

Copr. 1911, J. C. W. Co. EGGS OF NORTH AMERICAN BIRDS

1. Northern raven. 2. American raven. 3. American crow. 4. Great-tailed grackle. 5. Belted kingfisher.

6. Pileated woodpecker. 7. Nighthawk. 8. American magpie. 9. Blue [ay. 10. Whip-poor-will. 11. Meadowiark. 12. Black-billed cuckoo. 13. Kingbird. 14. Cowbird. 15 Baltimore oriole. 16. Crested flycatcher. 17. Skylark. 18. Ruby-throated hummingbird. 19. Bobolink. 20. Bed-winged blackbird.

---WINSTON'S= CUMULATIVEPatentis Nos. 916034, 916035, 916036 ENCYCLOPEDIA

A COMPREHENSIVE REFERENCE BOOK

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In Ten Volumes

ILLUSTRATED WITH COLORED PLATES MAPS. PHOTOGRAPHS AND DRAWINGS

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KEY TO PRONUNCIATION

Three methods are used to indicate the pronunciation of the words forming the headings of the separate articles:

- (1) By dividing the word into syllables, and indicating the syllable or syllables to be accented. This method alone is followed where the pronunciation is entirely obvious. Where accent marks are omitted, the omission indicates that all syllables are given substantially the same value.
- (2) Where the pronunciation differs from the spelling, the word is re-spelled phonetically, in addition to the accentuation.
- (3) Where the sound values of the vowels are not sufficiently indicated merely by an attempt at phonetic spelling, the following system of diacritical marks is additionally employed to approximate the proper sounds as closely as may be done:

```
cu, a long sound as in Fr. jeane,=
Ger. long ö, as in Söhne, Göthe

    as in fate, or in bare.
    as in alms, Fr. ame, Ger. Bohn=a
    of Indian names.

                                                                       (Goethe)
                                                               eu, corresponding sound short or medi-
um, as in Fr. peu=Ger. ö short.
a. the same sound short or medium, as
       in Fr. bal, Ger. Mann.
                                                                o, as in note, moan.
a, as in fat.
                                                                o, as in not, frog-that is, short or medium.
a, as in fall.
6, obscure, as in rural, similar to u in but, è in her: common in Indian
                                                               ö, as in move, two.
ü, as in tube.
       names.
                                                                u, as in tub: similar to è and also to a
ē, as in me=i in machine.
e, as in met.
ė, as in her.
                                                                n, as in bull.
                                                                u, as in Sc abune=Fr. 4 as in d4.
                                                                Ger. # long as in gr#n, B#hne.

th, the corresponding short or medium sound, as in Fr. but, Ger. M#ller.
i, as in pine, or as ei in Ger. Mein.
i, as in pin, also used for the short
sound corresponding to ē, as iu
French and Italian words.
                                                               oi, as in oil.
                                                               ou, as in pound; or as as in Ger. Haus.
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The consonants, b, d, f, h, j, k, l, m, n, ng, p, sh, t, v, and z, when printed in Roman type, are always given their common English values in the transliteration of foreign words. The letter c is indicated by s or k, as the case may be. For the remaining consonant sounds the following symbols are employed:

```
ch is always as in rich.

d, nearly as th in this = Sp. d in Madrid, etc.
g is always hard, as in go.
h represents the guttural in Scotch loch, Ger. nach, also other similar gutturals.

p, Fr. nasal n as in bon.
g represents both English r, and r in foreign words, in which it is gen-
```

Chi result than the state of th

VI

WINSTON'S CUMULATIVE ENCYCLOPEDIA

VOLUME III

Chicken-breasted, having that affections, a breast, Pop. 10,868. resulting from malformation or from carious disease or spinal weakness, in which

sternum or breast-bone.

Chicken-pox (varicella), an infectious disease mainly confined to children. It commences with feverishness, and an eruption of pimples, which speedily become blebs filled with clear fluid and as large as split peas. Within a week these dry up into dark-colored scabs, which within another two sorts—the ouried and the Batavian week have fallen off. The disease is never fatal, and has no evil results. A little opening medicine and a mild diet is all the treatment required.

Chicken-pox (varicella), an infection machinery, paper, etc. Pop. 25.401.

Chicory (chiko-ri; Cichorium), a genus of composite plants, including the two important species of Chicory or succory). The former, a native of the East Indies, is known under woo sorts—the ouried and the Batavian —both forming well-known salads by the blanching of their leaves. The O. Intibles or chicory is a common perential of the chicory of the composite plants, including the two important species of Chicory or succory). The former, a native of the East Indies, is known under both the chicory is a common perential of the Chicory in the Chicory i

Chick'pea, the popular name of Cicer grietinum, which grows wild along the shores of the Mediproducing a short, puffy pod with one or generally two small, wrinkled seeds. It is an important article in French and Spanish cookery, and the plant is cultivated in Europe, Egypt, Syria, India, Mexico, etc. When roasted it is the common parched pulse of the East. The herbage serves as fodder for cattle.

Chick'weed, the popular name of Stellaria media, order Caryophyllacem, one of the most common weeds in cultivated and waste ground in Europe, flowering throughout the year. It has a procumbent more or less hairy stem, with ovate, pointed

and are much frequented.

Chicopee (chik'o-pē), a town of Massa-chusetts, Hampden Counwards, giving rise to projection of the mouth of the Chicopee, 4 miles N. o. sternum or breast-bone.

Springfield, with manufactures of cotton,



Chicory (Cichorium Intybus).

less hairy stem, with ovate, pointed leaves, and many small white flowers. It is much used for feeding cage-birds, the lower part of which milky leaves which are very fond both of its leaves are sometimes blanched, and seeds.

Chiclana (chē-klā'nā), a town of spain, in Andalusia, 12 part of the plant is its long, fleshy and miles s. E. of Cadiz, built of snow-white milky root, which when roasted and stone, contains a magnificent hospital, ground is extensively used in Britain and has manufactures of linen, earthenware, etc. The sulphur baths, temperacoffee may easily be detected by putting sure 60°, are efficacious in cutaneous a spoonful of the mixture into a glass

chicoutimi (shë-kö-tëmë'), a town of Quebec province, Canada, on Saguenay River, at head of navigation. Pop. (1914) 6500.

Chieri (kë-ë/rē), an old town of North Italy, 8 miles E. S. E. of Turin, with a very large Gothic church, and manufactures of cotton, silk, etc. Pop. 15,454.

Chieti (kë-ā'tē), a town of Southern Italy, capital of province of same name, on a hill near the right bank of the Pescara. It is well built, is the see of an archbishop, and has manufactures of woolens, etc. Pop. 28,368.

(chig'ō), or JIGGER, a very curious insect (Pulez or Sar-Chigoe copsylla penetrans), closely resembling the common flea, but of more minute size, found in the West Indies and South America. It



burrows beneath the skin of the foot, and soon acquires the size of a pea, its ab-domen becoming distended with eggs. If these eggs remain to be hatched beneath the skin great irritation and even troublesome sores are sure

to result. The insect must be extracted entire, and with great care, as soon as its presence is indicated by a slight itching or tingling.

(chē-wä'wä), a city of Mexico, capital of the Chihuahua state of the same name, generally well-built, and supplied with water by a notable aqueduct. It is surrounded by silver mines, and is an important of the silver mines. pôt of trade. Pop. about 40,000.—The STATE is bounded on the N. by the United States and on the N.E. by the Rio Grande del Norte; has a healthy climate, and is rich in silver mines. Pop. 405,265.

Chilaw (chi-la'), a seaport town on the west coast of Ceylon, 45 miles N. by W. of Colombo, formerly a place of greater importance than it is now. Pop. about 3000.

Chilblains (chilblans) are painful inflammatory swellings, of a deep purple or leaden color, to which

of clear cold water, when the coffee will insupportable itching attends it. In float on the surface, and the chicory separate and discolor the water as it but in others it breaks and discharges a subsides.

Chicoutimi (shē-kö-tēmē'), a town of Quebec province, Canad cold avoided.

Childbirth. See Birth.

Child Labor. Only within quite recent years has the necessity for strict regulation under State and Federal laws been recognized in the matter of children's labor. It was as late as 1894 before the State of Massachusetts crystallized into law the demands of the social workers for an adequate measure of protection for the children employed in industries. This pioneer law limited the employment of children under thirteen in textile mills. Soon after, Connecticut and then Pennsylvania and New York followed passed highly protective laws. With the question of Child Labor is involved that of illiteracy, which is largely governed by the character of the legislation in the various States. In 1900 there were 510,678 illiterate children in thirteen States, in which relatively back-ward legislation existed, as compared with 19,269 such children in the remaining 39 States. The advocates of strict legislation urge the evil physical effects upon young children engaged in work for several hours daily and those which develop as a result in later years. The first broad consider-ation of Federal legislation was due to the Beveridge Child Labor Bill. This bill was substantially the same in principle as that passed by Congress in 1916, but it failed of passage. It was only in 1912 that a Children's Bureau was established in the Department of Commerce and Labor. The laws of the different States vary in detail, sensestly in the South they are less fagenerally in the South they are less fa-vorable, though in Tennessee and Louisi-ana, the restrictions on the employment of children are stricter than in some other Southern States. The general tendency of legislation has been to lessen the employment of children under fourteen. The chief objections raised to the Federal law of 1916 are based on the economic condi-tion of the cotton mill industry, which has been so largely developed in that section in recent years, and which it is claimed must have access to ample cheap labor to maintain itself in the face of advantages possessed by the mills of New England. The constitutionality of the Federal bill has been challenged and Judge Boyd, of the Federal Court of Viror a deep purple of leader color, to which begand. The constitutionality of the the fingers, toes, heels, and other extreme Federal bill has been challenged and parts of the body are subject on being Judge Boyd, of the Federal Court of Virexposed to a severe degree of cold. The ginla, on August 31, on the eve of the pain is not constant, but rather pungent Act's coming into operation, decided that and shooting at particular times, and an it was unconstitutional. The Woman's Council of National Defense has opened the Biobio, the Valdivia, Lontue, Maule, an active campaign to secure the potential Itata and Chuapa or Illapel. The surbenefits of the new legislation by an in- face is greatly diversified, but rises in ele-

rease of schools and the betterment of vation as it recedes from the coast and those established, by securing full-time approaches the Andes, along the waterschool, well-equipped teachers, and adeahed of which a great part of the bounquate provision for educating the illiterate dary runs. Some of the summits here children in rural areas.

Childebert (childe-bert), the name vation decreases towards the south. childebert (chil-de-bert), the name of three kings of the Vation decreases towards the south. Of three kings of the Childe and numerous other islands fringe wation of Clovis, 495–558; the second, a son of Clovis, 495–558; the second, a son of Siegbert and Brunehaut, 570–596; being particularly violent. In the Chilean the third, surnamed the Just, a son of Thierry I, 683–711.

Children's Bureau, a government bureau in the Department of Commerce and Labor, extablished by act of Congress in 1912, and placed under the management of Miss Julia C. Lathrop. Its purpose is to investigate and report to the Department of children and child life among all classes of people in the United States.

Childs, George W., American publisher, born in 1829; died in 1894. In 1864 he bought out a small Philadelphia paper, the Public Ledger, and during his lifetime made it the most popular newspaper of his city. He was widely known for his public spirit and philanthropy. His Personal Recollections were published in 1890.

Chili (chē'lē'), or Pe-chi-li, a northern province of China transparent of the copter of latitude southwards the south. Chila character of the copter mines are most numerous in the northern districts. Nitrate of soda or Chile saltpeter, is a great source of wealth. Coal is mined at several places. Though possessing many fertile tracts, a great portion of Chile is incapable of cultivation, being naked and mountainous. The province of Atacama is especially destitute of vegetation. From the Chila character of latitude southwards widely known for his public spirit and philanthropy. His Personal Recollections were published in 1890.

Chili (chê'lê'), or Pe-chi-li, a northern province of China, traversed by the Peiho and containing Peking, the imperial capital. Area about 100,000 sq. miles; pop. about 20,000,000.

Chili, or Chile (chê'lā, chil'li), a wifind the sides of the Andes clothed country of South America, extending along the Pacific with the sides of the Andes clothed country of South and flowers of the richest and most beautiful hues. In some of the northern discount from lat. 18' s., nearly to Cape Horn, and including Chiloé and many districts wheat and barley are the chief Fuego. It is bounded on the N. by Peru dant—apples, pears, apricots, peaches, on the N. E. and E. by Bolivia and the Argentine Republic, from which it is separated by the chief range of the Cordilleras. The spread of European plants has been rated by the chief range of the Cordilleras. The spread of European plants has been rated by the chief range of the Cordilleras. So great in some places as to crowd out native species, and cultivation is rapidly miles; area 307,620 sq. miles, divided into twenty-three provinces and one territory; long this farther. The wild animals miles; area 307,620 sq. miles, divided into twenty-three provinces and one territory; long, the chinchilla, coypu, deer, etc. population, about 5,000,000. By the war Cattle are raised in great numbers, from with Peru and Bolivia, which terminated 4000 to 20,000 being sometimes reared in 1882, Chile gained all the seaboard of on one ranch. The manufactures are of Bolivia, and annexed also the Peruvian little importance, but include cordage, provinces of Tarapaca, Tacna and Arica soap, copper wares, leather, brandy, etc. (the latter two for ten years, after which The commerce is increasing rapidly. By a plebiscite was to decide whether they far the greater part of the foreign trade should go to Chile or Peru. Chile itstill re- is with Great Britain. Mineral products tains them). The chief towns a rivers are numerous; the principal ones are of soda, the value of which alone was

\$22,500,000 in 1884 and \$75,000,000 in resulted in his overthrow. Jorge Montt 1910. The value of exports in 1912 succeeded him. In 1896 Federico Errawas \$139,878,201, and of imports \$122,-075,994, a total of \$261,954,195. Accounts are in pesos, the gold peso being the monetary unit, having a value of about 36 cents. In 1912 Chile's railway system had a total length in miles of 6738. Claim, a dispute with Argentina was settled. Ramon Barros Luco became president best regulated in South America. It is under a president elected for five years and a council of state. The legislature is composed of a senate elected for five years, and a house of deputies elected for three years. The estimated revenue for 1912 was \$193,261,000, the estimated expenditure \$375,147,000, with an estimated war strength of 250,000. The total debt, home and foreign, 1911, was \$636,822,000. The war strength of the army is 85,000. There is an efficient navy of 6 battleahing and cruisers, and a fleet of torpedo boats and submarines. The Chileans are mostly of Spanish or Indian descent. They are generally fond of agricultural pursuits, and possess a considerable amount of energy and enterprise. Schools and colleges (Chilled Iron, iron cast in metal have been established, and the extension and possess a considerable amount of en-ergy and enterprise. Schools and colleges have been established, and the extension of the benefits of education has been of established religion of Unite, but the members of other denominations are allowed to erect edifices in which to worship. The part of Chile lying s. of the river Biobio (or about lat. 38° s.) is inhabited chiefly by Indians. The Araucanians inhabit the region lying between the rivers Biobio and Valdivia, and long maintained their independence, till in 1882 they became subjects of the Chilean government.

Chile originally belonged to the lacas miles N.E. of Kansas City, with good of Peru, from whom it was wrested by railroad service. Has packing plant, the Spaniards under Pizarro and Almagro in 1535. From this period Chile continued a colony of Spain till 1810, when a revolution commenced, which terminated in 1817 in its independence. Chilling (chil'is), the fruits of the capsicum, used to make cayminated in 1817 in its independence. Chilling (chil'is) (chil'in gworth). which a revolution commenced, which terminated in 1817 in its independence. Several internal commotions have since occurred; but the country has been free from these compared with other South American states. A war, begun with Spain in 1865, led to the blockade of the coast by the Spanish fleet, and the bombardment of Valparaiso in 1866. In 1879 a war broke out with Bolivia and Peru, in reference to the rights of Chile in the mineral district of Atacama. This war was virtually finished in 1881, and the victorious Chileans gained a large accession of territory from both Bolivia and Peru. In 1891 an insurrection, headed by influential members of Congress, caused by dissatisfaction with President Balmaceda's administration,

Chilled Iron, iron cast in molds called in metal chills, of the benefits of education has been of where, on account of the rapid conducting late one of the constant aims of the government, elementary education being now on the surface than it would do if cast in gratuitous. The Roman Catholic is the sand. Chilled iron is whiter and has a established religion of Chile, but the memway.

Chillicothe (chil-e-koth's), a city of Ohio, county seat of Ross County, on the Scioto River, 50 miles from Columbus. Has manufactures of paper, shoes, pottery, etc., and was the capital of Ohio, 1800-1810. Pop. 14,508. Chillicothe, a city of Missouri, capital of Livingston Co., 87 bjects or the United government.

Chile originally belonged to the Incas miles N.E. of Kansas City, with good? Peru, from whom it was wrested by railroad service. Has packing plant, the Spaniards under Pizarro and Al-foundry, machine shop, etc. Pop. 6265.

Bonnivard, prior of St. Victor, Geneva, petual snow 2600 feet from the summit from 1530 to 1536. It has acquired in and upwards. In 1880 it was ascended terest from Byron's poem, The Prisoner to the top for the first time by Mr. E. of Chillon.

Chilo (ki'lo). See Chilon.

Chiloé (chēl-wā'), a province and a bishop are attached. island of Chile. The province Chimes (chims), a species of music, comprehends the island of Chiloé, together with a number of other islands, and a portion of the mainland. The bells, tuned agreeably to a given musicisland of Chiloé is for the most part cal scale. The hammers are lifted by covered with dense forests, but large levers acted upon by metallic pins, or tracts of it are still unexplored. The which is made to revolve by clockwork, exports consist chiefly of timber from and is so connected with the striking the forests of the island and the mainpart of the clock mechanism that it is land. The climate is healthy but very set in motion by it at certain intervals wet. Area of the province, 8593 sq. of time, usually every hour, or every quarter of an hour. The chime mechanism is sometimes so constructed that

Chimsera (ki-me'ra), a genus of car-tilaginous fishes. Almost the only known species is the *Chimora*



seas, and is sometimes called king of

Whymper.

Chimere (shi-mër'), the upper robe to which the lawn sleeves of

miles; pop. 91,022.

Chilognatha, Chilopoda.

Chilon (ki'lon), or Chilo, one of the Greece. He flourished about the beginning of the sixth century B.C., and was a native of Sparta, and one of the Ephori, of a fire or furnace escapes to the open or chief magistrates. A collection of his air. In this sense the first chimneys we sayings is extant.

Chimsera, Chimera (ki-mē'ra), in ages. The longer a chimney is the more Chimsera, Chimera (ki-mē'ra), in ages. The longer a chimney is the more sayings is extant.

Chimæra, Chimæra (ki-mē'ra), in ages. The longer a chimney is the more perfect is its draught, provided the fire breathing monster, the foreparts of is great enough to heat the column of whose body were those of a lion, the air in it, because the tendency of the middle of a goat, and the hinder of smoke to draw upwards is in proportion a dragon. Thus the name came to be used for an unnatural production of the heated air in a chimney and an equal column of external air. Smoky chimneys may be caused either by the presence of other buildings obstructing the curregular cu the only known species is the *Chimora* wind and giving rise to irregular curmonstrõea, which inhabits the northern northern of the fireplace and adjacent parts of the chimney. The first may generally be cured by fixing a chimney-pot of a particular construction. particular construction, or a revolving cowl, on the chimney top, in order to prevent the wind blowing down; in the second case the narrowing of the chimney throat will generally create a better draught.

Chimney-piece, the assemblage of architectural dress-

seas, and is sometimes called king of the herrings, and, from its two pairs of large teeth, rabbit-fish. There is but one gill-opening, and the tail terminates in a point, the fish having, on the whole, a singular appearance. It seldom exceeds 3 feet in length.

Chimborazo (chim-bō-rā'zō), a mountain of Ecuador, in the province of Quito, about 20 miles s. by w. of Quito; lat. about 20 miles s. by w. of Quito; lat. about 20 miles s. by the loftiest summit of the Andes, it rises to the height of 20,703 feet above the level of the sea, and is covered with per-

the orang, it has the hair on its fore-arm turned backwards, but differs from it in having an additional dorsal vertebra and a thirteenth pair of ribs. It walks erect better than most of the apes. It feeds on fruits, often robs the gardens



Chim; ansee (Troglodyte niger).

of the natives, and constructs a sort of nest among the branches. It is comnest among the branches. It is com-mon in menageries, where it shows much large and populous cities. intelligence and docility.

Physical Features.—Great part of the intelligence and docility.

China, REPUBLIC OF, a political division of Asia, extending from latitude 18° to 50° N., and from longitude 74° to 134° E., area 3,341,515 square miles, which is greater than that of the continent of Europe. It consists of China Proper (which now includes Manchuria), and the outlying dependencies of Sinkiang, Chinese Turkestan and Tibet. It is bounded N. W., N. and N. E. by Asiatic bounded N. W., N. and N. E. by Asiatic Russia, along a frontier extending some 6000 miles, E. by Korea and those parts of the Pacific known as the Yellow Sea and China Sea; S. and S. W. by the China Sea, French Indo-China, Upper Burma and the Himalayan states. It is narrowest in the extreme west. Chinese Turkestan, along the meridian of Kashgar (76° E.), has a breadth of but 250 miles. It rapidly broadens and for the greater part rapidly broadens and for the greater part of its area is over 1800 miles across in a direct N. and S. line. Its greater length is from the N. E. corner of Manchuria to the S. W. confines of Tibet, a distance of 3100 miles in a direct line. Its seaboard, about 5000 miles following the indentations of the coast, is wholly in China Proper. China Proper occupies the eastern and southeastern part of the republic, and including the three Manchurian prov-inces of Feng-tien, Kirin, and Hei-lung-chiang, is divided into twenty-one prov-

AREA AND POPULATION OF CHINA.

AREA AND FOR CEATION OF CHINA.				
Province	Area, sq.m	. Population		
Chekiang	36.680	17.000.000		
Chili	. 115,830	32,571,000		
Fokien (Fukien)	46,332	13,100,000		
Honan	67.954	25,600,000		
Hunan		23,600,000		
Hupeh		24,900,000		
Kansu	125,483	5.000,000		
Kiangsi		14,500,000		
Kiangsu	38.610	17,300,000		
Kwangsi	77.220	6.500,000		
Kwangtung	100,000	27,700,000		
Kwoichau	67,182	11,300,000		
Nganhwuy	54.826	17.300.000		
Shan-si	81.853	10,000,000		
Shan-tung	55,984	29,600,000		
Shen-si	75,290	8,800,000		
Sse-chuen	218,533	23,000,000		
Yun-nan	146,714	8,500,000		
Manchuria ,	363,700	14,917,000		
m-4-1 6 Ohi 4 3 6				
Total for China and Man-	1 000 515	221 100 000		
churia Sinkiang and Chinese Tur-	1,890,513	331,188,000		
	001 000	0.401.000		
kestan	981,800	2,491,000		
Manchurian Military Or-		1 700 000		
ganisation	• • • • • • •	1,700,000		
Other Dependencies	463,200	760,000		
Tibet	403,200	6,500,000		

Grand Total 3,341,515 342,639,000 Peking is the capital. There are many

country is not well known. The coast line forms an irregular curve of about 2500 miles. It is not deeply penetrated by gulfs, the only one of great extent being that of Pe-chi-le in the northeast, but numerous indentations of sufficient dimensions to form safe and capacious roadsteads are found in every quarter. It is characterized by a fringe of islands and islets, the largest of which are Formosa and Hainan. The Gulf of Pechi-le, the Yellow Sea and the China Sea wash the eastern and southeastern shores, and are subject to the destructive storms called typhoons. The inland shores, and are subject to the destructive storms called typhoons. The inland boundaries are formed mainly by Tonquin, Burmah, Tibet, and, on the north, partly by the Great Wall separating China from Mongolia, one of the most remarkable of human structures, being an artificial barrier 1500 miles long. Two-thirds of the interior are estimated to be mountainous. The general slope is from west to east, and the mountains are a continuation of those of Tibet and Central Asia. The great Kuen-lun range throws off branches, the Tsing-Ling, Futhrows off branches, the Tsing-Ling, Funiu-shan and Mu-ling, which, running eastward between the great valleys of the Hoang-ho and Yang-tse-kiang, traverse almost the whole breadth of China. Further north the Nan-shan branch of the Kuen-lun range runs under various

names (Kuliang, Alashan, Inshan, etc.) never fail to commit great devastation, along the northeast of China till it though happily they always give such rearches the frontier of Manchuria, north tof Peking. The third great mountain system of China is in the southeast, he Ta-y-ling, and Pu-ling stretch on the south side of the Yang-tse-kiang all the way from the highlands of Yunnan to the eastern seaboard. Between these mountain systems, and following are very extensive coal-fields, though the courses which may be roughly described as parallel, run the two great rivers of China, the Hoang-ho and the Yang-tse-tributaries, the most deserving of the Productions.—China is well supplied with minerals, including gold, silver, copper, iron and other metals, and there are very extensive coal-fields, though the quantity raised from them is comparatively small. Salt is abundant, and there are inexhaustible beds of kaolin, kiang. Here lie the central and richest provinces of China. On both sides of the lower Hoang-ho is an immense delta or porcelain earth. Among animals it is provinces of China to both sides of the country; many of them plain, consisting generally of a deep alluvial soil of unparalleled fertility. As they approach the seacoast the two southwest the tiger, the rhinoceros and rivers are connected by the Grand Canal, clephant are found; bears are common 700 miles in length, thus completing a many parts; other carnivora are the magnificent system of inland navigation. Camels and elephants are used in a document of the courter of the country is many of them those of Europe. In the south and they approach the seacoast the two courses several times, the is subject to tremendous and disastions floods. Beard are the Se-kiang in the south, of considerable size, but still more commercial immensely increased by artificial bouchure Canton, Hong-Kong and Ma-mans. As regards the floor of China.

are the size, but still more commercial as well as on the coast, the natural supply importance, having at or near its embeing immensely increased by artificial bouchure Canton, Hong-Kong and Mameans. As regards the flora of China, cao; and the Pie-ho, which, though much it is tropical in the south (cocoa and smaller, forms a waterway between sago palms, banana, pandanus, etc.). Peking and the Gulf of Pe-chi-le. There subtropical farther north, and still farare a number of lakes, mostly of no great the north a number of plants and trees size; the largest is Tung-ting, near the prevail identical with or closely akin center of China, with a circumference of the surface of Northern China is the deposit of loess, a brownish-yellow earth of great fertility, which covers an immense area both of mountain and valley, and enables agriculture to be successfully carried to the height of 7000 or substituting the trees. Oaks, the chestnut, and enables agriculture to be successfully carried to the height of 7000 or substituting the trees abound. Azaleas are exceedingly climate.—The greater part of China numerous; other flowering plants are belongs to the temperate zone, but it the camellia, rose, passion-flower, cactus, has what is called an excessive climate. At Peking in summer the heat ranges and varied. The soil, especially of the from 90° to 100° in the shade, while the country comprising the two great river resisted and the cast, the natural supply being immensely increased by artificial supply increase At Peking in summer the heat ranges and varied. The soil, especially of the from 90° to 100° in the shade, while the country comprising the two great river winter is so cold that the rivers are usubasins, is extremely fertile, and agriculally frozen from December to March. ture has always been held in high venture reaches 100°, and the minifood of the people, is the staple cropmum falls at least to 20° below freezing. The rich alluvial plains which cover a point (12° Fahr.). In the south the great part of the surface are admirably climate is of a tropical character, the adapted for its culture, and by careful point (12° Fahr.). In the south the great part of the surface are admirably climate is of a tropical character, the adapted for its culture, and by careful summer heat rising to 120°. Here the management yield amazing crops. In southwest and northeast monsoons blow the north there is a variety called drywith great regularity, and divide the soil rice, which is cultivated like any year between them. Among the greatest other cereal. Wheat, barley, and millet scourges of the country are the dreadful are the other chief grain crops. Other gales known as typhoons, from the Chi-crops are maize, buckwheat, a great vapese Ta-fung, or 'great wind.' They riety of beans, peas and pulse generally, sugar-cane, tobacco and vegetables swarming with junks, barges, and boats in endless variety, including potatoes, of all sizes. Roads, however, are few turnips, etc., and at the ports the best and bad, though railways recently have European and American vegetables. Varieties of the cabbage tribe are extensively cultivated for the oil extracted and the telephone has been introduced. from the seeds. Three plants of the greatest economical importance to China sent all over the provinces at a uniform are the mulberry, cultivated to provide food for silkworms, cotton and tea, the

The embroidery of silk is carried on to The embroidery of silk is carried on to the new currency system (February 10, an amasing extent. Cotton goods are 1914) only the central government has the also largely made, though great quanpower of minting money. The system intities of European and American manucludes the silver yuan or dollar, half yuan, factures are also imported. Flax is not 20-cent piece, 10-cent piece (chio); the grown, but a good substitute for it is nickel 5-cent piece; and the copper 2-found in the fibers of two or three plants, cent, 1-cent (fen), 5-li, 2-li and 1-li pieces. from which the beautiful grass-cloth, People.—The Chinese belong to the rrom which the beautiful grass-cloth, similar in appearance to linen, is extensively woven. Woolens are made only features, as represented in the genuine to a limited extent. The porcelain of Tartars, are considerably softened. They China has been famous from the earliest periods, and the manufacture of the finest forms of it was long known to the Chinese alone, though their productions

received an impetus. Telegraphs are being rapidly constructed by the government and the telephone has been introduced. Under a new postal system letters can be sent all over the provinces at a uniform rate. Prior to 1842 China rigorously opposed foreign trade; but the number of treaty ports has been gradually increased. food for silkworms, cotton and tea, the last formerly regarded as exclusively a treaty ports has been gradually increased, Chinese product. The opium poppy was extensively grown until recent years, when awakened public sentiment enforced legislation to prohibit its cultivation.

Manufactures.—In arts and industrial industria Manufactures.—In arts and industry the Chinese have made considerable soya bean; the main imports, clothing, progress. One peculiar feature in their tobacco, metals and metal goods. Tea, processes is the general absence of matchinery, and the preponderance of matchinery, the staple of China's export trade, has suffered a decline through until the list of exports. The total exports and imports usually amount to more anywhere. Everybody wears silks; it is that has \$400,000,000. In the year 1911 the exports amounted to \$377,000,000; the matchinery and the preponderance of matchinery. The staple of China's exports and imports usually amount to more anywhere. Everybody wears silks; it is that has \$400,000,000. In the year 1911 the exports amounted to \$377,000,000. The usual unit dresses of the opularity and the list of exports and imports usually amount to more anywhere. Everybody wears silk to the new currency system (February 10, 1914) only the central government has the

finest forms of it was long known to the Chinese alone, though their productions are now surpassed by those of Europe. In lacquered ware the Chinese continue unsurpassed. In working in metals they have only attained to mediocrity. The metallic products most deserving of notice are gongs, mirrors, statuettes in copper and bronze, and various kinds of carved, chased and filigree work, both in gold and silver. In a great number of minor articles the workmanship is exquisite—fans, card-cases, seals, combs, hard for the support of their families, chessmen of wood, ivory, mother-of-pearl, tortoise-shell, etc. Paper is made of foreign intercourse has not debased them exhibit an article she workstance, and the approach of their families of great variety of substances, and the art of making it—like articles are should approach to the support of their families. pearl, tortoise-shell, etc. Paper is made of foreign intercourse has not debased of a great variety of substances, and the art of making it—like various others—the of making it—like various others—the patriarchs. The Chinese use great politeness in their intercourse with each other: but there is perhaps. Communication, is of incalculable magnitude, the rivers and canals literally sive expressions in their intercourse with cach other; but there is perhaps a want of their but there is perhaps a want of trankness and sincerity. They scrupp communication, is of incalculable magnitude, the rivers and canals literally sive expressions in conversation. Gambling is a universal vice. Drunkenness has hitherto been rare among them, though the habit of opium-smoking has become much extended. But, with many vicious characteristics, the Chinese are preserved from degeneration by their universal frugality and thrift. Hard work, done in the most uncomplaining way, has become second nature with them. Filial plety is also a striking feature of their character, and is, in fact, the principle upon which Chinese society is constituted. They have chambers set apart for the They have chambers set apart for the worship of their ancestors, where religious ceremonies are regularly performed. In the traditional Chinese social system four



Chinese Mandarin, Lady, Boy, Female Attendant, Soldier and Bird's-nest Seller.

highly esteemed than birth.

Language and Literature. The Chinese is the most important and most widely spread of the so-called monosyllabic languages of Eastern Asia, in which each word is uttered by a single movement of the organ of speech. There is no alphabet, each word being represented by a single symbol or character. These written characters appears to have been original. almost entirely disappeared, and many of the symbols are formed of what seems to be an arbitary combination of lines, or books and a few others, on which an

In writing or printing the characters are arranged in vertical columns, to be read from top to bottom. A new alphabet for China is significant of the present spirit of progress. The old system of writing required the student to memorise no fewer than 8000 ideograms. Steps were fewer than 8000 ideograms. Steps were taken some time ago to construct a phonetic alphabet, the task being entrusted to a learned committee composed of Chow-Hi-Chu, the Secretary of the Chinese Legation at Rome, the adjunct secretaries Wan and Chou, and Solonghello, professor of Chinese and Japanese at the School of Oriental Languages in Naples and one of the greatest polyglots Naples and one of the greatest polyglots in the world. These

gentlemen have studied all known alphabets and combined them to form one which shall represent every sound in the Chinese tongue. The alphabet adopted рA them consists of forty-two characters, of which twenty-three are vowels and nineteen are consonants. With these characters it is possible to write all the words used in the vulgar tongue in any part of China. The art of making paper is said to have been known in the first century after Christ; printing from wooden blocks in the seventh or eighth century, hundreds of years before these valuable

classes are distinguished: the literary, the agricultural, the artisan and the trading class. Hereditary nobility in the extensive. It is remarkable for its antiquity, for the variety of subjects presented, for the accuracy of its historical statements and for its ennobling ideals. for convenience the literature is cuvined into four classes—first, the Chinese classics, together with lexicographical and philological work; second, histories of various kinds; third, philosophy, religion, the arts and sciences; fourth, poetry and works dealing with poetry. As literary works dealing with poetry. As literary eminence has been for ages the sure aveten characters appears to have been originate the literation and offices of inally hieroglyphics or rude copies of the state, the literati have been the the object designed to be expressed by gentry, the magistrates, the governors, them; but the hieroglyphic features have the negotiators and the ministers of almost articles of the state of t China.

The Chinese classics are the Confucian are built up of other symbols combined, amount of painstaking commentary has China China

China herself and of the few foreign peoples with whom she has had any intercourse; the works of the third class are those of the literati of many ages and inthose of the literati of many ages and include the works of Taoism and Buddhism; the poetry is rich in ballads, lyrical and descriptive pieces, eulogies and elegies, but contains no great epic. Some of the historical romances and novels are of very high order, although fiction has never been regarded by the Chinese as an integral part of literature. Chinese as an integral part of literature proper.

Education. Persistent missionary zeal and the necessity of military reorganization must be given the credit for recent progress in education. Until 1905 the time-honored study of the Chinese classics time-honored study of the Chinese classics formed the only passport to State employment, and these were therefore the textbooks in general use. Gradually, however, European methods supplanted Chinese. One of the first problems of the new republic was to adopt a sound educational system, and in 1912 the Ministry of Education summoned a conference of teachers and educators, upon the recommendations of which the present system is schools are also provided, these to be controlled by the Ministry of Education. The plan includes four government universiplan includes four government universities—at Peking, Canton, Nanking and Wu-chang, with courses in literature, science, medicine, law, commerce, agriculture. Education is made compulsory and emphasis is laid on the education of girls, on manual training and hygiene, and on the observance of Sunday as a school holiday.

Religion. The chief religions in China are Confucianism, Taoism and Buddhism, the last of latest origin. Among the great masses of the people a form of Buddhism prevails, or a curious mixture of religious ideas and forms. Attempts to introduce Christianity were made by the Nestorians as early as the 6th century, but it was not until the arrival of the Jesuits with Father Ricci in 1582 that the faith gained any foothold. The first Protestant minister was Robert Morrison, who arrived in 1807. Christian missions, both Roman Catholic and Protestant, are established in every province of China, and freedom to embrace the Christian faith has been guaranteed by the Chinese government since 1860. The number of Roman Cath-

been expended; the histories are those of olics in China is estimated at 1,000,000; China herself and of the few foreign peothe number of Protestants at 250,000. In 1914 a bill prescribing the worship of lieaven and of Confucius was passed by the Administration Council, thus estab-

lishing a state religion, though not pre-cluding freedom of worship.

Government. The Chinese government, based upon that of the family, was for many centuries an absolute monarchy. The emperor united in his person the attribute of supreme magistrate and sovereign pontiff, and as the 'Son of Heaven' was in theory accountable only to heaven. For more than 2000 years he was the supreme head of the state, legislating by edict in matters great and small. In the seventeenth century the Ming Dynasty was overcome by the Manchus of the north. The traditions of the old authe north. The traditions of the old autocracy were preserved by the Manchus, but for many years previous to the revolution of 1911, the Civil Service had become the real power in the empire, while the central authority was but little exercised over the provincial and district administration. Many reforms were initiated or promised in the lest few weers of the comtration. Many reforms were initiated or promised in the last few years of the empire; an executive body was created and a legislative body promised. By the revolution of 1911–12 the autocracy of the required to establish primary schools, which, with the 'middle' schools, are to be controlled by the provinces in which government. The executive power is they are located. Technical and normal schools are also provided, these to be controlled by the Minister of the second training and district administration. Many reforms were initiated or promised in the last few years of the empire; an executive body was created and a legislative body promised. By the revolution of 1911–12 the autocracy of the empire; and the power of the bureaucracy were merged into a republican form of they are located. Technical and normal vested in a president and district administration. Many reforms were initiated or promised in the last few years of the empire; an executive body was created and a legislative body promised. By the revolution of 1911–12 the autocracy of the empire; and executive body was created and a legislative body promised. By the revolution of 1911–12 the autocracy of the empire; and executive body promised. By the revolution of 1911–12 the autocracy of the empire; and executive body promised. By the revolution of 1911–12 the autocracy of the empire; and executive body promised. By the revolution of 1911–12 the autocracy of the empire; and executive body promised. By the revolution of 1911–12 the autocracy of the empire; and executive body promised. By the revolution of 1911–12 the autocracy of the empire; and executive body promised. By the empire; and executive body promised in the last few years of the empire; and executive body promised in the last few years of the empire; and executive body was created and a legislative body promised. were merged into a republican form of government. The executive power is vested in a president and vice-president, a premier and ten secretaries of state; the legislative in an Advisory Council of 128 members (five from each of the twenty-five territorial divisions and one from the district of Koke News district of Koko-Nor).

Railways. Doctor Sun Yat Sen, for-merly provisional President of the Chi-nese Republic, has been authorized by the nese Republic, has been authorized by the new Government to organize a corporation for the construction of 70,000 miles of railways in China. In 1875 there was not a mile of railway in China; in 1912 the total mileage was 8000, of which some 6000 miles were operated and 2000 miles more projected. About two-thirds of the mileage is under foreign control—one-third in the hands of Russia and Japan, another third divided among France Acceptage. another third divided among France, Germany, England, Belgium and the United States. Of lines built chiefly with Chinese capital by Chinese engineers, the most significant is the Peking-Kalgan Frontier Railway, built under the direction of a Chinese graduate of Yale. The valuation of all lines not owned by China. the sum which China would be obliged to pay were the Government to secure control, is estimated at \$280,000,000, or about one-third of the outstanding debt of

the republic.

China China

and Navy. In the matter of In his reign the great wall (which see), Army and Navy. In the matter of In his reign the great wall (which see), armed strength China is far behind Eu-designed as a protection against maropean nations. The Chinese military rauding Tartars, was begun in 214 B.C. force consists of a peace strength of Buddhism was introduce in 65 A.D. 180,000; reserve of 100,000, making a Subsequently the empire broke up into total of 280,000 war strength. Under three or more states, and a long period English officers their training and disconficient of confusion and weak government encipline have much improved of late, and sued. In 960 a strong ruler managed to the newest kinds of rifles and cannons consolidate the empire, but the attacks have been imported from Europe. Within of the Tartars were now causing much a few years China will have a standing trouble. In the thirteenth century the English officers their training and displace place in proper their training and displaced in 1960 a strong ruler managed to the newest kinds of rifles and cannons consolidate the empire, but the attacks have been imported from Europe. Within of the Tartars were now causing much a few years China will have a standing the trouble. In the thirteenth century the army of well-drilled and well-armed soldiers 350,000 strong, and this army will obtained to take care of its interests in the most to take care of its interests in the most approved modern style. The soldiers are have being taught to read of the soldiers are have been established, where officers are have been established that thought are have been established and have been established and have have been formed by Woo-warg, and laster for the building of the docks are also as the have been founded by Woo-warg, and have been founded by the fast India compared to the provided have been founded by

period of civil war the Tai-ping rebellion emperor Kwang-Seu, who had succeeded was at length suppressed in 1865, chiefly as a child in 1875, died, and with him the by the exertions of General Gordon and dowager empress Taze Hsi An, who for other British and American officers at many years had been the actual ruler the head of the Chinese army. In October, 1856, the crew of a vessel belonging to Hong-Kong were seized by the gency of Prince Chun, his father.

Chinese. The men were afterwards

Under the heading Government the im-Chinese. The men were atterwards of the bear portant legislative events of 1910 have portant legislative events of 1910 have logy was refused by the British. The been given. In 1911 a series of historiday of arbitration between strong and cal events took place of so momentous weak nations had not yet come. A war a character as to call for more extended with China commenced, in which the description. The discontent with Manogy was refused by the British. The been given. In 1911 a series of historiday of arbitration between strong and weak nations had not yet come. A war a character as to call for more extended with China commenced, in which the war ended in 1858 with the concession the Tai-ping rebellion, now made itself of new advantages by China, but it broke out again a year later and in 1860 the British and French forces occupied Peking, this being followed by the ruthless destruction of the summer in this direction in the spring of 1911, palace of the emperor. There was a second revolt that began in 1864, continuing until 1868. War was declared in 1910, but which assumed the positioning until 1868. War was declared in 1910, but which assumed the position of the war to an end in April, 1895. Corea was declared independent, Formous ceded to Japan, and China was forced to pay a very large war indemnity. Trouble of a different kind came in 1900, when an organisation of Chinese called the Boxers, infected by the general hatred of foreigners by the people, and apparently secretly instigated by the government, attacked the embassies in Peking. The unwarranted occupation of Chinese territory by Germany, Great Britain, France and Russia, may the southern province of Szechuen, its have been an inspiring cause of this authorities took no steps to suppress the of nationalising the railways and build-outbreak, an army of rescue, composed of the minauthoriuses took no steps to suppress the or nationalizing the railways and build-toubreak, an army of rescue, composed of ing them with the aid of foreign loans, troops of the various powers, marched upon and took Peking, rescuing the ministers and holding that city until China had agreed to pay a large indemnity and to punish the principal offenders. The indemnity amounted to the enormous ese ascendency. The leaders were very sum of \$337,000,000, an exaggerated amount of which the United States remitted its share some years later, much to the gratitude of China. Russia had occupied the Chinese province of Mandocupied the States remitted its share some years later, much monarchy by a republic was openly to the gratitude of China. Russia had occupied the Chinese province of Mandocupied the States remitted its share some years later, much monarchy by a republic was openly broached. City after city was taken by China south of the Yang-tse-Kiang was inclination to restore it led to the great in their hands. The government, dismayed by the growing revolt, hastily Russian defeat. During this recent period the spirit of reform and progress but the rebellion went on. new cities above spoken of was active in China, the telegraph became a common need, were occupied, many of the imperial troops joined its ranks, and the fiest many railroads were built or projected, and the ancient empire showed a promounced purpose to adopt the institutions of the western world. In 1908 the

Part of the city burnt. At the end of trials have been made with it as a sub-November the contest centered around ject of manufacture. Recently considite city of Nanking, in which a similar massacre and configration by the imperialists had taken place. Yuan Shikai, a man of striking ability and the incepted the post of prime minister, and recepted the post of prime minister, and mixed prices are supplied to the post of prime minister, and make of it. Hitherto, however, its high price, owing to the difficulty of preparations ground. The insurrection also was ing it in a suitable form for manufacengineered by men of great ability, among them Wu Ting Fang, former Chinese sufficiently cheap process of preparation minister to the United States. Nanking, its said to have been recently invented. The province of Shan-tung, of which Canton is said to have been recently invented viceroy, and Yuan Shi-Kai, apparently it partly forms the northern boundary, hopeless of saving the Manchu dynasty, Its western end is in the deserts of the governmental problem. On February 12, 1912, the Manchu dynasty abdicated and hollow, and avoids no inequality of the proventionary delegates at Nanking and hollow, and avoids no inequality of the proventionary delegates at Nanking and hollow, and avoids no inequality of the proventionary delegates at Nanking and hollow, and avoids no inequality of the proventionary delegates at Nanking the provention at Nanking for the purpose of seeking a satisfactory solution of elected as provincial president of China, in the northern boundary. Noveless of the governmental problem. On February 12, 1912, the Manchu dynasty abdicated, the revolutionary delegates at Nanking the province of the governmental problem. On February 12, 1913, China definitely assumed the House of Parliment—the House of Representatives with 596 members and the Senate with 274 members. The company of the province of the governmental problem in the northern boundary was president of the republic. However, the province of the governmen ioined the nations in war with Germany, added some perfume—a little musk or camphor. The mass is then made into camphor. The mass is then made into acomposite plant, hardy and free flowering. See Asters.

China Grass, Boekmeria nivēa, a plant of the nettle family, a native of Southern and Eastern Asia and the Asiatic islands, and now more or less cultivated in many other more or less cultivated in many other bing. The color it gives on paper should be pure black and homogeneous, and if possesses most valuable properties, and water be passed over it it should not run or become streaky. It is indelible by ordinary solvents, but may be resents unusual resistance to the effects of moisture, and is fine and silky in appearance. As to its full capabilities these are hardly as yet known, though many ica, Nicaragua, 20 miles northwest of

China Rose, the name given to a number of varieties of garden rose chiefly derived from Rosa indica and R. semperflorens, both natives of China. Also a name sometimes given to Hibiscus rosa sinensis, one of the mallow tribe, common in China and the East Indies, and an ornament in hot-

China Sea, that part of the North Pacific Ocean bounded N. by Formosa, N. w. by China, w. by Anam and the Malay Peninsula, S. E. by Borneo, and E. by the Philippines. It contains numerous islands, receives several considerable rivers, and forms the important Culfer vers. portant Gulfs of Siam and Tonquin.

Chi'na-ware, porcelain, the finest and most beautiful of all the kinds of earthernware, so called from China being the country which first supplied it to Europeans. When broken supplied it to Europeans. When oroken it presents a granular surface, with a texture compact, dense, firm, hard, vitreous and durable. It is semitransparent, with a covering of white glass, clear, smooth, unaffected by all acids excepting the hydrofluoric, and resisting uninjured sudden changes of temperature. For the

sudden changes of temperature. For the process of manufacture see Pottery. China Wax, a sort of wax deposited by insects on a deciduous tree with light-green, ovate, serrated leaves, cultivated in the province of Si-chuen (Ssu-chuan) in Southwestern China. The insects, a species of coccus, are bred in galls which are formed on a different tree, an evergreen (a species of Ligustrum or privet), and these galls are transported in great quantities to the districts where the wax trees are grown to the branches of quantities to the districts where the wax trees are grown, to the branches of which they are suspended. Having emerged from the galls the insects spread themselves over the branches, which gradually become coated with a white, waxy substance, reaching in 90 or 100 days the thickness of a quarter of an inch. The branches are then lopped off and the wax removed. It is white in color and is chiefly made into candles; it melts at 160°, whereas tallow melts it melts at 160°, whereas tallow melts at about 95°.

Chinch, the popular name of certain fetid American insects, genus

Leon, connected by railway with the Also applied to the common bedbug, port of Corinto, and carrying on a considerable trade. Pop. about 12,000.

China Root, the root or rhizome of Smilas China, a climbing shrubby plant closely allied to saraparilla, for which it is sometimes used. ic, arid, and destitute of vegetation; and China Rose, the name given to a the coasts bold and difficult of access. Immense deposits of guano used to exist Immense deposits of guano used to exist here, but are now exhausted. Guano from these islands began to be imported into Europe on an experimental scale about 1832, and the trade rapidly grew into importance. The Peruvian government retained the monopoly of the export, and made it one of the chief sources of its revenues.

of its revenues.

Chinchilla (chin-chil'a), a genus of S. American herbivorous rodents very closely allied to the rabbit, which they resemble in the general shape of the body, in the limbs being longer behind than before, in the conformation of the rootless molars, and by the nature of the fur, which is more woolly than silky; but differing from the rabbit in the number of their incisors and molars, in a greater length of tail,



Chinchilla (Chinchilla laniaera).

and also in having broader and more rounded ears. C. lanigera, a species about 15 inches long, is covered with a beautiful pearly-gray fur, which is highly esteemed as stuff for muffs, pelisses, linings, etc. The chinchilla lives gregariously in the mountains of most parts of South America, and makes numerous and very deep burrows. It is of a gentle

nature and very sportive.

Chinese Exclusion. The rapid increase Chinese immigration into the United States and the bitter opposition aroused by it among the laboring classes in Cali-Rhyparochromus, resembling the bed-fornia, led to a treaty with China in bug, very destructive to wheat, maize, 1880, partly restricting this immigration. etc., in the Southern and Western States. As the number of Chinese in this coun-

try rapidly increased in the following Rubiacea, years, a law absolutely prohibiting immiclimbing shrubs, with funnel-shaped, gration was passed by Congress in 1888. yellowish flowers; fruit a white berry A similar policy of exclusion exists in with two seeds. The bark of the root of some other countries, such as Australia C. angnifuga is a violent emetic and purand South Africa. This policy of exclusion has recently been applied by treaty Chioggia to Japanese laborers.

to Japanese laborers.

Chingleput (ching'gl-put), or Cheng-goon islands of the Adriatic, 15 miles from Alpat, a coast district, Venice. It is built partly on piles, and and its capital, Hindustan, presidency has some handsome edifices. Its harbor of Madras. The district, which lies is fortified, and it has ship yards, fishers. of Arcot and Madras—area, about ies and a coasting trade. Pop. 26,250. 2842 square miles—has generally a bad Chipmunk, Chipmunk, the popusoil, broken up frequently by granite soil, broken up frequently by granite rocks. Pop. 1,312,122. This tract of country was in 1750 and 1763 obtained by the East India Company from the Nabob of Arcot. The town is 15 miles Thomas Chippendale and his son in the w. from the Bay of Bengal, and has a pop. of 10.551.

Chin-kiang (chin-kē-āng'), or TCHANG-KIANG, a city, China, province of Kiangsu, right bank of the Yang-tse-kiang, near the junction of the Imperial Canal; one of the British treaty ports, advantageously situated for trade. In 1842 it was taken by the British, after a determined resistance on the part of the Manchu garrison. It suffered severely in the Tai-ping rebellion. Pop. est. about 168,000.

Chinoline (kin'o-lin; CoH7N), an oily liquid obtained by distilling quinine with potash and a little water, or by the dry distillation of coal. It is used in medicine as an antiseptic and as a remedy in intermittent fevers,

Chinon (chē-nōn), a town in France, dep. Indre-et-Loire, on the Vienne, 28 miles s. w. of Tours. Rabelais was born in its vicinity. Pop. (1906) 4071.

Chinook Winds (chin'ok), warm westerly winds experienced in some parts of the western United States.

Chinsura (chin-su'ra), a former town of Bengal, on the Hugli, now part of the city of Hugli. It was the chief Dutch settlement in Bengal and was ceded to the British in 1824. Chintz, cotton cloth or calico printed with flowers or other devices in various colors and generally glazed.

Chiococca

consisting of small.

(ke-od'ja), a seaport town in Italy, on one of the la-

eighteenth century, and since frequently copied. It is distinguished by elaboration Chiniot (chin'i-ot), a town of Hindustan, in the Punjab, near the Chenab. Pop. about 15,000.

Chinkapin (chink'a-pin), the American dwarf chestnut. See content and though solidly built gives a general effect of lightness. The chairs are of great variety and many of them are very can dwarf chestnut. See cabriole leg from Holland, the claw and ball foot of the Orient, the straight, square Georgian leg, the lattice-work

square Georgian leg, the lattice-work Chinese leg, the fret-work Gothic leg, etc. The chair-backs are equally varied.

Chippenham (chip'nam), a municipal and parliamentary borough of England, Wiltshire, 12 m. N. E. of Bath, on the Avon. Pop. 5332.

Chippewa (chip'e-wä) Falls, a city of Wisconsin country seat of Chippewa Co., 12 miles N. E. of Eau Claire. The Chippewa River supplies waterpower, which is employed to furnish waterpower, which is employed to furnish electrical power for shoe factories, lumber interests, etc. Pop. 8893.

ber interests, etc. Pop. 8893.

Chippewayans (chip'pe-wā-anz), a race of Indians in the northwest territories of Canada.

Chippeways (chip'e-wāz), or OJIB-ways, a tribe of North Ways, a tribe of North American Indians, United States and Canada. They are distributed in bands round both sides of the basin of Lake Superior, where they once owned vast tracts. They are of the Algonquin stock, tall, and active, subsist chiefly by hunting and fishing, and number about 18,000.

Chipping Sparmy (Spizella socio

Chipping Sparrow (Spizella socialis), a common N. American bird, some five or six inches long.

Chipping-Wycombe. See. combe. Chiquimula (chi-ki-mo'la), a de-partment of the Cens and generally glazed. tral American State of Guatemals; area (kī-ō-kok'ka), a genus of 4000 sq. miles. Pop. 65,000. Its capital,

tropical plants, nat. order of the same name, has about 4000.

Chiquitos (chi-ke'tōs), an Indian peo- the channels. There are a number of ple of Bolivia, about the chiropractic schools in the United States, headwaters of the Madeira and Para- including the Palmer School at Davenguay. They number about 22,000, dis- port, Iowa.

the stems of Agathôtes Chirata (or mining region. Pop. 9000.

Ophelia Chirata), a gentianaceous plant from the north of India. It is similar in its medicinal properties to gentian.

Chiriqui (chē-re-kē'), a district in Place) Napoleon III lived after the Panama, Central America.

It is naturally very fertile, and has good harbors both on the Caribbean and Pacific coasts. The name is also given to a lagoon and an archipelago on the coast of this state. Pon. shout 40.000.

of this state. Pop. about 40,000. Chiromancy (ki'ro-man-si). Cheiromancy.

Chiron (kl'ron), the most famous of the Centaurs, a race fabled ner, London. Pop. (1911) 38,705.

as half-men, half-horses. He lived at the foot of Mt. Pelion in Thessalv and Chiral drug (chit-al-drug). as half-men, half-horses. He lived at the foot of Mt. Pelion in Thessaly, and was celebrated through all Greece for his wisdom and acquirements, particularly for his skill in medicine and music, and the greatest men of the time—fortifications constructed by Haider Ali.

Æsculapius, Jason, Hercules, Achilles, Pop. 5792. etc.-were represented as his pupils.

Chironectes. See Cheironectes.

ties or excrescences of the hands and feet. treatment with different solvents to re-Chiropractic (ki'rō-prak-tik), a meth-move inorganic matter, fat, etc. It is od of treating disease, solid, transparent and horny. defined by its practitioners as the study and application of a universal philosophy of biology, theology, theosophy, health, ing the only instance known of a mollus-disease and death. Mechanically it consists in adjusting by hand (hence the name) all subluxations of the 300 articuated. especially those of the spinal column, for the purpose of permitting the re-creation composed of eight pieces, the animal ad-of all normal cyclic currents through hering to rocks or stones after the fash-nerves that have been impinged. The first ion of the limpet. chiropractic adjustment of vertebrae was made in September, 1895, by Dr. D. D. made in September, 1939, by Dr. D. B.

Palmer but the method was not developed s. E. of Bengal, having the Bay of Benuntil 1903, when his son, B. J. Palmer, gal on the w.; area, 2567 sq. miles; pop. D. C., worked out a well defined system 1,355,250. The level lands, chiefly on of philosophy and practice. Chiropractic the coast, and the valleys, are very feras based upon the hypothesis that man is tile. A considerable majority of the aspiritual being as well as mechanical inhabitants are Mohammedans. Chittanad chemical, and claims that it is the inhabitants are Mohammedans. Chittanad Chilosophy and practice within the Song is also the name of a commission. Innate Intellectuality residing within the gong is also the name of a commission-body of the patient that does the healing; ership or division of Bengal. Area, the mechanical adjustments simply open 12,118 square miles; pop. 4,787,781.—

by the Jesuits.

Chiru (che'ro), Antilope Hodgsoni, a fine large species of anteChiragra (ki-rag'ra), that species of lope found in Tibet, somewhat larger stiffens the joints of the hand.

Chiratta (ki-rat'ta)

stiffens the joints of the hand.

Chiretta (ki-ret'ta), or Chira'ta, an Indian bitter derived from the stems of Agathotes Chirata (or mining region. Pop. 9000.

Chitin (kl'tin), the chief tissue-forming ingredient of the wingcases of insects and the shells of crabs Chiropody (kI-rop'o-di), the art of and other crustaceans. From these treating diseases, callosisties or excrescences of the hands and feet. treatment with different solvents to re-

> Chitons (k'tonz), Chitonidae, a family of gasteropods, afford-The shell in the typical genus Chiton is composed of eight pieces, the animal ad-

Chittagong (chit'a-gong), a district on the Hindustan, in the

The city of Chittagong, chief town of the prepared himself by confessing, fasting,

Chitteldroog. See Chitaldrug.

Chiusa (kē-5'sā), two Italian towns, Chivasse one in N. Italy, province Cuneo, pop. 5728; the other in Sicily, Pop. 4299. province Palermo, pop. 6605.

Chiusi (kē-ö'sē), the Clusium of the Romans; a town of Italy, province Sienna, and 43 miles s. from Arezzo. It was the capital of Lars Porprovince Sienna, and 43 miles s. from as the leek and onion, and used for fla-Arezzo. It was the capital of Lars Porvoring soups, etc. It is a rare native of sena, and has collections of Etruscan and Britain, where it is often cultivated as

Roman antiquities. Pop. 6011.
Chivalry (chival-ri; French chevalerie, from cheval, a horse), a term which indicates strictly the or-ganization of knighthood as it existed in ganization of knighthood as it existed in the middle ages, and in a general sense important experiments on the vibration of the spirit and aims which distinguished the knights of those times. The chief forms. His works include Discoveries characteristics of the chivalric ages were characteristics of the chivalric ages were arilies spirit, a lofty devotion to the Acoustics, 1802; Contributions to Practemale sex (the latter somewhat questionable), a love of adventure, and an Making of Instruments, 1822; etc. undefinable thirst for glory. The Crusades gave for a time a religious turn to the spirit of chivalry, and various religious orders of knighthood arose, such sas the Knights of St. John, the Templars, clamped firmly at one point, and set in the Teutonic Knights, etc. The education of a knight in the days of chivalry was as follows: In his twelfth year he was as follows: In his twelfth year he was as follows: In his twelfth year he was sent to the court of some baron or noble knight, where he spent his time chiefly in attending on the ladies, and acquiring skill in the use of arms, in riding, etc. When advancing age and experience in the use of arms had qualified the page for war he become fied the page for war, he became an esquire, or squire. This word is from L. scutum, a shield, it being among other offices the squire's business to carry the shield of the knight whom he served. South America, allied to the armadillo. The third and highest rank of chivalry was that of knighthood, which was not conferred before the twenty-first year, worn by the ancient Greeks as an outer except in the case of distinguished birth garment. It was oblong in shape, genor great achievements. The individual erally twice as long as its width.

The city of Chittagong, chief town of the district and second port in Bengal, is etc.; religious rites were performed; and situated on the Karnaphuli about 12 then, after promising to be faithful, to miles from its mouth. Though very unhealthy, its trade has of late been steadile increasing. Pop. 24,100.

Chittagong Wood, the wood of the flat of the sword from the person who trees, especially of Chickrassia tabulderis, order Cedrelacese, a light-colored, order Cedrelacese, a light-colored, new knight to deeds of valor; or after the beautifully-grained wood used by cabinetmakers. Also Cedrela Toona. See Toon.

Chittalorog a control of the prepared himself by confessing, fasting, etc.; religious rites were performed; and etc.; he received the accolade, a slight blow on the neck with the flat of the sword from the person who can etc., he received the accolade, a slight blow on the neck. which, perhaps, we may note a tendency to certain affectations of sentiment and Chittoor (chit'tor), or Chittore, a profession, yet it is to be regarded as town of India, capital of tempering in a very beneficial manner the the North Arcot District, Madras Presinatural rudeness of feudal society. As a the North Arcot District, Madras Fresinatural rudeness of reduction society. As a dency. Pop. 11,500.—Also a town of In-system of education for the nobles it dia, in the state of Cochin. Pop. about filled a place in civilization which as yet 10,000.

Chiusa (kē-č'sa), two Italian towns, Chivasso (kē-vas'sō), a town of Italy, one in N. Italy, province 14 miles N. E. of Turin.

Chive, or Cive (chiv, siv), a small um Schwnoprasum) of the same genus

an edging for garden plots.

Chladni (hlad'nē), Ernest Florent
Friedrich, a German physicist, born in 1756; died in 1827. He
investigated the laws of sound and made

vibration by means of a violin-bow.

Chlamydosaurus (kla-mi-du-sa'rus).
See Frilled Lizard.

Chlamyphorus (kla-mif'o-rus), a genus of quadrupeds of the order Edentata. The only species, C. truncatus, or pichiciago, resembles the mole in its habits; it is about 5 inches long, and its back is covered over with a coat of mail, consisting of twenty-four rows of tough, leathery plates. Its internal skeleton in several respects resembles that of birds. It is a native of

gratifying his ambition. After having nary channels of commercial intercourse, been ambassador at Rome, and at Vien- It first appeared in Europe in 1829, and na, where he concluded with Maria reached Britain in 1831, spreading thence na, where he concluded with Maria reached Britain in 1831, spreading thence Theresa the treaty of alliance against to America.

Prussia, he became in reality prime-minister of France, and was very popular the production of cholera has been as through a series of able diplomatic certained to be a constituent of the exmeasures. He negotiated the famous creta of cholera patients. Dr. Koch Family Compact which reunited the various members of the Bourbon family, and bacillus, having the form of a curved rod. restored Corsica to France. His fall hence called the comma bacillus, discovwas brought about in 1770 by a court ered by himself, and that the disease is intrigue, supported by Madame du Barry, caused by the multiplication of this orthe new favorite of the king. He was ganism in the small intestines, it being banished to his estates, but his advice in que usually to drinking impure water.

A cholera antitoxin was discovered by Professor Vincent, head of the Val de

Choke-cherry, a popular name for one or more species of cherry (such as Prunus or Cerdeus boredlis, Prunus Virginiana), distinguished by their astringency.

Choke-damp, or AFTER-DAMP, the spirable gas (carbonic acid) found in coal-mines after an explosion of fire-damp or light carburetted hydrogen. Cholagogue (ko'la-gog), a me dicine which has the usually due to improper methods of property of stimulating the liver and producing a secretion of bile thereby.

Cholaga (kol'é-ra), ASIATIC, a deadly

feeding, exhaustion, or excess in eating or drinking. In an epidemic, cases vary from those rapidly fatal to those of hardly room those rapidly ratal to those of hardly recognizable diarrhoa; but with the typical pronounced case, in the course of a few hours after diarrhoa begins the stools have the typical 'rice-water' appearance, tures of cotton goods and woolen stuffs, caused by quantities of floating white particles like rice, which are shreds of intesticles like rice, which are shreds of intestinal mucous membrane. Vomiting begins, at first of the stomach contents, and later the brown coloring matter contained in the property of the stomach contents, and later the brown coloring matter contained in the stomach contents, and later the brown coloring matter contained in the stomach contents, and later the brown coloring matter contained in the stomach contents, and later the brown coloring matter contained in the stomach contents, and later the brown coloring matter contained in the stomach contents. of 'rice-water' material. The patient bile and in the intestines, and the sub-suffers severely from intense cramps of stance coloring the fæces and the skin in or rice-water material. The patient suffers severely from intense cramps of the limbs and unquenchable thirst; and unless reaction soon takes place, he falls into a collapsed condition, unable to help himself in any way, although generally quite clear-headed.

trian War of Succession, returned to This disease is endemic in certain parts Paris, where his intimacy with Madame of Asia, and is liable to spread to other de Pompadour furnished the means of parts of the world, usually by the ordi-

political matters was frequently taken by Louis XVI.

Choisy-le-roi (shwä-sē-l-rwä), a Grace Military Hospital, Paris, who also france, 7 miles g. of Paris on the Seine. Were presented before the Academy of Itsle, author of the Marseillaise. Pop. What is called cholers morbus is a lilious disease, long known in most

what is called cholors works is a bilious disease, long known in most countries, and is characterized by copi-ous vomiting and purging, with violent griping, cramps of the muscles of the abdomen and lower extremities, and and lower extremities, and great depression of strength. It is most prevalent at the end of summer or the beginning of autumn. Cholers infantum (infants cholera) is the name sometimes given to a severe and dangerous diarrhea to which infants are liable in the climates or in the hot season and

Cholera (kol'é-ra), ASIATIC, a deadly parasitic endemic and epidemic disease, characterized by acute obtained in the form of beautiful, pearly diarrhœa, vomiting, feeble circulation, crystalline scales, without taste and odor. coldness, cramps and collapse. The victorians of cholera are those whose intestines economy, being essential to the brain are weakened by previous illness, bad and nerve substance, and having been feeding exhaustion. or excess in eating found in milk, and many portions of the found in milk, and many portions of the body, both as a normal and a pathological constituent.

the brown coloring matter contained in jaundice.

Cholos (cholos), in Peru, the name for those who are partly of white, partly of Indian parentage, the most numerous class of the community.

Choisenl Chloroform

usuling together a mixture of alcohol, vard in 1852, and at Harvard Law School water and chloride of lime or bleaching in 1854. A member of the bar in Massapowder. Its use as an anesthetic was chusetts, he removed to New York City introduced in 1847 by Professor (afterin 1856 and was admitted to the bar of wards Sir) James Y. Simpson of Edinthat city. A gifted orator and noted burgh. For this purpose its vapor is injurist, he was appointed ambassador to haled. The inhalation of chloroform first Great Britain by President McKinley, produces slight intoxication; then, frequently, slight muscular contractions, Choate, Ruffus, lawyer, born in Ipaunuliness and dreaming; then loss of Choate, wich, Massachusetts, in 1799; voluntary motion and consciousness, the died in 1850. In 1830 he was elected to unruliness and dreaming; then loss of voluntary motion and consciousness, the patient appearing as if sound asleep; Congress; also in 1832. In 1841 he sucand at last, if too much be given, death by coma and syncope. When skilfully selected to proper cases it is considered one of the safest of anesthetics; American public men, and among the but it requires to be used under certain precautions, as its application has frequently proved fatal. Chloroform is a powerful solvent, dissolving resins, wax, iodine, etc., as well as strychnine and other alkaloids.

Chlorophane

(klō'rō-fān), a mineral, a variety of fluorspar which exhibits a bright-green, phosphorescent light when heated.

Chlorophyll

(klō'rō-fāl), the green coloring matter of Spaniards, and is now extensively used in Europe and America as a beverage in but the stowers of the choctaws (chok'tas), a North America is by the stowers of the choctaws (chok'tas), a North America in but the stowers of the coloring matter of the choctaws (chok'tas), a North America in but the stowers of the conditions.

carbonic acid gas taken in by the stomata of the leaves into its two ele-Chlorophyll Gran-ules in Cells of a

ish or yellowish hue of the skin, languor, indigestion and general debility, and derangement of the system. The pathological condition of chlorosis is a diminution in quantity of the red globules of One of the best known is fittenne Franthe blood, an important constituent of cois. Duke of Choiseul-Amboise, born in which is iron, and accordingly the administration of iron forms a leading part in early life, and after distinguishing of the treatment of this disease.—The

Chloroform (klo'ro-form; CHCla), term is also applied to a disease of plants the perchloride of form which a deficiency of chlorophyll myle, a volatile colorless liquid of an causes a blanched and yellow appearance agreeable, fragrant, sweetish apple taste instead of a healthy green in the plant. and smell, of the specific gravity of 1.48, Choate (chôt), Joseph Hodges, lawand discovered by Soubeiran and Liebig in 1832. It is prepared by cautiously chusetts, in 1832. Was graduated at Hardistilling together a mixture of alcohol, vard in 1852, and at Harvard Law School

Choctaws (chok'tas), a North American Indian tripe now settled on a portion of Oklahoma, about 16.000 in all. They formerly inhableaves into its two elements, carbon and oxy16,000 in all. They formerly inhabgen, returning the oxygen to the air, and converting the carbon with
the water obtained from
having a regular constitution prefaced
the roots into starch. with a bill of rights, courts of justice, the roots into starch. with a bill of rights, Light is indispensable to books and newspapers.

Leaf. Light is indispensable to the formation of chlorophyll, and hence arises the etiolation or blanching of plants by privation of light, either by the art of the gardener or from accidental causes.

Chlorosis (klō-rō'sis; Greek chlōros, yellowish green), or Green apart for the performance of the ordinary service. The name is also given to young girls, is characterized by a green-tish or yellowish hue of the skin, languor, indigestion and general debility, and de-Choisen (sh w ä-seul), an ancient

tend, from one end of an arc of a circle the names of the portions of verse which to the other.

Chorda Dorsa'lis, the notochord or dorsal chord. See Notochord.

Choriambus (kō'ri-am-bus), in pros. a foot consisting of four syllables, of which the first and last are

tufts, which invests the fetus in utero.

Chorley (chorli), a municipal bor-land, Lancashire, on the Yarrow, 20 miles N. W. of Manchester, with manufactures of cotton goods, calico-printing and dyewood works, floor-cloth works, ironfoundries, etc. In the vicinity are coal, lead and iron mines. Chorley gives name to a parliamentary division of the county. Pop. (1911) 30,317.

Choroid (kōr'oid), Cho'rion, a term applied in anatomy to various taxtures: as the choroid membrane.

rious textures: as the choroid membrane, one of the membranes of the eye, of a very dark color, situated between the sclerotic and the retina, and terminating anteriorly at the great circumference of

the iris.

Chorus (kō-rus), originally an ancient Greek term for a troop of singers and dancers, intended to heighten the pomp and solemnity of festivals. During the most flourishing period of ancient tragedy (B.C. 500-400) the Greek chorus was a troop of males and females, who, during the whole representation who, during the whole representation, were spectators of the action, never quitting the stage. In the intervals of the action the chorus chanted songs, which re-lated to the subject of the performance. Sometimes it even took part in the per-formance, by observations on the conduct formance, by observations on the conduct Chota Nagpore (chu'ta näg-pur), of the personages, by advice, consolation, exhortation, or dissuasion. In the begindivision of British India, presidency ning it consisted of a great number of Bengal, divided into the districts of persons, sometimes as many as fifty; but Ranchi, Palamau, Hazaribagh, Singbhum the number was afterwards limited to fifteen. The exhibition of a chorus was Toti in Athens an honorable civil charge, and 991. was called choragy. (See Choragus.) Chotin (hō'tin). See Khotin.

Sometimes the chorus was divided into two parts, who sung alternately. The divisions of the chorus were not stationary, but moved from one side of the stage to the other; from which circumstance on a petty warfare against the republican

they recited, strophe, antistrophe and epods, are derived.—In music, the chorus is that part of a composite vocal per-formance which is executed by the whole Chordæ-Voca'les, or cords. See body of the singers in contradistinction to the solo airs, and concerted pieces for selected voices. The singers who join the chorus are also called the chorus. The term is also applied to the verses of The term is also applied to the verses of a song in which the company join the singer, or the union of a company with a singer in repeating certain couplets or

synapses, or which the first and last are singer in repeating certain couplets or long, and the others short; that is, a verses at certain periods in a song. choreus, or trochee, and an iambus Chose (shōz; French, a thing), in united.

Chorion (kō'ri-on), in anatomy the session; or that which may be demanded external vascular membrane, and recovered by suit or action at law. covered with numerous villi or shaggy Thus money due on a bond or recompense for damage done is a chose in action; the former proceeding from an espress, the latter from an implica contract. A chose local is annexed to a place, as a mill or the like; a chose transitory is a thing which is movable.

Chosen (cho'sen), the ancient name of Corea, now restored by Japan as the legal name.

Chosroes I (kos'ro-es), surnamed the Sassanid kings of Persia, reigned A.D. 531-579. At his accession Persia was a constant of the Tenance of Tenance o 531-579. At his accession Persia was involved in a war with the Emperor Justinian, which Chosroes terminated successfully, obliging Justinian to purchase peace by the payment of a large sum of money. In 540, however, jealous of the renown of Belisarius, the great general of the empire, Constantine violated the peace, invaded Syria, laid Antioch in ashes, and returned home laden with spoils. The war continued till 562, when the emperor was again obliged to purchase peace by an annual obliged to purchase peace by an annual tribute of gold. The peace continued for ten years, when the war was renewed with Justin, the successor of Justina. Chosroes being once more successful. The following emperor, Tiberius, at length completely defeated the Persians in 578.

and Manbhum; and two feudatory states. Total area, 43,020 sq. miles. Pop. 4,903,-

government from an early period of the French revolution. The name was finally extended to all the Vendeans. The name was derived from the first chief of the Chouans, Jean Cottereau, who with his three brothers organized these bands in 1792. Cottereau had joined a band of dealers in contraband salt, and acquired the surname Chouan from the cry of the surname Chouan from the cry of the republican troops in 1794. The Chouans were not suppressed till 1799, and even after that occasional spurts of insurrection occurred down till 1830, when they were fully put down.

Chough (chuf), Cornish Chough, or Redlegged Crow, a bird belonging to the genus Fregilius, of the crow family, but nearly allied to the starlings. F. graculus is the only European species, and frequents, in England, chiefly the coasts of Cornwall. Its general color is black, contrasting well the vermilion-red of the beak, legs and toes. There are other species, natives of Australia, Java, etc.

Chrétien de Troyes (krā-ti-en), a vere, born at Troyes about 1150; died about the end of the twelfth or beginning of the primare of Sweden, from upon six romances still extant, viz., Irio was expelled by Gustavus Vasa

about the end of the twelfth or beginning attained the throne in 1513, and in 1518 of the thirteenth century. His fame rests upon six romances still extant, viz., Iric which he was expelled by Gustavus Vasa et Guide, Perceval le Gallois, Le Chevalier in 1522. He was deposed by his Danish subjects in 1523, and retired to the ronde, Lancelot du lac, and Guillaume Netherlands, whence he returned in 1531 about the Roi Marc et la Reine Kept in confinement till his death.—Yesult, and Le Chevalier à l'Epée, have Chrism (krism: Greek chrisma, salve), the holy oil prepared by the R. Catholic bishops, and used in baptism, Christian IV, King of Denmark, son of Frederick II, born in 1577, succeeded to the throne as a minor in 1588; died to the throne as a minor in 1588; died to the throne as a minor in 1588; died to the throne as a minor in 1588; died to the throne as a minor in 1588; died to the throne as a minor in 1588; died to the throne as a minor in 1577, succeeded from the Greek word 'to anoint'.

Christian Endeavor, United Society of, for the promotion of Christian in token of innocence.

baptism in token of innocence.

Christ (krist; from Greek Christos, 1881, has now about 75,000 societies and the anointed; Messiah, from 4,000,000 members, represented in all the Hebrew, has the same signification), parts of the world. Its purpose is to a title of our Saviour, now used almost as a name or part of his name. See

Christianity and Jesus Christ.

Christian Era, the great era now Christon of the church.

christianity and Jesus Christ.

Christadelphians (k r i s t-a-del'fianz), a religious body of recent origin, who believe that condess life in this world. but that those of Christ; but that christ is the Son of God. established beginning of the era. Time inheriting moral perfection from the before Christ is marked B.C., after Christ Delty, our human nature from his members of the church. Christian Era, the great era now christ

1st, in the fourth year of the 194th olympiad, and 753d year from the building of Rome. It was first used by Dionysius, a Syrian monk, in the sixth century, but did not become general until about the middle

not become general until about the middle of the fifteenth century.

Christiania (kris-ti-á'ni-á), a city and port, the capital of Norway, province Aggershuus or Christiania, at the head of the long narrow inlet called Christiania Fjord, about 60 miles from the open sea or Skagerrack. The houses are mostly of brick and stone, generally plain buildings, devoid of architectural pretension. Important public buildings are the royal palace, the house of representatives or Storthing, the governor's palace and the cathedral. An



the country, the number of their churches being estimated at about 1200. Each church and citadel crowning a point jutting out into the admission to the church is obtained by a fjord. Attached to the university—the only one in Norway, opened in 1813—is a museum, containing a fine collection of antiquities. The manufactures of the city consist of woolen cloth, ironware, to-bacco, paper, leather, soap, spirits, glass, of Norway, the see of a bishop, with etc., and there are extensive breweries. The exports are principally timber and iron. The environs are exceedingly beautiful. Pop. 229,101.

Christian Science. the name given Christianity (k r i s-ti-an'i-ti). the

The first community of the followers of Jesus was formed at Jerusalem soon after the death of their Master. Another at Antioch in Syria first assumed (about 65) the name of *Christians*; and the travels of the apostles spread Christianity through the provinces of the Roman Empire. Palestine, Syria, Asia Minor, Greece, the islands of the Mediterranean, Italy, and the northern coast of Africa, as early as the first century, contained societies of Christians. At the end of the third century almost half of the inhabitants of the Roman Empire, and of several neighboring countries professed this eral neighboring countries, professed this belief. While Christianity as a system was thus spreading, many heretical branches had sprung from the main trunk. From the Gnostics, who date from the days of the apostles, to the Nestorians of the fifth century the number of sects was the fifth century the number of sects was large; some of them exist to the present day. The most important events in the subsequent history of Christianity are the separation of the Eastern and Western churches early in the eighth century; and the Western reformation, which may be said to have commenced with the sectaries of the thirteenth century and ended with of the thirteenth century and ended with the establishment of Protestantism in the sixteenth. The number of Christians now in the world is computed at 570,000,000. Of these about 275,000,000 are Roman Catholics, 120,000,000 belong to the Greek Church, and 175,000,000 are Protestants.

Christians (krist'yans), or Cheis-Tian Connection, the name of a denomination in the United States and Canada, adopted to express their renunciation of all sectarianism. They are to be met with in all parts of the country, the number of their churches being estimated at about 1900. Facel

tiful. Pop. 229,101.

Christianity (k r i s-ti-an'i-ti), the religion instituted by Jesus Christ. Though the great moral tian religion. Christian Science, by Mary Baker principles which it reveals and teaches, from 1866, but Mrs. Eddy relates in her and the main doctrines of the gospel, have memoirs that she had been, for twenty been preserved without interruption, the genius of the different nations and ages all physical effects to a mental cause.'

to contain a complete statement of 'divine metaphysics, including directions for practice. We read on page 135: 'The same power which heals sin heals also sickness'; also on page 145, with reference to scientific healing': 'Its ethical and physical effects are indissolubly connected.' As a religious teaching, Christian Science is presented as the restoration of original Christianity, with its absolutely spiritual understanding of all true being, and its consequent power over all unspiritual conditions, including disease. As a religious movement, Christian Science is notable for the rapidity of its growth. The First Church of Christ, Scientist, was organized in 1879 at Boston. In 1914 there were over 1400 Christian Science churches or societies. A majority of these are located in the United States, but they are numerous wherever the English language is spoken, and a considerable number are to be found in foreign countries. The Christian Science Church is distinctive because it

off in 1653.

Science dates from 1875, when Mrs. Eddy published the Christian Science textbook, Science and Health With Key to the capital of the län or government of same Scriptures. This is in the nature of a name, on a peninsula in the Helge Lake, commentary on the Bible, and purports about 10 miles from the Baltic, with Christianstad (kris' te-an-stad), a town of Sweden, manufactures of gloves, linen and woolen fabrics, and some trade through the port of Ahus, at the mouth of the Helge. Pop. 10,318.

Christiansted (-sted), a fortified town, capital of the island of St. Croix, Danish West Indies, with a good harbor and some trade. Pop. about 6000.

Christiansund (-sund), a seaport town on the N. w. coast of Norway, 82 miles s. w. of Trondhjem, on three islands which inclose is a seaport town on the N. w. trade in dried and salted fish. 11.982.

Christina (kris-te'na), Queen of Sweden, daughter of Gustavus Adolphus, born in 1626; died in 1689.

After the death of Gustavus, at Lützen, in 1632, the states-general appointed guardians to the Queen Christina, then but six years old. Her education was continued according to the plan of Gustavus Adolphus. She learned the ancient landoes not rely on the personality of renounced the pleasures of her age in preachers. Each church of this denomination elects two readers from its mem. In 1644 she took upon herself the governpreachers. Each church of this denom-order to devote herself entirely to study. In allow elects two readers from its mem. In 1644 she took upon herself the governbers for stated terms, who conduct its ment. A great talent for business, and services. On Sundays they read a 'lesservices. On Sundays they read a 'lesservices. She terminated the war the Bible and from Science and Health with Denmark begun in 1644, and obwith Key to the Scriptures, by Mrs. tained several provinces by the treaty Eddy. These lesson-sermons are uniform concluded at Bromsebro in 1645. Her son-sermon' composed of selections from the Bible and from Soience and Health with Denmark begun in 1644, and obwith Key to the Soriptures, by Mrs. Eddy. These lesson-sermons are uniform throughout the world. The remainder of a Sunday service consists of hymns, a husband, but she manifested a constant solo, silent prayer, and a responsive reading from the Bible. Wednesday evening her patronage of learned men, artists, meetings include testimonies of Christian and the like was lavish. In 1650 she Science healing from voluntary speakers. Christians of St. John, a sect of religion that time a striking change in her consists found in Asiatic Turkey, fieldy in the neighborhood of Bassora. They proacted the service of substitutes and are wrongly called Christians of St. In 1650 she page to the feess to follow the teaching of John the advice of ambitious favorites. Intrigues Baptist, and are wrongly called Christians of St. John, and base passions succeeded to her advice of ambitious favorites. Intrigues and base passions succeeded to her former noble and useful views. The fess to follow the teaching of John the Baptist, and are wrongly called Chris- and base passions succeeded to her tians since they reject Christ, and are former noble and useful views. The practically heathen, whose deities are public treasure was squandered with exdarkness and light. Also called Zabians, travagant profusion. In 1354 she abdicated in favor of her cousin Charles Christians of St. Thomas, Gustavus, reserving to herself a certain and full control of the cousin Charles are control of the cousin Charles and control of the cousin Charles are control of the cousin Charles and control of the cousin Charles are control of the cousin Charles and control of the cousin Charles are control of the cousin Charles and control of the cousin Charles are control of the cousin Charles and control of the cousin Charles are control of the cousin Charles and control of the cousin Charles are control of the cousin Charles and control of the cousin Charles are control of the cousin Charles and control of the cousin Charles are control of the cousin Charles and control of the cousin Charles are control of the cousin Charles and control of the cousin Charles are control of the cousin Charles and control of the cousin Charles are control of the cousin Charles and cont or Syrian Church of India, the name of income, entire independence, and full a sect of Christians on the coast of Malapower over her suite and household. A bar, in India, numbering some 500,000. few days after she left Sweden and went The church is doubtless an offshoot of the to Brussels, where she made a public Nestorian Church of Persia, transplanted entry and remained for some time. There to India about the beginning of the sixth century. The yoke of Rome was thrown she made a secret profession of the Catholic religion, which she afterwards publicly confirmed in Innsbruck. From

Innsbruck she went to Rome, which she entered on horseback in the costume of an Amazon, with great pomp. When the Pope Alexander VII confirmed her she adopted the surname of Alessandra. For some time she resided at Paris, and curred great odium by the execution of are Italian equerry Monaldeschi for betrayal of confidence. Subsequently attempts which she made to resume the crown of Sweden failed, and she spent the rest of her life in artistic and other studies at Rome. She left an immense art collection and a large number of valuable MSS. Her writings were collected and published in 1752.

Christian it is kept as a holiday and occasion of social enjoyment. In most widely observed of all festivals, extending and season of good fare, present giving and family reunion.

Christmas Boxes, boxes in which prosents were deposited at Christmas; hence a Christmas gift. The custom of bestowing Christmas to collection and a large number of valuable MSS. Her writings were collected and published in 1752.

Christison (kris'ti-sun), Sir Robert, the priests on the morrow (boxing day). Christison (kris'ti-sun), SIR ROBERT,

an eminent physician, born at Edinburgh 1797; died 1882. A specialist in toxicology, he was appointed to the chair of medical jurisprudence in Edin-burgh, in 1822, and in 1832 he was promoted to that of materia medica. He was twice president of the Royal College of Physicians, president of the Royal Society of Scotland, and ordinary physician to the Queen in Scotland. He was D.C.L. of Oxford and LL.D. of Edinburgh, and was elected rector of the latter university in 1880.

ter university in 1880.

Christmas (kris'mas), the festival of the Christmas (kris'mas), the festival of the Christian Church observed annually on December 25th in memory of the birth of Christ, and celebrated by a particular church service.

The time when the festival was first lebore), so called observed is not known with certainty; from its flower, which resembles a large white single observed is not known with certainty; but it is spoken of in the beginning of the third century by Clement of Alexandria; large white single in the latter part of the fourth century errors; its foliage is Chrysostom speaks of it as of great antiquity. As to the day on which it and the plant bloswas celebrated, there was long considersom during the winable diversity, but by the time of Chrysostom the Western Church had fixed on the 25th of December, though no certain knowledge of the day of Christ's birth existed. The Eastern Church, which lighted up by means previously had generally favored the 6th of January, gradually adopted the same of colored wax or small Christmas Rose (Helder Many believe that the existence of Chinese lanterns, leborus niger). of January, gradually adopted the same date. Many believe that the existence of heathen festivals celebrated on or about this day had great influence on its being flags, tinsel, ornaments, etc., and hung selected; and the Brumalia, a Roman all over with gifts for children. festival held at the winter solstice, when Christology (kristology), that branch the sun is as it were born anew, has often been instanced as having a strong bearing on the question. In the Roman catholic, Greek, Anglican and Lutheran churches there is a special religious service for Christmas Day: and, contrary to the general rule. a Roman Catholic as a slave in St. Domingo on the outpriest can celebrate three masses on this break of the blacks against the French day. Most other churches hold special in 1793. From the commencement of the service, but almost everywhere through-

the priests on the morrow (boxing day). Christmas Cards, ornamental cards containing words of Christmas greeting to friends to whom they are sent. The first of them appeared about 1862, and consisted of pictures of robins, holly, etc.; since then highly artistic designs have been introduced, and their manufacture is considerable in the United States, Germany, France and England. Immense quantities of them pass through the postoffice every Christmas. every Christmas.

ornamented with

leborus niger).

Christology (kris-tol'o-ji), that branch of the study of divinity which deals directly with the doctrine of the person of Christ.

ture gave him the commission of brigadier-general, and he was largely instru-mental in driving the French from the After the death of Dessalines Christophe became master of the northern part of the island. In 1811 he had him-

68 sq. miles, devoted to sugar and pasturage. The interior consists of many rugage. The interior consists of many rugged precipices and barren mountains. The chief town, a seaport with open roadstead, is Basse-Terre. The island has a legislature of its own, with an executive subordinate to the governor of the Leeward Islands, resident in Antigua. It was discovered by Columbus in 1493 and colonized by the English in 1628. Pop. 29,127.

Christopulos (krēs-to-pö'los), ATHA-NASIOS, the best of modern Greek lyric poets, born in 1772 at Kastoria, in Macedonia; died 1847. His reputation as a poet rests on his Erotika and Bacchika, or Love and Drinking Songs, which have been sev-

Christ's Hospital (generally known is less likely to become oxidized, or by the name of burnt,' in working, and also rolls much ence to the costume of the children educated there), a school in London, founded by Edward VI for supporting poor orphans. Its present income is to very pale canary yellow, much used shout \$\frac{4550000}{2550000} \text{ ence to the devention of the children education in the ortal canary yellow, much used about \$350,000 annually; the education in the arts. is essentially classical, but modern Chromium (krō'mi-um; chemical languages, literature, etc., are also taught.

There is a mathematical school attached, weight, 52.4), a metal which forms very

energy, boldness and activity in many includes girls, is upwards of 1000. The bloody engagements. Toussaint-L'Ouver- London School occupied the site of the old Greyfriars monastery. Here Camden, Richardson, the novelist, Coleridge, Charles Lamb and Leigh Hunt received their education.

part of the island. In 1811 he had himself proclaimed King of Hayti by the name of Henri I. He also sought to perpetuate his name by the compilation of the Code Henri—a digest founded upon the Code Napoleon. His cruelty provoked a revolt, which being unable to quell he shot himself, 1820.

Christopher (kris'tofer), St., a martyr of the early church, beheaded in Asia Minor, according to tradition in the year 250. The Eastern Church celebrates his festival on the 9th of May, the Western on the 25th of July.

Christopher St. (commonly called the chard which contains to the diatonic scale. Thus a chromatic chord is a chord which contains the results of the diatonic scale. Christ's Thorn, the Paliurus acule-

Christopher, St. (commonly called chord which contains a note or notes forces island in the West Indies, one of the harmony, harmony consisting of chroleeward Islands, 23 miles in length, matic chords. The chromatic scale is a and in general about 5 in breadth; area scale made up of thirteen successive semitones, that is, the eight diatonic tones and the five intermediate tones.

Chromatic Printing. See Chromatic Printing. Chromatics, the science of colors; that part of optics which treats of the properties of the colors of light and of natural bodies.

Chrome Green (krōm), the green oxide or sesquioxide of chromium, forming a green pigment used by enamelers.

Chrome Iron Ore, an ore of chromium, is a mineral of very considerable importance as affording chromate of potash, whence are obtained various other pregarations of this metal used in the arts.

Drinking Songs, which have been several times collected and printed under the title of Lyrika. He is also the author of an Eolian-Dorio Grammar, and translated into modern Greek parts of the asserted that this will bear a higher degree of heat than ordinary steel, and Christ's Hospital (generally known by the name of burnt,' in working, and also rolls much since to the costume of the children. Chrome Valleyy a chromate of lead.

and scholarships are given either to Ox-hard, steel-gray masses: it never occurs ford or Cambridge. The average num-native, but may be obtained by reducing ber of pupils in London and at the the oxide. In its highest degree of oxipreparatory school at Hertford, which dation it forms a compound of a ruby-

By itself it has received no practical applications. It takes its name the various and beautiful colors diseases which are inveterate or of long which its oxide and acid communicate to continuance, in distinction to acute disminerals into whose composition they enter. It is the coloring matter of the emter. It is the coloring matter of the emerald and beryl. Chromium is employed to give a fine deep green to the enamel of porcelain, to glass, etc. The oxide of chromium is of a bright grass-green or pale-yellow color. This element was originally discovered in 1797 by Vauquelin, in the native chromate of lead of Siborio.

of stones.

Chromosphere (krō'mō-sfēr), the gaseous envelope which exists round the body of the sun, through which the light of the photosphere, an inner envelope of incandescent matter, passes. During total eclipses it had been observed that a redcolored envelope surrounded the sun, shooting up to great distances from the surface. It seems to have been first rec-ognized by Secchi; and the projecting porognized by secon; and the projecting por-tions of it are commonly described as 'red-colored protuberances' and 'red flames.' To this red envelope the name chromosphere was given by Mr. Lockyer. The light from it is much fainter than that from the photosphere; and till 1868, when M. Janssei and Mr. Lockyer al-ment simultaneously pointed out. most simultaneously pointed out a method of viewing it, it was never seen except during eclipses. The chromosphere and its prominences, when examined with the telespectroscope, exhibit a spectrum of bright lines, due to incan-descent gases. The most elevated portions consist entirely or almost entirely of hydrogen, the lightest of the gases. Lower down are found the gases or vapors of the heavier metals—of sodium, marnesium, barium, iron and others. The lower the layer of the chromosphere examined the more densely is the spec-trum filled with lines of metals, and in the prominences the red hydrogen flames tower high above all.

Chronic (kron'ik; from Greek chro-nos, time), a term applied to continuance, in distinction to acute dis-eases, which speedily terminate.

Chronicle (kron'i-kl), a history di-gested according to the

order of time. In this sense it differs but little from annals. The term is mostly used in reference to the old hischromium is of a bright grass-green or mostly used in reference to the old hispale-yellow color. This element was originally discovered in 1797 by Vauquelin, in the native chromate of lead of Siberia.

Chromolithography (krō'mō-lithog' ra-fi), a Froissart, Monstrelet, Fabian, Hardyng, method of producing a colored or tinted Hall, Hollinshed, Stowe and Baker. lithographic picture by using various of the having different portions of the picture drawn upon them with inks of formed only one book in the Hebrew

stones having different portions of the picture drawn upon them with inks of various colors and so arranged as to canon, in which it is placed last. Its blend into a complete picture. Sometimes as many as twenty different colors are employed. In printing, the lighter shades are printed off first and the darkable and is thus much the same as our est last. In the three-color process the use of the three primary colors suffices for all shades, and it is done on a printing press with photo-electrotypes instead was given to it by Jerome. The book is the state of the letast compositions of the things omitted.' The name Chronicles was given to it by Jerome. The book is one of the latest compositions of the Old Testament, and is supposed to have been written by the same hand as Ezra and Nehemiah. According to its contents the book forms three great parts:—1, genealogical tables; 2, the history of the reigns of David and Solomon; 3, the history of the kingdom of Judeh from the history of the kingdom of Judah from the separation under Rehoboam to the Babyseparation under Renodoam to the Badylonian captivity, with a notice in the last two verses of the permission granted by Cyrus to the exiles to return home and rebuild their temple. The Chronicles present many points of contact with the earlier Scriptures, historical and prophetical, more especially, however, with the books of Samuel and of Kings.

Chronogram (kron'o-gram), a device by which a date is given in numeral letters by selecting certain letters of an inscription and printing them larger than the others, as in the motto of a medal struck by Gustavus Adolphus in 1632:—ChrlstVs DVX; ergo trIVMph Vs; where the values of C and the other capitals regarded as Romanda and the other regarded as Romanda man numerals gives the required figure when added together.

Chronograph (kron'o-graf), the name given to various de vices for measuring and registering very minute portions of time with extreme precision. Benson's chronograph is, in principle, a lever watch with a double second hand, the one superimposed on the other. The outer end of the lower-

at the bottom, while the correspond-ing end of the uppermost is bent down so as just to reach the hole. At the starting (say) of a horse race, the ob-server pulls a string, whereupon the bent end of the upper hand passes through the hole and makes a black mark on the the hole and makes a black mark on the from affecting its movements. Marine dial, instantly rebounding. Again, as chronometers generally beat half-seconds, each horse passes the winning-post the and are hung in gimbals in boxes 6 to 8 string is redrawn and a dot made, and thus the time occupied by each horse is does not differ in appearance from a noted. This chronograph registers to one-tenth of a second. Strange's chronometer that it is somewhat larger. The pocket chronometer watch except that it is somewhat larger. Chronoscope (kron'o-skop), an instrument for measuring and end of each swing. By touchmark on a sheet of paper at the beginning and end of each swing. By touching a spring on the appearance (say) of a particular star in the field of a telea particular star in the field of a tele-scope, an additional dot is made inter-mediate between the two extreme ones, and by measuring the distance of this and by measuring the distance of this Prague, with some manufactures and from either of these extremes the exact large horse-markets. Pop. 13,017. time can be ascertained to one-hundredth of a second. Schultze's chronograph, in which electricity is applied, is yet far more precise, registering time to the five-hundred-thousandth part of a second.

The proof of the proof

Chronology (kron-ol'o-ji; Gr. ohro-nos, time, and logos, animal is in a state of rest or insensi-discourse), the science which treats of time, and has for its object the arrangement and exhibition of historical events in order of time and the ascertaining of the intervals between them. Its basis is necessarily the method of measuring or computing time by regular divisions or periods, according to the revolutions of the earth or moon. The motions of these bodies produce the natural division of time into years, months and days. As there can be no exact computation of time or placing of events without a fixed point from which to start, dates z z, antenne. 3, Chrysalis of the White Butterfly-moth; a, Palpi or feelers; b b, wing-cases; sucker; c e, eyes; fixed point from which to start, dates z z, antenne. 3, Chrysalis of the Oak Eggerare fixed from an arbitrary point or epoch, which forms the beginning of an bility, and exists without nutriment, the era. The more important of these are length of time varying with the species the creation of the world among the and season. During this period an Jews; the birth of Christ among Christans; the Olympiads among the Greeks; the chrysalis, giving to the organs of the future animal their proper development.

Chrysanthemum (kris-an'the-mum). med, among the Mohammedans, etc. See Epoch, Calendar.

ures time, as a clock, watch, or dial; but, rays are sometimes white. The chrysan-specifically, this term is applied to those themum of gardens is a Chinese halfspecifically, this term is applied to those themum of gardens is a Chinese half-timekeepers which are used for determin-ing the longitude at sea, or for any other merous varieties constitute one of the purpose where an accurate measure of chief ornaments of our American gar-time is required, with great portability dens in October, November and Decem-in the instrument. The chronometer ber. The ox-eyed daisy *C. Loucanthěmum*

most hand has a small cup filled with differs from the ordinary watch in the a black viscid fluid, with a minute hole principle of its escapement, which is so at the bottom, while the correspond-constructed that the balance is free from the wheels during the greater part of its vibration, and also in being fitted with a 'compensation adjustment,' calculated to prevent the expansion and contraction of the metal by the action of heat and cold from affecting its movements. chronometers generally beat half-seconds, and are hung in gimbals in boxes 6 to 8 inches square. The pocket chronometer does not differ in appearance from a watch except that it is somewhat larger. velocity of projectiles.

Chrudim (hrö'dim), a town of Bohemia, 62 miles s. E. of



Chrysanthemum (kris-an'the-mum).

a large genus of composite plants, consisting of herbs or shrubs with single, large-stalked, yellow Epoch, Calendar.

Chronometer (kron-om'e-ter), any shrubs with single, large-staiged, yellow instrument that meas-flowers or with many small flowers; the and the corn-marigold, C. Segetum, are common weeds in Europe.

Chryselephantine (kris-el-e-fan'tin; Gr. ohrysos, gold; elephas, ivory), made of gold and ivory combined, a term applied to statues executed in these two substances by the ancient Greeks, as Pheidias' great statue of Athena.

Chrysippus (kri-sip'us), an ancient Greek philosopher belonging to Cilicia, lived about B.C. 282-209. He was the principal opponent of the Epicureans, and is said to have written 700 different works, mostly of a dialectical character; but only a variety of

fragments are extant.

Chrysoberyl (kris'ō-ber-il; some-times called cymophane, and, by the jewelers, oriental chrysolite), a gem, of a pale yellowish-green color, usually found in round pieces about the size of a pea, but also crystal-lized in eight-sided prisms. It is an aluminate of beryllium, is next to the sapphire in hardness, and is employed in jewelry, the specimens which present an opalescent play of light being especially admired.

Chrysolite (kris'ō-lit), a mineral composed of silica, magnesium and iron. Its prevailing color is some shade of green. It is harder than glass, but less hard than quartz; often transparent, sometimes only translucent. Very fine specimens are found in Egypt and Brazil, but it is not of high repute

at Milan, Pavia and Rome, thus becoming a chief promoter of the great revival of

Chrysophan'ic Acid, the yellow coloring matter of rhubarb. With potash it gives a fine purple solution, and thus affords a delicate test for the presence of alkalies.

Chrys'oprase (-pras). a kind of quartz, being merely a variety of chalcedony. Its color is commonly apple green, and often extremely beautiful, so that it is much esteemed in jewelry. It is translucent, or sometimes semitransparent, and of a hardness little inferior to that of flint.

father, who had the command of the imperial troops in Syria, died soon after the birth of his son, whose early educa-tion devolved upon Anthusa, his mother. studied eloquence Chrysostom Libanius, the most famous orator of his time, and soon excelled his master. After having studied philosophy with Andragathius he devoted himself to the Holy Scriptures, and determined upon quitting the world and consecrating his life to God in the deserts of Syria. He spent several years in solitary retirement, studying and meditating with a view to the church. Having completed his voluntary probation he returned to Antioch in 381, when he was appointed deacon by the Bishop of Antioch, and in 386 con-secrated priest. He was chosen vicar by the same dignitary, and commissioned to preach the Word of God to the people. lie became so celebrated for the eloquence of his preaching that the Emperor Arcadius determined, in 397, to place him in the archiepiscopal see of Constan-tinople. He now exerted himself so zealously in repressing heresy, paganism and immorality, and in enforcing the obligations of monachism, that he raised up many enemies, and Theophilus, patriarch of Alexandria, aided and encouraged by the Empress Eudoxia, caused him to be deposed at a synod held at Chalcedon. The emperor banished him from Constantinople, and Chrysostom purposed retiring to Bithynia; but the people threatened a revolt. In the following night and Brazil, but it is not of high repute ened a revoit. In the following hight as a jeweler's stone.

Chrysoloras (kris-o-lo'ras), Manuel, this dilemma Arcadius recalled his orders, a distinguished Greek of and Eudoxia herself invited Chrysostom Constantinople, born the middle of the to return. The people accompanied him fourteenth century; died in 1415. He triumphantly to the cit, his enemies fied, settled as a teacher of Greek literature and peace was restored, but only for a at Florence, about 1395. He also taught short time. A feast given by the empress the consecration of a status and on the consecration of a statue, and attended with many heathen ceremonics, roused the zeal of the archbishop, who roused the zeal of the archibatop, who publicly exclaimed against it; and Eudoxia, violently incensed, recalled the prelates devoted to her will, and Chrysostom was condemned and exiled to Armenia. Here he continued to exert his pious zeal until the emperor ordered him to be conveyed to a town on the most distant where of the Black Sea. The to be conveyed to a town on the most distant shore of the Black Sea. The officers who had him in charge obliged the old man to perform his journey on foot, and he died at Comana, by the way. Here he was buried; but in 438 his body was conveyed solemnly to Constantinople. Chrysostom (kris'os-tom), John, Sr. and there interred in the Church of the ('golden - mouthed'). a Apostles, in the sepulcher of the emperor. celebrated Greek father of the church, At a later period his remains were born in Antioch about A.D. 344; died at placed in the Vatican at Rome. The Comana in Pontus in 407. Secundus, his Greek Church celebrates his feast on the

green, the sides silvery, and the belly white. It frequents deep holes in rivers



Chub (Cyprinus [Leuciscus cephālus).

shaded by trees, but in warm weather floats near the surface, and furnishes sport for anglers. It is indifferent food, and rarely attains the weight of 5 lbs. Allied American species receive the same

Chubb, THOMAS, English writer, born 1679; died in 1746. Although engaged as a glover and chandler, ne gave his chief attention to philosophical and theological study, and was more restricted significations it denotes a celebrated in the Arian controversy for his argumentative keenness. In this connection he published in 1715 The Supremacy of the Father Asserted, besides various other moral and theological tracts. he gave his chief attention to philosoph-Chubb Lock, a lock so named from the name of its inventor, a London locksmith. It has more tumblers than usual, with the addition of a lever called the detector, which is so fixed that while it does not act under the nxed that while it does not act under the ordinary application of the key, it cannot fail to move if any one of the tumblers be lifted a little too high, as must be the case in any attempt at picking. This movement fixes the bolt immovably, and renders all further attempts at picking useless.

Chuck Will's Widow, a popular na me in the United States for a bird of the goatsucker family, Antrostomus carolinensis, so called from its cry.

Chumbul (chum'bul). a river of N. W. Hindustan, which rises in the Vindhya Mountains, and falls into

13th of November, the Roman on the calcined shells or from very pure lime-13th of November, the Roman on the calcined shells or from very pure lime27th of January. His works, which stone, and used for chewing with betel.

Chunar (chun'ar), a town and forterestises, abound with information as to the manners and characteristics of his the manners and characteristics of his age.

Chub, a European river fish, of the subgenus Cyprinus or carps; or, as some regard it, of the subgenus Leuciscus (L. cephālus). The body is on the Yang-tse-Kiang, at its confluence oblong, nearly round; the head and back with the Kia-ling. Pop. 600,000.

green, the sides silvery, and the belly Chunach or Chanae (chun'ar).

Chuprah or Chapra (chup'ra), a town of Hin-

dustan on an affluent of the Ganges. Has an active commerce. Pop. 48,000.

Chuquisaca (chö-kē-sä'kà), or Sucre, a city of South America, a city of South America, the capital of Bolivia; well situated on a plateau between the Amazon and La Plata rivers, 9343 feet above sea-level. It has a cathedral and a university. It was founded by one of Pizarro's officers in 1539. Pop. formerly 27,000, now estimated 12,000.—The province of estimated 12,000.—The province of Chuquisaca has an area of 26,410 square

Church (from Gr. kyriakon, from kyrios, 'lord'), a word which in its widest sense denotes the whole community of Christians, and was thus used by the New Testament writers. In

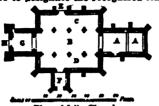


Islip Church, Northamptonshire. the Vinna about 90 miles southeast of Agra, after a course of 650 miles.

Chunam (chō-nam'), in the East Chancel at its windows. 3, End of nave. 4444, to Clerestory and windows. 5, South aiele. 6, South porch. 7, Tower. 88, Belfry windows, very fine kind of quicklime made from 9, Spire.

munity differing in doctrinal matters from the remainder, as the Roman Catholic Church, the Protestant Church, among the Latin fathers are Tertullian, etc.; or to designate the recognized leading Augustine, Ambrose and Jerome.

Churchill (church'ill), CHARLES, an English poet and satirist, was born in 1731, and died in 1764.



Pian of Islip Church.

A A, Chancel. B, Nave. c, North aisle.

South aisle. B, North door. F, South porch.

Tower. E, West door.

church of a nation, as the English, Scotch, or French Church. In yet another sense it signifies the edifice appropriated to Christian worship. After the conversion of Constantine the basilics or public halls and courts of judicature and some of the heathen temples were consecrated as Christian churches. When churches Christian churches. When churches came to be specially built for Christian worship their forms were various-round, worship their forms were various—round, octagonal, etc. Later on the form with the cross aisle or transept (cruciform churches) became common. Early British churches were built of wood; the first stone churches erected being that of Whithorn, Galloway (6th century), and that of York (7th century). The accompanying illustrations exhibit a type of church which with more or less modification is common in England and will tion is common in England, and will enable the reader to understand the terms applied to the various parts. (See also Cathedral.) Generally speaking, any building set apart for religious ordinances is called a church, though when of a minor kind it is usually designated a chapel. The term church, however, is often restricted to the buildings for worship connected with a national establishment. They are classed as cathedral, when containing a bishop's throne; collegiate, when served by a dean and chapter; conventual or minster, when connected with a convent or monastery; abbey or priory, when under an abbot or prior; and parochial, when the charge of a secular priest. See Christianity, Greek

Church, etc.
Church, FATHERS OF THE (patres ecclesia), teachers and writers of the ancient church who flour-

An early and imprudent marriage was An early and improvent marriage was followed by his admission to holy orders. In 1761 he published anonymously a poem called *The Rosciad*, a clever satire on the chief actors of the day, and *The* on the chief actors of the day, and The Apology, a reply to his critics. A course of dissipation and intemperance followed, which excited much animadversion, and elicited from him his satire, Night. Churchill now threw aside all regard for his profession, and became a complete man about town and a professional political satirist. His other productions include The Ghost, The Prophecy of Famine, Epistle to Hogarth, etc.

Churchill, RANDOLPH HENEY SPENCER, LORD, second son of the sixth Duke of Marlborough, born in 1849; died in 1895. By 1884 he had risen to the position of leader of the Conserva-

1849; died in 1895. By 1884 he had risen to the position of leader of the Conservative party, and in 1885 became Indian secretary in Lord Salisbury's government. On the defeat of Gladstone's Irish Bill in 1886, Churchill became leader of the House of Commons and Chancellor of the Exchequer, but resigned at the of the Exchequer, but resigned at the close of the year.

Churchill WINSTON, an American

Churchill, WINSTON, an St. Louis, author, born in St. Louis, Missouri, November 10, 1871; graduated at the Naval Academy, Annapolis, but devoted himself to literature. His novels include Richard Carvel (1899), The Crisis (1901), The Crossing (1904), Coniston (1906), and Mr. Crowc's Career (1908) (1908).

Churchill, WINSTON LEONARD SPEN-CER, eldest son of Lord Randolph Churchill, born November 30, 1874. He joined the army and took part in a number of important operations. 1908 he became president of the Board of Trade in Asquith's cabinet. In 1910 he was made Home Secretary; in 1912 First Lord of the Admiralty, serving through a part of the Great War. He was appointed minister of munitions in 1916.

of the Ter-Churchill River, a river of Northwest ritories of Canada, which rises in La Crosse Lake, forms or passes through various lakes or lake-like expansions, apostolic fathers (the immediate disciples of the apostles), from the second to the easterly course of about 800 miles. It is called also Missinnipoi or English river. Churching of Women a form of Churching of Women

a majority of the parishioners in vestry assembled, from the occupiers of land and houses within a parish, for the purpose of maintaining the church and its services.

Chutny, or Chutnes (chut'nē), in compounded of sweets and acids. Ripe the church and its services. In 1868 an act was passed abolishing compulsory church-rates, except such as,

the oily globules from other parts and gather them as butter. In the older forms a plunger worked vertically in a tub; in the stomach it forms a pulpy mass which some of the modern forms dashers are passes on into the small intestine, and be-

ing after childbirth, adopted from the sidered as the key of China, and was Jewish ceremony of purification, and practised still in the Roman Catholic and British in 1840, 1841 and 1860. The Anglican churches, the latter having a special service in the Prayer Book.

Church-rate, in England a rate monasteries, etc., and is entirely increased by resolution of habited by priests.

compulsory church-rates, except such as, fruit (mangoes, raisins, etc.), spices, sour under the name of church-rates, were herbs, cayenne, lemon-juice, are the ordichurchwardens (church-war'dens), officers, generally two for each parish in England, who superintend the church, its property and concerns. They are annually chosen by the minister and parishioners, according to the custom of each parish, aground in which dead are buried, adjoining a church.

Church'yard Beetle, mortisaga, a absorbent system, called the thoracic duct, through which it is gread-with order. very common insect found in dark, damp through which it is gradually poured into and dirty places; it is black, but little the blood of the left subclavian vein at a shining, and the tip of the elytra forms a short, obtuse point.

Churn, a vessel in which milk or stituents of chyle are nearly the same as the oily globules from other parts and Charac (Thur) food after it has been the point to be a short distance before it enters the right side of the heart. The chemical constituents of chyle are nearly the same as the oily globules from other parts and Charac (Thur) food after it has been as

gather them as purceal.

a plunger worked vertically in a tub; in some of the modern forms dashers are turned by a crank, while in others the ing acted on by the bile, pancreatic fluid tub itself is swung to and fro, causing and intestinal juice, is separated into the milk to dash against the ends and chyle and non-nutritious matters, which sides. In the combined churn and butter-latter are carried off by the evacuations.

The control of the modern forms dashers are passes on into the small intestinal, place in into the small intestinal juice, is separated into the milk to dash against the ends and chyle and non-nutritious matters, which latter are carried off by the evacuations.

The control of the intertion into the small intestinal place in into the small intestinal place. In the combine into the intertion into the small intestinal place in into the intertion into the interti writer and actor, born at Lonit is operated by power and used to considerable extent in creameries.

Churrus. See Charras.

(abs. The buttermix is drawn on;
writer and actor, born at Lonit is operated by power and used to considerable extent in creameries.

(burrus. See Charras.

(burrus. See Charras. Churubusco (chu-ru-bus'kō), a villusco (chu-ru-bus'kō), a in which the former were defeated.

Chusan Islands, (chö-sān'), a group of islands on the east coast of China, the largest in the largest in the chiper of chosen and from 6 to 11 broad. Pop. about 200,000. Chief the writer. He was much inferior to his town Ting-hae, pop. 40.000. Rice and transition near the mouths of the Yang-situation near the mouth of the Yang-situation near the principal near the policy of the Life of Col Theater. Handel composed pieces expressly adapted to her voice, and used to ward as a pleader, and having undertaken instruct her in singing them. She subsequently made her appearance in tragaccused of parricide, procured his acquitedy, and gained universal admiration. tal. He visited Garrick is said to have exclaimed, when Greece B.C. 79, informed that she was dead, 'Then conversed with the

informed that she was dead, 'Then conversed with the tragedy has expired with her.'

Cibol (sib'ul; Allium fistulosum), a the schools, and perennial plant of the onion genus, a native of Siberia, with hollow struction of the stems larger than those of the chive; masters of oratory.

used for culinary purposes.

Ciborium (si-bo'ri-um), in the Rothat close friend-man Catholic Church, a ship with Atticus kind of cup or chalice made of gold or of which his letters silver and containing the bread used in the sacrament. Also a sort of canopy over an altar.

Cicada (si-kā'da), the popular and generic name of certain insects belonging to the order Hemiptera, a suborder Homoptera, of many species. The males have on each side of the body a kind of drum, with which they can make a considerable noise. This, regard-ed as the insects' song, was much ad-mired by the ancients, and is frequently referred to by their poets. The largest European species are about an inch long, but some American species are much larger, and their note much louder. They are nearly all natives of tropical or warm temperate regions. The female has the posterior extremity of the abdomen furnished with two serrated horny plates, by means of which it pierces the branches of trees to deposit its eggs. An English species (C. anglica) is found in the New Forest. The seventeen years' locust (Cicada septemdecim) occurs in many parts of the United States.

Cicala (chi-kā'la). The cicada.

Cicely (sis'e-li), a popular name applied to several umbelliferous plants. Sweet cicely, or sweet chervil, is Myrrhis odorāta, a plant common in Britain and in other parts of Europe. It was formerly used in medicine, and in some parts of Europe is used as an ingredient in soups. Sweet cicely is found in our woods from Canada to

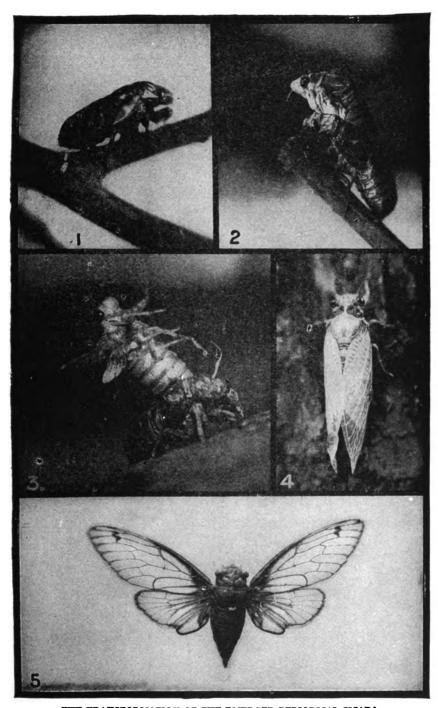
in one of his operas at the Haymarket serving a campaign in the Marsic war. Theater. Handel composed pieces ex- At the age of twenty-five he came for-

masters of oratory. Here he formed furnish such interesting evidence. He also made a tour in Asia Minor and remained some



time at Rhodes, Cicero.—Antique bust, where he visited the most distinguished orators and took part in their exercises. orators and took part in their exercises. On his return to Rome his displays of eloquence proved the value of his Grecian instruction, and he became one of the most distinguished orators in the forum. In B.C. 76 he was appointed questor of Sicily, and behaved with such justice that the Sicilians gratefully rememberd him and requested that he would conduct their suit segint their grayprox Varres. their suit against their governor Verres. He appeared against this powerful robber, and the crimes of Verres were painted in the liveliest colors in his immortal speeches. Seven of the Verrine orations are preserved, but only two of them were delivered, and Verres went into voluntary delivered, and Verres went into voluntary exile. After this suit Cicero was elected to the office of ædile, B.C. 70, became prætor in 67, and consul in 63. It was now that he succeeded in defeating the conspiracy of Catiline (see Catiline), after whose fall he received greater honors than had ever before been bestowed upon a Roman citizen. He was hailed as the saviour of the state and the father of his country (parens patriw), and thanksgivings in his name were voted to the gods. But Cicero's continue had now reached the culminating were voted to the gods. But Cicero's fortune had now reached the culminating ingredient in soups. Sweet cicely is fortune had now reached the culminating found in our woods from Canada to Virginia.

Cicero (sis'e-rō), MARCUS TULLIUS, the greatest of the Roman ing to law, and Cicero, as chief magisorators, was born 106 B.C. at Arpinum. His family was of equestrian rank, and larity. Publius Clodius, the tribune of the his father, though living in retirement, was a friend of some of the chief public men. The received the best education available, strated by thiosophy and law, became familiar with Greek literature, and acquired some military knowledge from from the culminating point, and soon was to decline. The Catilinarian conspirators who had been executed had not been settenced according to law, and Cicero, as chief magistrate, was responsible for the irregularity. Publius Clodius, the tribune of the people, raised such a storm against him that he was obliged to go into exile (B.C. 58). On the fall of the Clodian faction studied philosophy and law, became succeeded in regaining the influence he had once possessed. In B.C. 52 he be-



THE TRANSFORMATION OF THE EMERGED PERIODICAL CICADA

Fig. 1.—Pupa ready for transformation. Fig. 2.—Adult beginning to issue from pupal shell. Fig. 3.—Adult nearly free from pupal shell. Fig. 4.—Preshly transformed adult, the coloring immature. Fig. 5.—Adult, several hours after transformation, the coloring mature. About natural size.

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came proconsul of Cilicia, a province which he administered with eminent success. As soon as his term of office had expired he returned to Rome (B.C. 49), Cicindela (si-sin-de'la), a genus of which was threatened with serious disturbances owing to the rupture between turbances owing to the rupture between Casar and Pompey. He espoused the common of American species, belongs.

Ciconia (si-kō'ni-a), the genus of birds to which the stork belongs. Pharsalia he made his peace with Cæsar, with whom he continued to all appearance belongs. friendly, and by whom he was kindly treated, until the assassination of the latter (44 B.C.). He now hoped to regain this political influence. The conspirators Hemlock. shared with him the honor of an enter-Cid (sid), an epithet (from the Ar.) his political influence. The conspirators Hemlock.

shared with him the honor of an enterprise in which no part had been assigned him; and the less he had contributed to it himself the more anxious was he to of Bivar (born in 1026; died in 1009), justify the deed and pursue the advantages which it offered. Antony having himself by his exploits in the reigns of taken Cæsar's place, Cicero composed those admirable orations against him, deleon and Castile; but the facts of his light of the pre known to use or the property of the caster have been so mixed with eprifying himself of the consulate, and formed an alliance with Antony and Lepidus, Cicero was proscribed. In endeavoring to escape from Tusculum, where he was living Corneille. Whatever chronicles and when the news of the proscription arrived, he was overtaken and murdered by a party of soldiers; and his head and hands were publicly exhibited in the forum at Rome. He died in his sixtyfourth year, B.C. 43. Cicero's eloquence has always remained a model. After the revival of learning he was the most admired to run into casks, where it is freely exof the ancient writers; and the purity palec him in the first rank of Roman classics. His works, which are very numerous, consist of orations; philosophical, rheorical and moral treatises; and letters to Atticus and other friends. The life of Cicero was written by Plusterch, and there are modern lives by Middleton, Forsyth and others. Cicero B.C. 65, was carefully educated, and distentially educated, and distinguished himself in military service. In B.C. 30, Octavianus (Augustus) assumed him as his colleague in the consulship, and he was afterwards governor of Asia or Syria.—Cicero's younger brother, Quinton, was a man of some note both as a public character and as a writer. He was married to a sister of Atticus, and was put to death at the same time as the contact.

Omposed about the end of the twelfth century. The story of his love for Corneille. Whatever chronicles and composed about the subject of Le Cid of Corneille. Whatever chronicles and conveyed to us of the history of the Cid is collected in Southey's Cider (si'der), a liquor made from the expressed juice of apples. The apples are ground and crushed to run into casks, where it is freely exposed to the air until fermentation takes apples are ground and crushed to run into casks, where it is freely exposed to the air until fermentation takes apples are ground and crushed to run into casks, where it is freely exposed to the air until fermentation takes apples are ground and crushed to run into casks, where it is freely exp the orator.

those admirable orations against him, delicen and Castlle; but the facts of his livered in B.C. 43, which are known to us career have been so mixed with glorifying by the name of *Philippics* (after the myths that it is scarcely possible to speeches of Demosthenes against Philip of separate them. His life, however, aphacedon). His implicable enmity to pears to have been entirely spent in wards Antony induced him to favor young fierce warfare with the Moors, then maceuon). In impracable enmity topears to have been entirely spent in
wards Antony induced him to favor young fierce warfare with the Moors, then
Octavianus, who professed to entertain masters of a great part of Spain. His
the most friendly feelings towards him. exploits are set forth in a special chronOctavianus, however, having possessed icle, and in a Castillian poem, probably
himself of the consulate, and formed an composed about the end of the twelfth
alliance with Antony and Lepidus, Cicero
was proscribed. In endeavoring to escape
Ximena is the subject of Le Cid of
from Tusculum, where he was living
Corneille. Whatever chronicles and
when the news of the proscription arsongs have conveyed to us of the bistory

fully made up, and intended to be

smoked by lighting at one end and drawing the smoke turough it. The choicest into mechanical conventionalism. His cigars are those made in and imported from Havana. Cigars are consumed in Maria Novello at Florence, and in the enormous quantities in America and Europe. Medicated cigars, or cigars made of some substance having remedial properties, are often used for certain complaints, as stramonium cigars for asthma. *Cheroots* are peculiarly-shaped cigars much thicker at one end than the other, and are largely imported from Manila.

Cigarette (sig-a-ret'), a sort of small cigar made by rolling finecut tobacco in thin paper specially pre-pared for the purpose. It is now a favorite form with smokers and immense

pared for the partial favorite form with smokers and mumbers are used.

Cignani (chê-nyā'nê), Cablo, an Italian painter, born at Bologna in 1628; died 1719; the last great painter of the Bolognese school. His finest paintings are frescoes in the saloon of the Farnese Palace, Bologna, and in the cupola of the Church of the Madonna del Fuoco at Forli. His paintings have been engraved by various artists.

Cigoli (chê'go-lê), Ludovico Cardi.

Cilia (sil'i-a; L. 'eyelashes'), small generally microscopic, hairlike organs or appendages, averaging 1/2000 in length, found on the surface of which are comic. His bestinch in length, found on the surface of the tissues of most animals, and in some vegetable organisms (as Volvoz), chiefly on tissues which are in contact with water, or which produce fluid secretions. They are constantly in a state of active movement, and communicate to the fluid gave the name Chersonesus Cimbrica with which they are in contact a corresponding motion. This is called vibratile connected them with the Scythian Cimmeri of the climary motions. In most of the lower meriful of the Crimea; while modern writers suppose that they were Celtic, and that Cimbri is the same as the Cymri of the lower meriful of the Crimea; while modern writers connected them with the Scythian Cimmeri of the Crimea; while modern writers connected them with the Scythian Cimmeri of the Crimea; while modern writers connected them with the Scythian Cimmeri of the crimea; while modern writers connected them with the Scythian Cimmeri of the crimea; while modern writers connected them with the Scythian Cimmeri of the crimea; while modern writers connected them with the Scythian Cimmeri of the crimea; while modern writers connected them with the Scythian Cimmeri of the crimea; while modern writers connected them with the Scythian Cimmeri of the crimea; while modern writers connected them with the Scythian Cimmeri of the crimea; while modern writers connected them with the Scythian Cimmeri of the crimea; while modern writers connecte aquatic animals the respiratory function is aided by means of the vibratile cilia; many animalcules move by a similar mechanism; and in the highest classes of animals cilia have a share in the personal cilia have a share cilia cilia have a share cilia cilia cilia have a share cilia ci of animals clila have a share in the performance of some important functions. Consul Marius at Vercelli B.C. 101.

Cilicia (si-lish'e-a), in ancient geography, the region between Pamphylia and Syria, lying s. of Mount Taurus. Alexander made Cilicia a Macedonian province; it then passed to the Syrians. Under Augustus it became and Asiatic Sarmatia (the country of an imperial province. It now forms the Turkish vilayet of Adana.

Cimmerians (si-me'ri-ans), an ancient nomadic tribe that occupied the Tauric Chersonese (Crimea) the lower Volga). They are said, in pre-Homeric times, to have ravaged Asia Minor and in second invasion to have



ers suppose that they were Celtic, and that Cimbri is the same as the Cymri of Britain. In the second century B.C. they made formidable incursions into Gaul and Spain, but were finally routed by the Consul Marius at Vercelli B.C. 101.

Macedonian province; it then passed to the Syrians. Under Augustus it became and Asiatic Sarmatia (the country of an imperial province. It now forms the Turkish vilayet of Adana.

Cimabue (chê-mâ-bő'â), Giovann, Minor, and in a second invasion to have Italian painter, born at Florence in 1240; died probably in 1302. have held possession of Sardis. A myth-Two Greek artists, who were invited to Florence to paint a chapel in the Church of Santa Maria Novella, were his first thickest gloom were also termed Cimmasters. He is considered one of the chief restorers of the art of painting in phrase 'Cimmerian darkness.'

Cimolian Earth, or CIMOLITE in panicles or corymbs; calyx adherent, species of clay or hydrous silicate of alumens attached to corolla; ovary two-mina, named in ancient times from Cimcelled; fruit infeolos or Argentiera, one of the Cyclades, rior, dry or succu-where it is still to be found. It is of lent. They are whitish and soft texture, molders into a found almost exfine powder, and effervesces with acids. clusively in the In classical times it was used as a detertropics, and many gent, as a soap for cleaning delicate of the species are fabrics, and by the bath-keepers.

Cimolos (si-mō'los). See Argentiera.

Cimon (si'mon, ki'mon), an ancient emetics and purg-Athenian general and states-man, was a son of the great Miltiades. Am on g the fought against the Persians in the are Peruvian bark, battle of Salamis (480 B.C.), and shared quinine, i pec acu-with Aristides the chief command of the anha, coee, chaybattle of Salamis (480 B.C.), and shared quinine, i p.e.c. activity Aristides the chief command of the anha, coee, chay-fleet sent to Asia to deliver the Greek root to Asia to deliver the Greek root to Asia to deliver the Greek root to Asia to the head of the whole naval force of Greece. He distinguished himself by his achievements in Thrace, having defeated the Persians by the Strymon, and made himself master of the country. He conquered the pirate-island of Scyros, subdued all the cities on the coast of Asia Minor, pursued the Persian and Consider root of the Eurymedon, destroyed more than 200 of their ships, and then, having from the wasteful method of cutting landed, on the same day entirely defeated down the trees to get their bark it was their army (B.C. 469). He employed the naving deteated the Fersians by the Strymon, and made himself master of the country. He conquered the pirate-island of Scyros, subdued all the cities on the coast of Asia Minor, pursued the Persian fleet up the Eurymedon, destroyed more than 200 of their ships, and then, having landed, on the same day entirely defeated their army (B.C. 469). He employed the spoil which he had taken in the embellishment of Athens, and in 463 reduced the revolted Thasians; but the popular leaders, beginning to fear his power, charged him on his return with having been corrupted by the King of Macedon. The charge was dropped, but when Cimon's policy of friendship to the Lacedsmonians ended in the latter insulting the troops sent by Athens to their aid, his opponents secured his banishment. He retired into Bæotia, and his request to be allowed to fight with the Athenians charge was dropped, but when Cimon's sources of Peruvian bark. The bark is policy of friendship to the Lacedemonians ended in the latter insulting the troops sent by Athens to their aid, his opponents secured his banishment. He retired into Bœotia, and his request to be allowed to fight with the Athenians against the Lacedemonians in 457 at Tanagra was refused by the suspicious generals. Eventually Cimon was recalled at the instance of Pericles to conclude a peace with Lacedemon. He died shortly after, in 449, while besieging Citium in Cyprus.

Cinchona (sin-kō'na or sin-chō'na the composite the mouth of the Lickina copposite the characteristics.

importance as tonics, febrifuges,



believed that there would soon be a dearth of the valuable medicine, and hence cin-chona plants were taken from their na-tive regions and plantations formed in various tropical countries, so that Ceylon, India, Java, etc., are now important sources of Peruvian bark. The bark is

clude a peace with Lacedæmon. He died shortly after, in 449, while besieging Cinorth bank of the Ohio River, opposite the mouth of the Licking and 476 miles Cinchona (sin-kō'na or sin-chō'na; the mouth of the Licking and 476 miles Cinchona (sin-kō'na or sin-chō'na; the by water below Pittsburgh. Founded in 1788, it began to flourish after 1794. It of Chinchon, wife of a viceroy of Peru, a lady who was cured of fever by the bark in 1638), an important genus of central part is very compact, and a great trees, type of the order Cinchonaceæ, portion of the houses are handsomely which consists of gamopetalous, calvei built of freestone, blue limestone, or brickfloral dicotyledons, sometimes regarded as suborder of Rubiaceæ. They are States Government Building, the old City trees, shrubs, or herbaceous plants, with simple opposite leaves, flowers arranged Chamber of Commerce, the City Work-

one of the finest buildings in the Western States. The city is liberally provided with parks, of which, Eden Park (popularly styled the 'Garden of Eden') contains 209 acres, and Burnet Woods 165 cine (sin'a), LUCIUS CORNELIUS, an eminent Roman, an adherent acres. Spring Grove Cemetery is one of Marine who obtaining the consulability acres. Spring Grove Cemetery is one of the most beautiful in the country. Cincinnati ranks high as a manufacturing city, the annual output of its industries ranging from \$150,000,000 to \$200,000, the products include railway materials and supplies, carriages, furniture, while Marius blockaded it from the sea. leather, boots and shoes, clothing, candles, On its capture the friends of Sulla were soap and oils, liquors, etc. Next to Chicago, it is the greatest pork market themselves consuls (B.C. 86); but after the Union. It is also an important the death of Marius the army refused to horse market and a leading exchange for follow Cinna against Sulla, and put him horse market and a leading exchange for horse market and a leading exchange for follow Cinna against Sulla, and put him grain and pig iron. It is favorably situated for a distributing center, since, in addition to the river, railways and canals stretch from it in every direction, connecting it with every port on the great occurring abundantly in Spain, Calibakes from Chicago to Niagara, and with fornia, China, etc. It is of a cochineal-the principal eastern cities. It is connected by several bridges with Covington the name of vermilion. See Mercury and Newport on the Kentucky side of the one of vermilion.

Cincinnati, Society of constraints and one of them yields true constraints and one of them yields and one of the park yields and one of the park yields and one of the yields and on

Cincinnatus, Lucius Quincrius, a cian, born about 519 B.C. He succeeded in 460 to the consulship, and then retired to cultivate his small estate beyond the Tiber. In 458 s.c. the messengers of the acorn-shaped fruit. senate found him at work when they came The Ceylonese bark to summon him to the dictatorship. He their trees in April rescued the army, defeated the Æqui, and and Novem ber, returned quietly to his farm. At the age the bark curling of eighty he was again appointed dictator to oppose the ambitious designs of Spu- quills in the process Cinnamon (Cinnamorius Mælius.

Cinematograph (sin-ē-mat'ō-g r a f), an instrument consisting of a lantern with mechanism for projecting photographs on a screen in up into bundles. An oil of cinnamon is such rapid succession that the objects prepared in Ceylon, but the oil of cassia photographed appear to be in motion. is generally substituted for it; indeed, the These pictures are on a long film which is cassia bark is often substituted for cinnawound from one spool to another, each mon, to which it has some resemblance,

house, the new House of Refuge, etc. film being before the objective for an in-St. Peter's Roman Catholic Cathedral is stant, when a powerful light passes stant, when a powerful light passes through it. See Moving Picture Machine.

follow Cinna against Sulla, and put him

Ohio, the most noted being the fine suspension bridge erected in 1865 and reconstructed in 1897. Pop. 402,175.

Cincinnati, Society of the, an and the Polynesian Islands. All the organization originating species possess an around two properties.

tains the height of 20 or 30 feet, has oval leaves, paleyellow flowers, and acorn-shaped fruit. the bark curling up into rolls or



of drying; the mum seylanicum). smaller quills being introduced into the larger ones. These are then assorted according to quality by tasters, and made up into bundles. An oil of cinnamon is although in its qualities it is much Norman kings, on condition of providing weaker. The leaves, the fruit, and the a certain number of ships during war, root of the cinnamon plant all yield there being no permanent English navy

Cino da Pistoia (che'no da pes-to'-ya), an Italian jurisconsult and poet, born in 1270 at Pistoia. He was the friend of Petrarch and of Dante, and ranks among the best of the early Italian poets. His poems were first published at Rome in 1558.

Cinq-Mars (sank-mars), Henri Coir-Fier De Ruzé, Marquis De, favorite of Louis XIII, born in 1620, and introduced at court by Cardinal Richelieu. The king made him master of the robes and grand equerry of France when only in his nineteenth year and he of the robes and grand equerry of France when only in his nineteenth year, and he soon aspired, not only to a share in the management of public affairs, but even to the hand of the beautiful Maria di Gonzaga, Princess of Mantua. Thwarted, however, by the cardinal, Cinq-Mars concetted. cocted a plot for the overthrow of Richelieu, and entered into treaty with Spain. To propitiate Richelieu the king was compelled to sacrifice his favorite,

The term is often applied to ornament of the sixteenth century in general, properly included in the term Renaissance.

Cinque-foil (single-foil)

the Gothic style, consisting of five foliated the inscribed decrees of the senate. the Gothic style, consisting of five foliated the inscribed decrees of the senate. divisions, often seen in circular windows.

Cinque Ports (singk). originally the five English Channel ports of Hastings, Romney. Hythe, to England in 1754; died at London in Dover and Sandwich, on the s. E. coast of England, to which were added sub-of the Royal Academy, the diploma of sequently the towns of Winchelsea, Rye, and Seaford. They were granted special Bartologzi with the subjects of some of privileges by the later Rayon and earlier his finest engravings. privileges by the later Saxon and earlier his finest engravings.

oil of considerable value; that from the fruit, being highly fragrant and of thick consistence, was formerly made into candles for the sole use of the King of Ceylon.

Cinnamon-stone, a variety of garmon, hyacinth-red, yellowish-brown, or honey-yellow color, found in Scotland, lireland, Ceylon, etc. The finer kinds are used as gems.

Cinna do Pistoic (chând de noc to the being no permanent English navy previous to the reign of Henry VII. Each port returned two members to parliament, but after the Reform Act of 1832, Hastings, Dover, and Sandwich alone retained this privilege, Rye and Hythe returning one each, and the remaining towns none. Sandwich was afterwards disfranchised for corruption, and by the act of 1885, Hastings and Ireland, Ceylon, etc. The finer kinds are used as gems. and Rye ceased to be a borough. They are, collectively, in the jurisdiction of a lord warden, who receives \$15,000 a year for his sinecure.

Cintra (sen'tra), a town of Portugal, 15 miles w. N. w. Lisbon, finely situated on the slope of the Sierra de Cintra, and much resorted to by the wealthier inhabitants of Lisbon. The Cintra, and much resorted to by the wealthier inhabitants of Lisbon. The kings of Portugal had a palace with fine gardens at Cintra. The town is celebrated for the convention entered into there in 1808, by which the French, after their defeat at Vimeira, were conveyed to France. Pop. 5914.

Cione (chi-ô'nā), ANDREADL. See Orcagna.

Orcagna.

Ciotat (sē-ō-tā), La, a seaport of France, on the Mediterranean, 15 miles s. E. of Marseilles, surrounded by an old rampart, and having wellbuilt houses and spacious streets. Shipbuilding is carried on and an extensive coasting trade. Pop. 10,034.

was compelled to sacrifice his favorite, who was arrested at Narbonne and beheaded with his friend, the young councilor De Thou, at Lyons in 1642.

Cinque-cento (chěn'kwā-chen-tō; It., Greeks designated their numbers, or contraction for 1500, the century in which the revival took place), a term employed are at present, 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, in reference to the decorative art and architecture belonging to that attempt at architecture belonging to that attempt at until the eleventh century. For cipher purification of style and reversion to as applied to methods of secret writing classical forms introduced after the beginning of the sixteenth century in Italy.

criy included in the term *Renaissance*. ing an inscription. They served as Cinque-foil (singk'foil). in a r c h i- sepulchral monuments, as milestones and tecture, an ornament in boundaries, and in some cases to receive

Russia, lying chiefly on the north slope and afterwards had two sons by her. of the Caucasus, partly also on the south, and bounded on the west by the Black Circensian Games (sir-sen'si-an). and bounded on the west by the Black Sea, and now forming part of the lieutenancy of the Caucasus. The mountains, of which the culminating heights are those of Mount Elbrus, are intersected everywhere with steep ravines and clothed with thick forests, and the teritory is principally drained by the Kuban and its tributaries. Its climate is temperate, its inhabitants healthy and longived. The people call themselves Adighé, the circumference are equal to one another name Toherkess (robbers) being of Tatar origin. They are divided into several tribes speaking widely-different trigonometry. Properly the curve bedialects. While they retained their independence their government was of a security of the second order. A great pendence their government was of a patriarchal character, but every free Circassian had the right of expressing his opinion in the assemblies. They possessed none but traditional annals and and the women by the Turks as inmates of the harem, a position generally desired by the women themselves. The early history of Circassia is obscure. Between the 10th and 13th centuries it formed a portion of the empire of Georgia, but in 1424 the Circassians were an independent people, and at war with the Tatars of the Crimea, etc., to whose khans, however, some were occasionally tributary. In 1705 the Tatars were defeated in a decisive battle, but shortly feated in a decisive battle, but shortly after the territorial encroachments of the Russians on the Caucasian regions began, and in 1829 the country was formally annexed by them. A long and heroic resistance was made by the Circassians under their leader Schamyl, and on being reduced to submission numbers of the inhabitants emigrated to the Turkish provenies. The submission of a country for judicial purposes, to work towns in which indeed to the submission of a country for judicial purposes, to work towns in which indeed to the submission of a country for judicial purposes, to work towns in which indeed to the submission of the submission

Ulysses into swine after causing them for the purpose.

Circassia (sir-kash'i-a), or TCHER- to partake of an enchanted beverage.

KESSIA, a mountainous Ulysses under the guidance of Hermes region in the southeast of European compelled her to restore his companions,

is a curve of the second order. A great circle of a sphere is one that has its center coinciding with that of the sphere. The celebrated problem of 'squaring the circle' is to find a square whose area sessed none but traditional annals and circle' is to find a square whose area laws. Polygamy was permissible in shall be equal to the area of any given theory, but not common. The duties of circle. It is not possible to do so. All hospitality and vengeance were alike that can be done is to express approssibinding, and a Spartan morality existed mately the ratio of the length of the in the matter of theft. Their religion, circumference of the circle to the which is nominally Moslem, is in many diameter, and to deduce the area of the cases a jumble of Christian, Jewish, and figure from this approximation. If the heathen traditions and ceremonics. As a diameter be called unity, the length of race the Circassians are comely, the men the circumference of the circle is being prized by the Russians as warriors, 3.1415926535...; and the area of the and the women by the Turks as immates circle is found by multiplying this numof the harem, a position generally desired by the square of the radius. Thus by the women themselves. The early the area of a circle of 2 feet radius is history of Circassia is obscure. Between 3.14159 × 4. or 12.56636 square feet the 10th and 13th centuries it formed approximately. For trigonometrical calapproximately. For trigonometrical cal-culations the circumference of the circle is divided into 360 equal parts called de-grees, each degree is divided into 60 minutes, and each minute into 60 seconds. Circle, MURAL. See Mural Circle.

Circleville (sir'kl-vil), a city, capital of Pickaway Co., Ohio, on the Scioto River, 25 miles s. of Columbus. Its name is derived from a large circular earthwork, ascribed to the

habitants emigrated to the Turkish provinces. In the north and east, however, to some town or towns in which judges tribes of the Circassian stock remain. come at regular periods to administer justice.

The Circassians, properly so called, have been estimated to number from 500,000.

Circe (ser-so), a fabled sorceress of Greek mythology, who lived in the island of Ææa, represented by Homer more places successively, in the various as having converted the companions of circuits into which the country is divided Illyases into swine after causing them for the nurrosse.

bearing the names of certain foreign bankers who will cash such notes on presentation, in which letter the traveler must write his name. On presentation the foreign banker can demand to see the letter of indication, and by causing the presenter to write his name can compare the signature thus made with that in the letter, and so far satisfy himself as to the identity of the person presenting the

Circulating Medium. See Curren-

and simultaneous movements of composi-tion and decomposition manifested in or-ganic life are carried on. Although Galen, who had observed the opposite directions of the blood in the arteries and veins, may be said to have been upon the very point of discovering its circulation, the discovery was reserved for William Harvey, who in 1628 pointed out the conproportion of blood to the heart to maintain the supply. In 1661 Malpighi exhibited microscopically the circulation in the blood passed from arteries to veins by capillaries or intermediate vessels. This finally established the theory with regard to animals, but the movements of sap in vegetables were only traced with difficulty and after numerous experiments. Many physiologists indeed are still disposed to Circumcision (sirkum-sizh-un), the refuse the term 'circulation' to this portion of the economy of plants; but though from the male generative organ, a surtion of the economy of plants; but though from the male generative organ, a sursap, unlike the blood, does not exhibit gical operation sometimes required by movements in determining vessels to and anatomical conditions. Also a rite comfrom a common center, a definite course mon among the Semites, though by is observable. In the stem of a dicotnomeans peculiar to them, and possibly yledonous tree, for example, the sap deducted by them from the Egyptians or scribes a sort of circle, passing upwards from some non-Semitic source. At any from the roots through the newer woody rate, the antiquity of its institution in tissue to the leaves, where it is elaborated Egypt is fully established by the monumder the action of air and light; and ments, which make it evident that it thence descending through the bark towards the root, where what remains of it earlier than the Exodus. It was, howise ither excreted or mixed with the new ever, a primitive Arab custom, and its duid, entering from the soil for a new practise among the Jews may with period of circulation. In infusorial equal probability be assigned to an Arab

Circular Notes (sir'kū-lar), notes or animalcules the movement of the fluids of letters of credit furthe body is maintained by that of the nished by bankers to persons about to animal itself and by the disturbing intravel abroad. Along with the notes the fluence of nutritive absorption. In the traveler receives a letter of indication' Coelenterata (zoophytes, etc.) the movement of coefficients and the state of the sta ment receives aid besides from the action of cilia on the inner walls of the body. The Annelids, as the earthworm, possess contractile vessels traversing the length of the body. The Insects, Crustaceans. Myriapods, and Spiders have a dorsal tube, a portion of which may be specially developed as a heart. The blood is driven to the tissues, in some cases along ting the arterial trunks, being distributed not in special vessels, but simply through the Curren interstices of the tissues. From the tissues it is conveyed, it may be, by in an special venous trunks to a venous sinus Circulation (sér-kū-lā'shun), in an special venous trunks to a venous sinus organism, the flowing of which surrounds the heart and opens into sap or blood through the veins or channels, by means of which the unceasing have the heart provided with an auricle and simultaneous movements of composite and a ventriale again the small and have the heart provided with an auricle and a ventricle, as in the snail and whelk; two auricles, one on either side of the ventricle, as in the fresh-water mussel; or two auricles and two ventricles, as in the ark-shells. Among the ascidians, which stand low in that division of animals to which the molluses belong. point of discovering its circulation, the of animals to which the molluscs belong, discovery was reserved for William the remarkable phenomenon is encountarvey, who in 1628 pointed out the content of an alternating current, which is tinuity of the connections between the rhythmically propelled for equal periods heart, arteries, and veins, the reverse in opposite directions. All vertebrated directions taken by the blood in the animals (except Amphioxus) have a different vessels, the arrangements of heart, which in most fishes consists of an valves in the heart and veins so that the blood could flow only in one direction, fishes (Lepidosiren) there are two auriand the necessity of the return of a large cles and one ventricle; and this trilocular proportion of blood to the heart to main- heart is found in the amphibians, and of animals to which the molluscs belong. heart is found in the amphimans, and in most reptiles except the crocodiles, which, like birds and mammals, have a the web of a frog's foot, and showed that four-chambered organ consisting of two auricles and two ventricles. In these two last-named classes the venous and arterial blood are kept apart; in the trilocular hearts the two currents are mixed in the ventricle. For circulation in man and the higher animals see Heart.

Circumcision (sirkum-sizh-un), the removal of the foreskin

confined to no single race. It was confined to no single race. It was practised by the Aztecs and other peoples of Central America, and is still to be found among tribes on the Amazon, among the Australian tribes, the Papuans, the inhabitants of New Caledonia, and those of the New Hebrides. parapet, with a trench surrounding a In Africa it is common among the besieged place, or the camp of a besieging Kaffirs and other tribes widely removed army. from Semitic influence. It is practised Circus (ser'kus), among the Romans, also by the Abyssinian Christians, and although not enjoined in the Koran has out a roof, in which public chariot-races been adopted by the Mohammedans on the and exhibitions of pugilism and wrestling, example of Mohammed himself. It was possibly in its origin a sacrifice to the

Whatever its origin, the rite is Circumstantial Evidence.

etc., took place. It was rectangular, except that one short side formed a halfdelty presiding over generation, though circle; and on both sides, and on the in certain nations the rite has acquired semicircular end, were the seats of the in certain nations the rite has acquired a new symbolic significance according to the stage of their spiritual development. Circumcision is also the name of a circus was surrounded with colonnades, feast, celebrated on the 1st of January, galleries, shops, and public places. The in commemoration of the circumcision of largest of these buildings in Rome was our Saviour. It was anciently kept as a the Circus Maximus, capable, according fast, in opposition to the pagan feast on that day in honor of Janus.

Circumnavigation (sir-kum-navigations of a cording to Aurelius Victor, 385,000 spectators. At present, however, but few vestiges of it remain, and the circus of term signifying a sailing round the earth. Earliest to succeed in this was Magellan, The games celebrated in these structures a Portuguese in the service of Spain, who headed the first expedition which sucterm signifying a sailing round the Earliest to succeed in this was Magellan, a Portuguese in the service of Spain, who headed the first expedition which succeeded in circumnavigating the globe, of the circus, which under the emperors though he did not live to complete the attained the greatest magnificence. The voyage. He sailed with five ships from principal games of the circus were the San Lucar September 20, 1519, passed the straits named after him in November, Games), which were celebrated from the 1520, and was killed in the Philippine Is
April, 1521, Juan Sebastian del the great gods, so called. The passion of the common or poorer class of people for these shows appears from the cry with the show addressed their rulers—and the great gods. Cano continuing the voyage and reaching the common or poorer class of people for San Lucar with the only remaining ship the common or poorer class of people for San Lucar with the only remaining ship the shows appears from the cry with in September, 1522. The principal early which they addressed their rulers—navigators, after Magellan, who succeeded in making the voyage round the globe games! The festival was opened by a were Grijalva and Alvaradi (Spaniards), splendid procession, or pompa. in which 1537; Mendana (Spanish), 1567; Drake the magistrates, senate, priests, augurs, (English), 1577-80; Cavendish, 1586- vestal virgins, and athletes took part, 28; Le Maire (Dutch), 1615-17; Quiros (Spanish), 1625; Tasman (Dutch), great gods, the Sibylline books, and some-1642; Cowley, 1683; Dampier, 1689; times the spoils of war. On reaching the Cooke, 1708; Clipperton, 1719; Roggieric the procession went round once in gewein (Dutch), 1721-23; Anson, 1740-44; Byron, 1764-66; Wallis, 1766-68; the spectators took their places, and the Carteret, 1766-69; Bougainville, 1760-69; games commenced. These were: 1. Races Cooke, 1768-71; and Portlocke, 1788.

Circumnutation (-nu-tā'shun; lit. a nodding round about'), a name given by Darwin to the games, prize contests on horseback, recontinuous motion of every growing part vived by Julius Cæsar. 4. The combats about), a name given by Darwin to the games, prize contests on norseback, recontinuous motion of every growing part vived by Julius Cæsar. 4. The combats of every plant, in which it describes with wild beasts, in which beasts fought irregular elliptical or oval figures. The with beasts or with men (criminals or apex of the stem, for instance, after volunteers). 5. Representations of naval pointing in one direction, moves round engagements (naumachiæ), for which till it points in the opposite direction, purpose the circus could be laid under water. The expense of these games was

Cirencester Cistercians

often immense. Pompey, in his second Mantuan and the Venetian provinces, consulship, brought forward 500 lions at Bergamo, Brescia, Crema, Verona, and one combat of wild beasts, which, with Rovigo, the duchy of Modena, the princieighteen elephants, were slain in five pality of Massa and Carrara, Bologna, days. The modern circus is a place Ferrara, and Romagna, and eventually

sis'es-tèr), a town of England, county tian Kingdom.
and 18 miles s. E. of Gloucester; founded Cisleithania (sis-li-thā'ni-a), CISLEITHAN PROVINCES, Australia Patrana and subsequently, by the ancient Britons, and subsequently, under the name of Corinium, a Roman tria proper or Austria west of the river station. It has a well-known Royal Leitha, which partly forms the boundary Agricultural College. The trade is chiefly between it and Hungary. See Austria.

tissue which gradually encroaches on and Cist (sist), a place of interment of an by compression destroys the true structure of the organ attacked. It is very ing of a rectangular stone chest or enfequent in the liver as a consequence of spirit-drinking; and hence the term 'drunkard's liver.'

Cirripedes (sir'i-pedz), CIRRIPE'DIA, or CIRRHOP'ODA, a class of marine invertebrate animals, having a of marine invertebrate animals, having a soft body provided with very long, articulated, tendril-like limbs (oirri), which are protruded and rapidly withdrawn within the multivalve shell. They are crustaceans which have undergone retrograde metamorphosis, being free-swim-tricts cists are found in barrows or mounds, enclosing bones. In rocky disgrade metamorphosis, being free-swim-tricts cists were sometimes hewn in the ming in the larva form, but becoming rock itself.

Cistaceæ (sis-th-se-&), a natural order of polypetalous exogens, consisting of low, shrubby plants or herbs

the prolongation of a midrib.

Cirrus. See Cloud.

days. The modern circus is a place Ferrara, and Romagna, and eventually where horses are trained to perform, and its area was 16,337 square miles; its pop. where exhibitions of acrobats and various 3,500,000. The legislative body held its pageantries, and the tricks of clowns or sessions in Milan. On January 25, 1802, buffoons, are presented. Menageries of it received the name of the Italian Republic; from 1805 to 1814 it formed part of the kingdom of Italy; and it was Girencester, or Cicester (pron. colling and it was given to Austria by the Congress of the colling and it was given to Austria by the Congress of the colling and county tian kingdom.

agricultural. It was a parliamentary Cispadane Republic (sis 'ya-dan'), borough till 1885, and now gives name to a parl. div. of the county. Pop. 7632.

Cirrhosis (si-no'sis), a disease characterized by growth of fibrous Republic to form the Cisalpine Republic.



adult they are affixed to some substance, either set directly upon it, as in the genus sisting of low, shrubby plants or herbs Balanus; or placed on a foot-stalk, as with entire leaves and crumpled, generate barnacle; or sunk into the supporting ally ephemeral, showy flowers. Some exsubstance, as the whale-barnacle. See ude a balasmic resin, such as ladanum, from a Levant species of Cistus. See Cirrus (sir'rus; in plural Cirru), the Cistus.

Cirrus (timbs, usually a modified leaf or the prolongation of a midrib.

Cistercians (sis-ter'shanz), a religious order named from its original convent. Circus (Cistercians)

its original convent, Citeaux (Cister-cium), not far from Dijon, in Eastern Cirta (sir'ta), the capital of the ancient in 1998 by Robert, Abbot of Molesme, Massylii in Numidia. After the defeat of Jugurtha it passed into the of St. Benedict. The Cistercians led a second of the Romers and was a rectangle of the Romers and was a rectangle or the restaurance of the Romers and was a rectangle or rectangle o defeat of Jugurtha it passed into the of St. Benedict. The Cistercians led a sehands of the Romans, and was restored verely ascetic and contemplative life, and by Constantine, who gave it his own name. See Constantine.

Cisalpine (siz-al'pin) Republic, a supervision, formed a kind of spiritual republic under a high council of twenty-state set up in 1797 by five members, with the Abbot of Citeaux Napoleon I in North Italy, recognized by as president. Next to Citeaux the four Germany as an independent power at the chief monasteries were La Ferté, Pon-Peace of Campo Formio. It comprised tigny, Clairvaux (founded by the cele-Austrian Lombardy, together with the brated St. Bernard in 1115 and Mori-

Bernardines in honor of St. Bernard. Among the fraternities emanating from them the most remarkable were the Barefooted monks, or Feuillants, and the nuns



Cistercian.

Cistercian.

of Port Royal, in France; the Recollets, or reformed Cistercians; and the monks of La Trappe. There were a hundred Cistercian houses in England at the dissolution of monasteries. The general fate of religious orders during the French revolution reduced the Cistercians to a few convents in Spain, Poland, Austria, etc. There are still two or three houses in the British Isles. The Cistercians wear white robes with black scapularies.

Cistus (sis'tus), the rock-rose, a genus of plants of many species, order Cistaces, natives of Europe, or of the countries bordering the Mediter ranean. Some of them are beautiful evergreen flowering shrubs, ornamental in gardens or shrubberies. Gum ladanum is obtained from \$O\$. oreticus and \$O\$. Citron (sit'ron), Citrus mēdica, a small evergreen shrub yielding a fruit which is candied with sugar. The rind is considered superior to the pulp; it is imported in a preserved state, and confectionery. The juice is less acid than that of the lemon. See Citronella (sit'ron-el-a), OIL, an oil

ladaniferus.

In France they called themselves loftiest summit is 4620 feet in height. On its northern slope stood the city of Platæa.

Cithern, or CIT'TERN (s i t h' e r n, sit'ern, Latin cithara, Greek kithara), an old instrument of the guitar kind, strung with wire instead of gut. Its eight notes, G, B, D, and E.

It was frequently to be found in barbers' shops for the amusement of the waiting customers.

Cities of Refuge, Cittern, in South

six out of the forty-eight cities given to the Kensington Mueight cities given to the tribe of Levi in the division of Canaan, set apart by the law of Moses as places of refuge for the manslayer or accidental homicide. Their names were Kedesh, Shechem, and Hebron on the west side of Jordan; and Bezer, Ramoth-Gilead, and Golan on the east.

See Sodom and Gomor-Cities of the Plain.

Citronella (sit'ron-el-a), On, an oil obtained from a kind of Citadel (sit'a-del), a strong fortress Citronella obtained from a kind of in or near a city intended to grass (Andropogon nardus), cultivated keep the inhabitants in subjection, or to at Singapore and in Ceylon. It is used form a final point of defense in case of for scenting soap and driving away an attack of enemies.

form a final point.

an attack of enemies.

Citation (sit-ta'shun), a summons or Citrullus (sit-rurus).

cynth.

person to appear in a court as a party

Citrus (sit-rurus).

Citrus (sit-rurus). Cisteroians.

Cithæron (si-thë'ron), the modern leaf-like stalk; by having the stamens mountain of united by their filaments into several ir-Greece, which, stretching N. W., separates regular bundles, and by yielding a pulpy Bootia from Megaris and Attica. Its fruit with a spongy rind.—Citrus médics

is the citron. Other species are the lemon (Vitrus limonum), the sweet Chief industries: weaving woolen fabrics, orange (Vitrus aurantium), the bitter expressing oil and wine, and husbandry. (Citrus aurantium), and the forbidden fruit (Citrus paradisi), sometimes used as an ornamental addition to dessert. Ciudad-Real (thi-5-dâd-rā-âl', 'royal from the genus Citrus furnishes the essential oils of orange and lemon peels, of orange flowers, of citron peel, of bergamot, and oil of orange leaves—all much esteemed all diffice is the Church of Santa Maria, oils of orange leaves—all much esteemed and edifice is tructure, though consisting in perfumery. See Lemon, Orange, etc. Only of a single nave. Pop. 15,327.—Cittadella (chèt-tā-dâ'la), an old tructure of Padua, surrounded by walls. citron. ince of Padua, surrounded by Pop. 3627. walls. Pop. 3627.
Cittá-di-Castello (-dē kās'tel-ō), a miles. Pop. 321,580.
Cittá-di-Castello (thi-ō-dād-rod-rē'gō, Rodericktown'), a province of Perugia, on the Tiber, the seat of a bishop, with a cathedral containing valuable paintings. Pop. 6000.

Città-Vecchia (-vek'i-a, 'old city'), portance in early Spanish history as a fortified town of fortress on the Portuguese frontier, and the portance in the Penjagular. Malta, near the center and almost on the was of some importance in the Peninsular highest point of the island, 7 miles w. s. war, being taken by storm by the Britw. Valetta. The rise of the latter town ish under Wellington, after a siege of has almost ruined it, and its magnificent eleven days. The Cortes gave Wellinghouses and palaces are almost deserted. ton the title of Duke of Ciudad-Rodrigo. It has a large cathedral and interesting Pop. 8930.

houses and palaces are almost deserted. ton the title of Duke of It has a large cathedral and interesting Pop. 8930. catacombs. The ancient palace of the Grand Masters of the Order of Malta also remains. Pop. (1901) 7515. Civet (siv'et: Vivorra Cit'tern. See Cithern.

large towns. The ecclesiasucal sense of quary spots disposed in rows. They are the term city is a town which is, or has nocturnal, and prey upon birds and small been, the see of a bishop. This seems to animals, and may be considered as formbe the historical use of the term in Enging the transition from the musteline or land, and still possesses some authority marten kind to the feline race. The there, but to a considerable extent it has genus has been divided into two subbeen superseded by the wider one. In America the application of the term is genera—the true civets, having the pouch dependent upon the nature and extent of in which there is a simple depression inthe municipal privileges possessed by gread of a pouch. Two species of the corporations, and a town is raised to the first and eight of the second are at dignity of a city by special charter. Generally the term implies the existence of a mayor at the head of the municipality.

Ciudad (thi-ō-dad'), the Spanish word for city, appearing in many for city, appearing in many names of Spanish places.

Ciudad Bolivar (thi-ō-dad' bo-lē' bo-lē' coffensive, but when dluted with oll or twra.

Ciudadela (thi-ō-da-dā'là), a walled city and seaport, Span, cat) is easily tamed. there, but to a considerable extent it has genus has been divided into two sub-

Other species are the on the west side of the island of Minorca.

ten a magnitude structure, though consisting to only of a single nave. Pop. 15,327.—
bld The province occupies the south extremity of New Castile, between the parallel ranges of the Sierra Toledo and Sierra Morena; area, 7840 square a miles. Pop. 321,580.

Civet (sivet; Viverra), a genus of carnivorous mammals found in N. Africa, and in Asia from Arabia to City (sit'i; Latin, civitas) in a genMalabar and Java, and distinguished by
eral sense, a town holding, from
extent of population, favorable situation, collects the odoriferous fatty substance
or other causes, a leading place in the
community in which it is situated. form is intermediate between the weasel
Popularly, also, it is used to designate and the fox, and from 2 to 3 feet long
the old and central nucleus as distinby 10 inches high, is of a cinereous
guished from the suburban growths of color, tinged with yellow and marked by
large towns. The ecclesiastical sense of dusky spots disposed in rows. They are
the term city is a town which is or has nectural and prev upon birds and small Civic Crown (siv'ik), among the Romans, the highest milior slate. The discovery of metals contary reward, assigned to him who had stituted a great step in advance. Gold preserved the life of a citizen. It bore and copper came early into use, and the inscription 'Ob civem servatum,' that crown wore it in the theater, and sat next the senators, and when he came in all the assembly rose up as a mark of respect.

Civics (civ'iks), the science that treats of citizenship and the relations between citizens and the government. embraces ethics, or social duties; civil law, or governmental methods; economics, or the principles of finance and exchange; and the history of municipal development.

Cividale (che-ve-dă'lă), a walled town, Italy, Venetia, 8 miles E. N. E. of Udine. It has a large cathedral dating from the eighth century. Pop. 4174. Civil Death. See Death, Civil.

Civilization (siv-il-iz-ā'shun), the sum at any given time of the attainments and tendencies by which the human race or any section of it is removed from the savage state. The history of progress in civilization is usually presented from one of two points of view—the first conceiving the race as starting from a high civilization, to which in point of intellectual and moral power it has yet to return; the second viewing the civilization of any period as the re-sult of a constant and increasingly-suc-cessful stream of effort upwards from an origin comparable with the condition of history of civilization becomes the history the lower animals. The latter is the of the nation viewed from the standpoint prevailing scientific theory, which finds of moral, political, scientific, mechanical, the secret of progress in the interaction and general intellectual progress. of function and environment. According to it, primitive man, at first feeding on wild fruits and berries, and sheltering himself under overhanging rocks or caves, entered upon the stone age, in which, as the contemporary of the mammoth and cave-bear, he made himself sharp-edged tools by chipping the flakes of flint found in the drift under gravel and clay. In the newer stone age he learned the art of polishing these rough implements, with which he cut down trees to make canoes, killed wild animals for food, and broke their bones for marrow, or shaped them into weapons. Fire he turned to account into weapons. Fire he turned to account to hollow out trees, to cook his food, to fashion clay ware. Artificial means of fashion clay ware. Artificial means of Civil Law (jus civile), among the shelter were constructed by piling rude huts of stones, by digzing holes in the ground, or by driving piles into the beds of lakes and raising dwellings on them. The artistic instincts found expression in government. They contradistinguished it

is, 'for saving a citizen,' and was made of long time passed before iron was smelted oak leaves. The person who received the and substituted for bronze where hardness was required. Gradually the roving savage became a nomadic shepherd and herdsman, or a tiller of the soil, according to his environment. The practice of barter was in part superseded by the beginnings of some sort of currency. Gesture language gave place in part to an enlarged vocabulary, and picture-writing to the use of phonetic signs. In the In the meantime man had begun to question himself and the world on profounder issues, entering upon the myth-making age, in which was projected outwards on chief phenomena of nature some shadow of his own personality. The worship of the sun, moon, and stars, a faith in a future life, the worship of dead ancestors, future life, the worship of dead ancestors, fetishes, animals, etc., the belief in magic and witchcraft, all sprang into being. Prayer came spontaneously to him; the idea of propitiation by sacrifice would arise from his dealings with his fellows and his foes; the sacred books began to shape themselves. Tribal and national relations, arising from ties of family and exigencies of defense, were cemented by unity of faith, and the higher social unit began to perfect itself under the rule of the patriarch, the bravest warrior, etc. With varying needs, arising from diversity With varying needs, arising from diversity of environment, distinctions of nationality became more and more emphatic, and the

City Planning, a system now being the United States for the betterment and adornment of cities, definite plans being adopted in advance, to be worked up to, so that the development of the cities may be in definite lines. Comprehensive plans of this kind have been made in many cities and in some instances much has been done in carrying them out. An exhibition of such plans was made in the City Hall, Philadelphia in the spring of 1911, and showed that highly encouraging progress was being made, not only in that city, but in many other communities.

Civil List Civil Service

various legal relations of the different and the same vote was made at the commembers of the state—the citizens—and mencement of the reign of Queen Anno the public law (jus publicum), that is, and George I. By the beginning of the reign the rules respecting the limits, rights of George II the revenue appropriated obligations, etc., of the public authorities. to the civil list was found to have prother in a sixth century A.D. under the Emperor Justinian, but at first was only admitted as formally binding in a small part of Italy. After the eleventh century, and the regular vote, grants had been fremitted as formally binding in a small part of Italy. After the eleventh century, the in Upper Italy, particularly in the school of Bologna, the body of the Roman law, sixed at \$4,000,000, but instead of being put together by Justinian, was formed by degrees into a system applicable to which the crown lands were included, the wants of all nations; and on this degree the native laws of the new reign. In the reign of William IV the Teutonic states. From all these the Roman law was distinguished under the it, and placed at \$2,550,000, including a name of civil law. In this sense, therefore, civil law means ancient Roman law; tand laced at \$2,550,000, including a name of civil law, though the feudal George V. Many continental states have codes of the Lombards have been received a fixed civil list; that of Russia is into the corpus juris civilis, or body of \$7,050,000; of Turkey, \$4,600,000; of civil law. As the Roman code exerted the greatest influence on the private law of 000, to which an additional grant of modern Europe, the expression civil law. Therefore, in Charles in France rentered to the corpus pointments to the private rights of citizens. Under the term civil law, therefore, in America and Europe, is to be understood on the corpus pointments and the private rights of citizens. Under the term civil law, therefore, in Germany. Das entirely in the gift connected with the not only the Roman law, but also the modern p

from natural law (jus naturale), by penses proper to the maintenance of the which they meant a certain natural order household of the sovereign. It was once followed by all living beings; also from a principle in England, as in other the general laws of mankind established Teutonic nations, that the monarch was by the agreement of all nations and to pay all the expenses of government, governments (jus genisum). With the even including those of the army, from growth and multiplication of the edicts the possessions of the crown, and until issued by the prætors (in whose hands the Restoration the whole expense of was the supreme administration of the government continued to be defrayed justice) for the modification and extension of the positive enactments, a further of William, the Commons adopted the distinction became necessary, the whole principle of separating the regular and body of this prætorian law being known domestic expenses of the king from the by the name of jus konorarium as opposed to the strict formal law (jus civile). The tematic and periodical control over the latter, however, included both the private latter. The amount voted to the king for law (jus privatum), which relates to the life in 1697 was \$3,500,000 annually law (jus priodtum), which relates to the life in 1697 was \$3,500,000 annually various legal relations of the different and the same vote was made at the commembers of the state—the citizens—and mencement of the reign of Queen Anno

modern private law of the various count to the civil service in Great Britain were tries; for example, in Germany. Das entirely in the gift of the executive government beutsche Privatrecht; in France ernment, and were obtained by influence, the Code civil des Français or Code while the bestowal of them was used as Napoléon. In this sense it is chiefly opa means of gaining parliamentary supposed to criminal law, particularly in port on behalf of the government, but in reference to the administration of justice, 1855 a system of examinations was inwhich is to be divided into civil justice stituted to test the efficiency of candidates, and or in 1870 it was directed the tarming which is to be divided into civil justice.

Salt tried to test the efficiency of candidates, and criminal justice.

Givil List, in Britain, formerly the ments in the civil service should (with ments, with the exception of those of petition.—In the United States civil the army, navy, and other military deservice a system was inaugurated by partments. It is now limited to the exAfter 1870 attempts at establishing a better state of affairs were made, and in 1883 a bill introducing a system of civil service reform was passed by congress. The act creates a commission, composed of three members appointed by the president and senate, known as the Civil Service Commission. They were to provide rules for open competitive examinations for testing the fitness of applicants for the public service. Under the administration of Cleveland and those of the succeeding presidents the competitive system was greatly extended and it now embraces most of the departments of the government.

Civil War. See United States.

Civil War. See United States.

Clackmannan (klak-man'an), the smallest county of Clairvaux (klar-vo), a village of Grance, department of Scotland, containing little more than 47 Aube, celebrated for its magnificent abbey, Scotland, containing little more than 41 Aube, celebrated for its magnineent added, of the Forth, by which it is bounded s. W., but suppressed at the revolution. The exwhile on nearly all the other sides it is inclosed by the countries of Perth and Stirling. The north part of the country is occupied by the Ochil Hills, which are largely given up to sheep-farming, but Clairvoyance (klār-voi'ans; that is largely given up to sheep-farming, but the other portions are comparativaly level classed faculty by which certain persons

power conferred the various appoint composed a treatise on the four curves of ments on such of its members as had the third order, which, with his submost influence, or had done it most serve sequent Recherches sur les Courbes à ice, there being thus usually a great double Courbure, 1731, procured him a change of officials with each change of seat in the academy at the age of eight-president, on the understood principle een. He accompanied Maupertuis to that 'to the victors belong the spoils.' Lapland, to assist in measuring an arc After 1870 attempts at establishing a bet-of the meridian, and obtained the ter state of affairs were made, and in materials for his work Sur la Figure de

Urbanists. It has numerous convents in Europe and America.

occupied by the Ochil Hills, which are largely given up to sheep-farming, but the other portions are comparatively level and exceedingly fertile, yielding large crops of wheat and beans. The minerals are valuable, especially coal, which abounds. There are also some extensive inconworks, and some large breweries and distilleries; woolens are also manufactured, and tanning, glass-blowing, etc., carried on. The principal towns are Alloa, Tillicoultry, Dollar, and Clackmannan, the county town. Pop. 32,029. (Venus mercenaria) and the soft clam Cladium (klā'di-um), a genus of (Mya arenaria). The former are known plants, consisting of twenty-one species of wide distribution, natorder Cyperaceæ (or sedges). The C. Mariscus, or twig-rush, is a British perennial with kelled leaves, having a sharp point and prickly serratures. It is used on the American Atlantic coast very common in certain fenny districts in Cambridgeshire, etc., and is used for thatching.

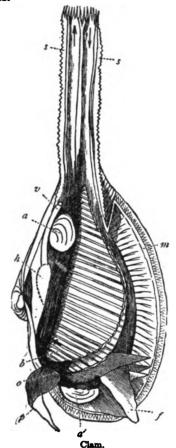
Clairac (klā-rāk), a town of France, department Lot et-Garonne, on the Lot. It was the first town in the south of France to declare in favor of the Reformation. Pop. about 3000.

Clairaut (klā-rō), Alexis Claude, Claimecy (klām-sē), a town of France, department hor mathem at tican, born at

Clairaut (klā-rō), Alexis Claude, Clamecy (klām-sē), a town of France, mathematician, born at Paris in 1713. In his eleventh year he Yonne. It has a fine church, founded in

Clap-net Clan

1497. Wood-rafts for the supply of Paris with firewood are made up here, and floated down the Yonne and Seine. Pop. 5812



Anatomy of a Bivalve Mollusc, Mya arenaria and nor influence.

(after Woodward). The left valve and mantlelebe, and half the siphons are removed. s s, Respiratory siphons, the arrows indicating the direction of the currents; a s', Adductor muscles
b, Gills; h, Heart; o, Mouth, surrounded by
(p) labial palpi; f, Foot; v, Anus; m, Cut-edge of
the mantle.

Cinex, though the latter have now neither
land nor influence.

(clap'am), a southern suburban district and parl.
brough of London. Clapham Common
set is a fine open space of over 200 acres.
(p) labial palpi; f, Foot; v, Anus; m, Cut-edge of
the mantle.

was frequently formed of that of the original progenitor with affix mac (son); thus the MacDonalds were the sons of Donald, and every individual of this name was considered a descendant of the clan, and a brother of every one of its members. The chief exercised his authority by right of primogeniture, as the father of his clan; the clansmen revered and served the chief with the blind devotion of children. The clans each occupied a certain portion of the country, and hostilities with neighboring clans were ex-tremely common. Next in rank to the chief were a certain number of persons, commonly near relations of the chief, to whom portions of land were assigned during pleasure or on short leases. Each of these usually had a subdivision of the clan under him, of which he was chieftain, subject, however, to the general head of the sept. The jurisdiction of the chiefs was not very accurately defined, and it was necessary to consult, in some measure, the opinions of the most influential clansmen and the general wishes of the whole body. It was latterly the policy of the government in Scotland to oblige the clans to find a representative of rank to become security at court for their good behavior; the clans who could not procure a suitable representative, or who were unwilling to do so, were called broken clans, and existed in a sort of out-The most notable instance of a lawry. The most notable instance or a proscribed and persecuted clan was that of the ancient clan MacGregor, who long continued to hold their lands by the coir a glaive, or right of the sword. The rebellions of 1715 and 1745 induced the British government to break up the connection which subsisted between the chiefs and the clansmen. The hereditary jurisdiction of the chiefs was therefore abolioistic and the clansmen. diction of the chiefs was therefore abolished, the people disarmed, and even compelled to relinquish their national dress. Few traces of this institution now remain, except such as have a merely sentimental character; thus all those who possess the same clan name may still talk of their 'chief,' though the latter have now neither land nor influence.

Clap (Gaelic, a tribe or family), among the Highlanders of Scotland, consisted of the common descendants of the They are placed about four yards apart, same progenitor, under the patriarchal control of a chief, who represented the inclose any birds on the intervening common ancestor. The name of the clan space.

on his return to England ceived the rank of captain, and mediately engaged in a second expedition, rostart from the Bight of Benin. Leaving Badagry, Dec., 1825, he penetrated to Katunga, within thirty miles of the Quorra or Niger, but was not permitted a lofty lighthouse.

Clare Island, an island County Mayo. It was a lofty lighthouse.

Claremont, (klar'e-mont), a town of New Hampshire, 50 miles w. N. W. of Concord, on the Sugar River, the falls of which supply large water-power, and feed to extensive manufactures of cotton, woolen, paper, machingary and Duke of

on the production of any new piece. They were sometimes called chevaliers-du-lustre,

Clapperton (clap'er-tun), Hugh, an Life and Scenery met with a favorable African traveler, born in reception, and the issue of his Village Annan, Dumfriesshire, in 1788. He Minetrel in 1821 won him many friends. Annan, Dumfriesshire, in 1788. He Minetrel in 1821 won him many friends, entered the merchant service, but was A subscription furnishing him with \$225 impressed into the navy, in which he became a lieutenant in 1816. He then accompanied Dr. Oudney and Lieutenant which he hawked himself, was not a success. He brought out a new work, the 1825, returning with valuable information, although the disputed question of shortly afterwards, the remainder of his the course of the Niger was left undecided. On his return to England Clapperton received the rank of captain, and immediately engaged in a second expedition, rural life are eminently truthful and to start from the Bight of Benin. Leav-

nim, and he died, April, 1827, at Chun-water-power, and feed to extensive manugary, a village near Soccatoo. He was factures of cotton, woolen, paper, machinthe first European who traversed the ery, etc. Pop. 7529.

whole of Central Africa from the Bight of Benin to the Mediterranean.

Claqueurs (klå-kewrs), the name given in Paris to a comfort of England. On his brother's accession, in pany of persons paid for applauding 1461, he was created Duke of Clarence, theatrical performances, more especially and in 1462 lord-lieutenant of Ireland, on the production of any new piece. They but afterwards igned the disaffected Warbut afterwards joined the disaffected Warwick, and married his daughter. On the from mustering in great force near the eve of battle he rejoined his brother, and center of the pit, below the chandelier.

Clara,

SANTA. See Clairs.

Warwick's younger daughter, about the warwick's younger daughter, about the inharitance of their fathaning. Clare (klār), a maritime county of inheritance of their father-in-law. On the death of his wife Clarence sought the tween Galway Bay and the Shannon hand of Mary of Burgundy, but Edward estuary; area, 827,994 acres, of which 140,000 are under tillage. The surface is irregular, rising in many places into having at this time been condemned for mountains of considerable elevation, particularly in the E., w., and N. w. dispare the principal crops. The chief minerals are limestone, lead, and slate, but the produce of the county is almost wholly The tradition that he was drowned in a agricultural. Lakes are numerous, but butt of malmsey wine is unsupported by generally of small size, and the county is evidence.

agricultural. Lakes are numerous, but butt of malmsy wine is unsupported by generally of small size, and the county is evidence. deficient in wood. The salmon-fisheries are valuable, and there are immense oyster-beds in some places. Capital, adopted in the tenth year of Henry II Ennis. It has lost largely in population (January, 1164), at a council of prelates through the miserable condition of the and barons held at the village of Clareneasantry. Pop. in 1841, 286,394; in 1901, 112,109.

Clare, John, 'the Northamptonshire brought forward by the king as 'the Clare, peasant poet,' born in 1793 at Helpstone, near Peterborough, where his enacted as such by the council, but they father was a farm-laborer. He led a really involved a great scheme of administrambling, unsteady life until 1818, when the was obliged to accept parish relief. supremacy of the state over clergy and In 1820 his Poems Descriptive of Rural laity alike. The power of the ecclesi-

Dinton, Wilts, where he was born in 1608. administration, and sought to vindicate After studying at Oxford and at the Mid-Lord Ormonde by a History of the Redle Temple he married, in 1629, the bellion in Ireland. daughter of Sir George Ayliffe, and, in Clarendon, GEORGE WILLIAM FRED-1632, Frances, daughter of Sir Thomas Clarendon, Aylesbury. He commenced his political career in 1640 as member for Wootton-He was educated at Cambridge, entered Basset, and was again returned to the the civil service at an early age, and in Long Parliament (November, 1640) by 1820 was attached to the embassy at St. the borough of Saltash, at first acting Petersburg. In 1834, as minister to with the more moderate of the popular Petersburg. In 1834, as minister to with the democratic movement until, by uncle's title in 1838 and in 1840, was the autumn of 1641, he was recognized appointed lord privy-seal, and in October him on an embassy to Madrid. Soon after his return he resumed the business 1858, being one of the signatories of the of the exiled court, first at Paris, and afterwards at The Hague, where, in 1657, sent as ambassador-extraordinary to the Charles II apnointed him lord-chancellor. Coronation of the King of Prussia, and in After Cromwell's death he contributed more than any other man to promote the Restoration, when he was placed at the head of the English administration. 1864 was again appointed chancellor of the duchy of Lancaster. In the follow-the Restoration, when he was placed at the head of the English administration. University of Oxford, and in 1861 was sent in 1868 on a special mission University of Oxford, and in 1861 was created Baron Hyde, Viscount Cornbury, again occupied the post of foreign secretary of the Duke of York with his daughter, Anne Hyde, confirmed for a time his Clarendon Press, the press of the University of Oxhim on an embassy to Madrid. Soon

astical courts was restricted, the crown secured the right of interference in his influence with the king declined, and elections to ecclesiastical offices, appeals his station as prime-minister made the to Rome were made dependent on the king's leave, ecclesiastical dignitaries ill success of the war against Holland, were deprived of their freedom to leave the sale of Dunkirk, etc. The king's districted the country without the royal permission, preasure deepened when his plan of reputer. Becket signed them, but retracted duating his wife and marrying the beautifus signature on the refusal of the Pope Alexander III to countenance them. don, who effected a marriage between Becket's murder followed, and to effect the lady stuart was defeated by Clarendor, who effected a marriage between Becket's murder followed, and to effect this lady and the Duke of Richmond. The king deprived him of his offices, an impeachment for high treason was comstitutions of Clarendon. They were accordingly modified in 1176 at Northampton in favor of the clurch, but they are six years at Montpellier, Moulins, and not less to be regarded as containing the germ of the ecclesiastical policy of Henry II.

Clarendon Edward Hyde, Earl of, his influence with the king declined, and his station as prime-minister made the nation regard him as answerable for the king's distinct present the sale of Dunkirk, etc. The king's distinct present the sale of Dunkirk, etc. The king's distinct was defeated by Clarendon, who effected a marriage between Becket's murder followed, and to effect this lady and the Duke of Richmond. The king deprived him of his offices, an impeachment for high treason was commenced against him, and he was compelled to seek refuge in Calais. He lived six years at Montpellier, Moulins, and Rouen, where he died in 1674. His remains were afterwards removed to Westminster Abbey. During his second exile the completed his History of the Rebellion. rem of the ecclesiastical policy of Henry II.

Clar'endon, Edward Hyde, Earl of, the completed his History of the Rebellion Indian, where he was born in 1608. Administration, and sought to vindicate After studying at Oxford and at the Mid-Lord Ormonde by a History of the Re-

Basset, and was again returned to the the civil service at an early age, and in Long Parliament (November, 1640) by 1820 was attached to the embassy at St. the borough of Saltash, at first acting Petersburg. In 1834, as minister to with the more moderate of the popular Madrid, he aided in negotiating the party, but gradually separating himself (Quadruple Alliance. He succeeded to his from the democratic movement until, by uncle's title in 1838 and in 1840, was the autumn of 1641, he was recognized appointed lord privy-seal, and in October as the real leader of the king's party in the house. Upon the breaking out of the He supported the repeal of the corn-laws civil war he joined the king at York, and the reduction of duties, and in 1846 was knighted, made privy-councilor, and was appointed president of the board of appointed chancellor of the exchequer. trade in Lord J. Russell's ministry, and After vainly attempting to bring about a in the following year lord-lieutenant of reconciliation between the contending Ireland. He resigned with his party in parties he accompanied Prince Charles to 1852, when the Earl of Derby took office, Jersey, where he began his History of the but soon after the formation of the Rebellion, and wrote answers in the king's Aberdeen ministry he was appointed to name to the manifestoes of the parliation and wrote answers in the king's Aberdeen ministry he was appointed to name to the manifestoes of the parliation and wrote answers in the king's Aberdeen ministry he was appointed to name to the manifestoes of the parliation and wrote answers in the king's Aberdeen ministry he was appointed to name to the manifestoes of the parliation and were and weeks' Charles at The Hague, and was sent by interval he returned to the post under him on an embassy to Madrid. Soon Lord Palmerston, and retained it until Lord Palmerston, and retained it until 1858, being one of the signatories of the Treaty of Paris. In 1861 Clarendon was

ford, established in 1586. Here all the Clark,

spinet. Sometimes called the dumb spinet.

Clarification (klar-i-fi-kā'shun), or the separation of the insoluble particles that prevent a liquor being transparent, may be performed by depuration, in which the liquor is graduate work in the sciences. It was allowed to stand until the particles are founded by Jonas G. Clark. There is an precipitated, and then decanted; by institution of the same name at Atlanta, filtration, or straining through wood, Georgia, founded in 1870, and confined to sand, charcoal, etc.; or by coagulation, in which the albumen contained in or added to the liquid is solidified and precipitated.

Clarke, writer born at English which the albumen contained in or added to the liquid is solidified and precipitated, the extraneous substances being precipitated with it. Now commonly effected by centrifugal machines. See also Fising.

Clarinet (klari-net), or CLARIONET, a wind-instrument of the reed kind, played by holes and keys. Its lowest note is E below the F clef, from ever, by the edition of Shakespere which his is capable, in the hands of good performers, of ascending more than three octaves. The keys of C and F, however, and by the Shakespere Key (1879). He are those in which it is heard to most died in 1877.

B, and G clarinets. advantage, though there are B flat, A, D, Clark, Charles Herer, an American B, and G clarinets.

B, and G clarinets.

Clarion (klar'i-un), a musical instrument of the trumpet kind, ment of the

Cannon as Speaker of the House.

printing for that university is done.

Claret (klar'et), the name given in Britain, America, etc., to the red wines of Bordeaux. A large quantity of wine produced in California is also called by this name, and is of a very excellent quality. The name has become generic. See Bordelais Wines.

Clarichord (klar'i-kord), or CLAV'I-CHORD, an old keyed instrument, somewhat in the form of a spinet. Sometimes called the dumb spinet.

Clarification (klar-i-fi-kā'shun), or Clarification (klar-

ject-glasses.—His son, ALVAN GRAHAM in Sussex in 1769, entered Jesus College, CLARK (1832-1897), succeeded him in Cambridge, in 1786; and was made a business and completed the Lick 36-inch fellow in 1798. In 1799 he set out on refracting telescope in 1886 and the Yerkes 40-inch in 1897. He made many discoveries in double stars. refracting telescope in 1886 and the Yerkes 40-inch in 1897. He made many discoveries in double stars.

Clark, Champ, Congressman, was born in Anderson Co., Kentucky, in 1850. He became president of Marshall College, W. Va., in 1873, and afterwards elected to Congress from Missouri in 1893, 1895, and since 1897 has served continuously. He was permanent chairman of the Democratic National Convention in 1904, and in 1911 was elected to Congress to succeed Cannon as Speaker of the House.

An extensive tour through Europe, Asia an extensive tour through Europe, Asia, and Africa.

Classification

Clarke, SAMUEL, an English theo-logical and philosophical writer, born in 16:5 at Norwich, where writer, born in 16:0 at Norwich, where National Convention. His labors went his father was an alderman; educated far to secure the prohibition of the slave at Caius College, Cambridge. He became trade in 1807 and the emancipation act chaplain to Dr. More, bishop of Norwich, of 1833. His death took place in 1846. and between 1699 and 1701 published His literary works comprise: A Por-Essays on Baptism, Confirmation, and traiture of Quakerism (1806); History Repentance, replied to Toland's Amyntor, of the Abolition of the Slave Trade and issued, a paraphress of the Georgia (1908) Repertance, replied to Toland's Amyntor, of the Abolition of the Slave Trade and issued a paraphrase of the Gospels. (1808).

He was then presented with two livings, Clarksville (klarks'vil), a city of and in 1704 and 1705 twice delivered the Boyle lectures at Oxford on The Boing Montgomery Co., on the Cumberland and Attributes of God, and on The Evi-River, 65 miles below Nashville. Here is dences of Natural and Revealed Religion. the Southwestern (Presbyterian) Uni-In 1706 he published a letter to Mr. Dod-versity. The city is largely engaged in the Insect alive of the Southwestern and the toleron trade and here other induswell on the Immortality of the Soul, and a latin version of Newton's Optics. He was then appointed rector of St. Bennet's, went on the Immortance of Newton's Optics. He tries. Pop. 8548.
was then appointed rector of St. Bennet's, Clary (kla'ri; Salvia Sclarea), a plant London, and shortly afterwards rector of the Salvia or sage genus, used of St. James' and chaplain to Queen for flavoring soups and confectionery. Anne. In 1712 he edited Casar's Comtestionery, mentaries, and published his Scripture cinnamon, and a little ambergris to make Doctrine of the Trinsity, which became a clary water, regarded as a help to subject of much controvery and of comdignation. subject of much controversy and of com-digestion. plaint in the Lower House of Convoca-Classic

church, and studied at St. John's College, Cambridge, where he gained the vice-chancellor's prize for a Latin essay on the theme, 'Anne liceat invitos in servitution to make slaves notions of them, according to their researches for this dissertation roused in object is to provide that things shall be him a passionate antagonism to the slave thought of in such groups. and the groups trade, and he allied himself with the Quakers and with Wilberforce. While the remembrance and ascertainment of the latter advocated the agitation may be classified in a variety of ways,

throughout England, even crossing to France to obtain the cooperation of the National Convention. His labors went His literary works comprise: A Por-traiture of Quakerism (1806); History of the Abolition of the Slave Trade (1808).

the tobacco trade and has other indus-

Doctrine of the Trinity, which became a subject of much controversy and of complaint in the Lower House of Convocation. His chief subsequent productions were his discussions with Leibnitz and Collins on the Freedom of the Will, his Latin version of part of the Iliad, and a considerable number of sermons. He died in 1729. His philosophic fame rests on of God, his theory of the nature and obligation of virtue as conformity to certain relations involved in the eternal sin relations involved in the eternal obligation of virtue as conformity to certain relations involved in the eternal standard works of any nation; and 2, and there is the models. The Germans, however, soon gave the word klassisch (classical) a wider sense, making it embrace: 1, the standard works of any nation; and 2, ancient literature and art, in contradistinction to the modern; and their transplements of the columbia, in Washington. Clarke's River, a river of the winding n. w. course of about 700 miles, fing in the Rocky Mountains, and after a winding n. w. course of about 700 miles, fing in the Rocky Mountains, and after a winding n. w. course of about 700 miles, fing in the Rocky Mountains, and after a winding n. w. course of about 700 miles, fing in the Rocky Mountains, and after a winding n. w. course of about 700 miles, fing in the Rocky Mountains, and after a winding n. w. course of about 700 miles, for the country of the make of the make of the country of the countr

will be obvious that in correct classification the definition of any group must students. hold exactly true of all the members of that group and not of the members of any other group. The best classification dian), a Latin poet, native of Alexanagain will be that which shall enable the greatest possible number of general assertions to be made; a criterion which distinguishes between a natural and an sons. He did much to recall to dying artificial system of classification. Classification interesting the spendors of the Augustan Rome the splendors of the Augustan literature, ranking considerably above any

Arnauld and Bossuet, and on the revocation of the Edict of Nantes took refuge in The Hague, where he died in 1687.

His chief work was the Défense de la Clau'dius, CLAUD

Rigiormation (1673).

Claude (klod), St., a town of France, department of the Jura, at the confluence of the Bienne and Tacon. It is the see of a bishop, and has a handsome cathedral and communal college, and a fine promenade along the Bienne. It is celebrated for turnery, hardware, musical boxes, etc. Pop. 9024.

Claude Lorraine (klaud, or klod, lor-ran'), a land-scape painter whose real name was Claude Gelée, but who was called Lorraine from When twelve years old he went to live with his brother, an engraver in wood at with his brother, an engraver in wood at Friburg, went from him to study under Godfrey Waats at Naples, and was afterwards employed at Rome by the painter Agostino Tassi, to grind his colors and do the household drudgery. On leaving reign were marked by the restoration of the exiles, the emgerany, but settled in 1627 in Rome, where his works were greatly sought for and where he lived much at his ease until 1682, when he died of the gout. The principal galleries of Italy, France, England, Spain and Germany are adorned with his paintings, that on which he himself set the greatest value being the painting of a small wood belonging to the Villa Madama (Rome). He excelled in luminous atmospheric effects, of which he made loving and elaborate studies. His igure work, however, was inferior, and the figures in many of his paintings were any many of his songs have become a supplied by Lauri and Francesco Allegrini. supplied by Lauri and Francesco Allegrini. part of the national melodies. In later He made small copies of all his pictures life he became a convert to religious in six books known as Libri di Verità mysticism, and died at Hamburg in 1815, (Books of Truth), which form a work after having filled several public offices.

no fixed method can be laid down; but it of great value (usually called the *Liber* will be obvious that in correct classifica- *Vertatis*), and much esteemed by

tinguishes between a natural tinguishes between a natural system of classification. Classification is perhaps of most importance in natural history—for example, botany and zoology. In the former the artificial or Linnæan system long prevailed, in opposition to the modern or natural.

The system of classification. Classification is perhaps of most importance in literature, ranking consideration, and other of the later poets. Besides several panegyrical poems on Honorius, Stilicho, and others, we possess two of his epic poems, the Rape of Proserpine, and an unfinished War of the Giants, eclogues, epigrams, and occasional poems.

Clauding (kla'di-us), often also called classification.

Claudius (kla'di-us), often also called Clodius, the name of a distinguished Roman family of antiquity.

Clau'dius, or, in full, TIBERIUS CLAUDIUS DRUSUS NERO GERMANICUS, a Roman emperor, son of Claudius Drusus Nero, stepson

Augustus and Antonia, the daughter of Augustus' sister; born at Lyons (10 B.C.). He lived in privacy, occupying himself with literature, the composition of a Roman history, and other works, until the murder of Caligula, when he was dragged from his hiding-place and



Clausenburg. See Klausenburg.

Clausthal. See Klausthal.

Clavicle (klav'i-kl), the collar-bone a bone forming one of the elements of the shoulder girdle in vertebrate animals. In man and sundry quad-rupeds there are two clavicles each joined at one end to the scapula or shoulderbone, and at the other end of the sternum or breast-bone. In many quadrupeds the clavicles are absent or rudimentary, while in birds they are united in one piece. Clavicorn Beetles (Clavicornes), a large family of coleopterous insects, distinguished by the coleopterous insects, distinguished by the club-shaped character of the antennæ. Burying-beetles and bacon-beetles are typical examples, and there are aquatic as well as terrestrial species.

Clavigero (klå-vi-kå rö), Francisco (klå-vi-kå rö), Francisco (klå-vi-kå rö), Francisco (klå-vi-kå rö), Francisco (klå-vi-kå ro), Francisc

torian, born at Vera Crus, Mexico, about 1720. He was educated as an ecclesiastic, and resided thirty-six years in the provinces of New Spain, where he acquired the languages of the Mexicans and other indigenous nations, collected many of their traditions, and studied their historical paintings and other monuments of antiquity. On the suppression of the Jesuits by the Spanish government in 1767 he went to Italy, where he wrote his Mesican History, and died in 1793. Clay (kla), the name of various earths, which consist of hydrated silicate of aluminium, with small proportions of of aluminium, with small proportions of the silicates of iron, calcium, magnesium, potassium and sodium. All the varieties are characterized by being firmly coherent, weighty, compact, and hard when dry, but plastic when moist, smooth to touch, not readily diffusible in water, but when mixed not readily subsiding in it. Their tenacity and ductility when moist and their hardness when dry has made them from the earliest times the materials of bricks, tiles, pottery, etc. Of the chief varieties porcelain-clay, kaolin, or chinaclay, a white clay with occasional gray and yellow tones, is the purest. Potter's by his followers. oley and pipo-clay, which are similar but claymore (kla'mor), formerly the less pure, are generally of a yellowish or

grayish color, from the presence of iron. Fire-clay is a very retractory variety, always found lying immediately below the Claustrophobia (klaws-trō-fō'bià), the fear of being stance mixed with sand, oxide of iron, and various other foreign ingredients. The boles, which are edible. Clava'ria, a genus of fungi, some cases of neurasthenia. Clava'ria, species of which are edible. Claverhouse. See Graham, John. Clavichord. See Clarichord. and boulder-clay, the last a hard clay of a dark-brown color, with rounded masses of rock of all sizes embedded in it, the re-sult of glacial action. The distinctive rock of all sizes emocrated. The distinctive property of clays as ingredients of the soil is their power of absorbing ammonia and other gases and vapors generated on a soil of the soil is their power of absorbing ammonia and other gases and vapors generated on goil fertile and manured lands; indeed, no soil will long remain fertile unless it has a fair proportion of clay in its composi-tion. The best wheats are grown on calcareous clays, as also the finest fruits and flowers of the rosaceous kind. See the separate articles on the chief varieties.

Clay, Heney, statesman, born in Hanover Co., Virginia, in 1777. After acting as clerk in two or three state offices he commenced business in 1797 as a lawyer at Lexington, Kentucky. He soon became famous as a public speaker, and at the age of twenty-six was a member of the Kentucky legislature. In 1806 he was elected to the lature. In 1806 he was elected to the United States Senate; and in 1811 to the House of Representatives, where he was at once made speaker. In 1814 he proceeded to Europe and acted as one of the commissioners for adjusting the treaty the commissioners for adjusting the treaty of peace at Ghent between America and Great Britain. In 1825 he was appointed by President Adams, Secretary of State. He was an unsuccessful candidate for the presidency in 1824, 1832 and 1844. He is best known for his endeavors to shut out European influences from America, and in connection with the 'Missouri Compromise of 1820,' restricting slavery to the states south of lat. 36° 30' N.; the Compromise Tariff of 1832, and a compromise in 1850 regarding the admission promise in 1850 regarding the admission of California, and establishment of terri-torial government in New Mexico, Utah. etc. This postponed the slavery contest between the sections of the country for ten years. He died at Washington in 1852. Clay was unquestionably one of the greatest orators America has pro-duced and a splendid party chief, idolised

edged sword of the Scotch Highlanders. Clay-slate, in geology, a rock consist-ing of clay which has been

Clayton-Bulwer Treaty, a treaty between Britain and the United States concluded in 1850, and having reference to the construction of a ship canal across Nica-

about 300 B.C. He was a disciple of Zeno for nineteen years, and succeeded him in his school. He died of voluntary starvation at the age of eighty. Only some fragments of his works are extant. Clear, CAPE, a promontory 400 feet high at the southern extremity of Clear Island, and the most southern of Clear Island, and the most southern point of Ireland, about 714 miles south-east of Baltimore, County Cork.

Clearance of Vessels (kler'ans), the examination of vessels by the proper customhouse officers, and the giving of a certificate that the regulations have been duly complied with. Vessels are said to clear inwards or outwards according as they

of England notes. Now, however, the various banking companies and the clearing house itself have accounts at the Bank of hardened and otherwise changed, for the most part extremely fissile and often transfers from one account to another. affording good roofing-slate. In color it varies from greenish or bluish gray to lead color.

Clayton, John Middleton, jurist, born in Sussex Co., Delaware, in 1796. He was educated at Yale, studied law, represented Delaware in the agents. The system has also been adopted United States Senate 1845-49, and in 1849 was appointed Secretary of State by President Taylor. He negotiated an important treaty with England (see next atreaty atreaty a treaty at the color of the provincial banks through their London in the larger provincial towns, and in 1849 was appointed Secretary of State by New York and other large American cities of the provincial treaty with England (see next carry on their traffic over different lines. Thus a passenger can purchase one single ticket which will carry him over lines belonging to several companies, and parcels are conveyed through without additional booking, fresh entries, and conconstruction of a sinp canal across Nica-parcels are conveyed through without ragua. Both parties agreed not to erect additional booking, fresh entries, and confortifications here, nor to acquire any sequent delay, the claims of the different part of the Central American territory. companies being adjusted in the clearing This treaty was amended in 1901 by the house, which is maintained at the com-

Hay-Paunceforte treaty.

Cleanthes (klë-an'thes, a Greek Stoic philosopher, born at Assos philosopher, born at Assos the new services of the new services. Company of the new services. about 300 B.C. He was a disciple of the same genus as the nux vomica, com-Zeno for nineteen years, and succeeded mon in Indian forests. Its seeds being him in his school. He died of voluntary rubbed on the inside of a vessel containing turbid water speedily precipitate the impurities, this result being due, it is said, to the clarifying effect of the albumen and casein they contain.

Clear'story. See Clerestory.

Cleator Moor (klē-ā'ter mör), a town of England; an Cumberland, 4 miles S. E. of Whitehaven, with coal-mines and iron furnaces. Pop. 8302.

Cleavage (klē-vij), the manner or direction in which substances regularly cleave or split. The regular structure of most crystallized inwards or outwards according as they arrive or set sail.

Clearfield (klēr'fēld), a borough, county seat of Clearfield Co., Pennsylvania, on the w. branch of the Susquehanna, 40 miles N. of Altoona. It has products of brick, sewer-pipe, clay, coal, machinery, etc. Pop. 8000.

Clearing House (klēr'ing), an institution connected with banks and railways. In the former case it is an establishment in large cities where there are many banks, to which such parallel to the base of a crystal, to the each bank connected with it sends every faces of a cube, to a diagonal plane, or to the lateral planes. In certain rocks each bank connected with it sends every faces of a cube, to a diagonal plane, or to day in order to have its business with the the lateral planes. In certain rocks other banks adjusted. The sums due by again there is a tendency to split along and to the banks among themselves are planes which may coincide with the here set off against each other and the original plane of stratification, but which balance paid or received. In London the more frequently cross it at an angle, balance used to be settled in cash or Bank This tendency is the consequence of the

readjustment by pressure and heat of the dwelt for some years in the United States, components of rocks, which is one of the phases of metamorphism.

Cleburne (kle burn), a town, capital of Johnson county, Texas, 53 miles s. w. of Dallas. It has large

railroad shops, cotton compresses, cotton-seed oil mills, etc.

Cleckheaton

(klek'e-ton), a town of England, County York, which was also recompresses, cotton-seed oil mills, etc.

Pop. 15,000. West Riding, 10 miles w. of Leeds. industries include the worsted and machine-card trades, machine making, engineering works, etc. Pop. 12,867.

Clef (klef; French for key), in music,

a sign placed on a line of a staff and which determines the pitch of the staff and the name of the note on its lines. There are three clefs now in use: the

treble or G clef. written on the

second line; the mean or C clef,

which may be placed on the first, second, third, or fourth lines; and the bass or F

elef, seated on the fourth line. The

mean clef is seldom used in vocal music except in part songs.

Cley, a name applied to various insects which are troublesome to horses, cattle, and even to man from their blood-sucking propensities. Such are the great horse-fly, gadfly, or breeze (Tabanus bovinus, the Chrysops, cocutiens, and the Hæmatopöta pluvidlis).

Clematis (klem'a-tis), a genus of woody climbing plants of the order Ranunculacese. The most common species, C. Vitalba, virgin's bower or traveler's joy, is conspicuous in British hedges, first by its copious clusters of white blossoms, and afterwards by its feather-tailed silky tufts attached to the fruits. Among the exotic species in greatest favor with horticulturists are C. Rammila. which produces abundant freatest layor with norticulturists are U. fammella, which produces abundant panicles of small, white flowers, and has a fine perfume; C. cirrhôsa, remarkable for its large, greenish-white flowers; and C. viticella, with its festooning branches adorned with pink or purple bells. C. Virginiana is an American species know the same name as the English. C. by the same name as the English; O. Jackmanni, is a well-known garden hybrid. The fruit and leaves of the common clematis are acrid and vesicant.

returned to France as a physician, was elected to the National Assembly in 1871, but was ousted by the Commune. He afterwards became a member of the Chamber of Deputies and finally leader of the extreme left. He prevented France from joining England in the Egyptian campaign, and was an active supporter of the accused in the Dreyfus case. From 1883 to 1893 he exercised large influence in the Chamber and was looked upon as the Chamber and Was looked upon as the maker of ministries. He became Premier and Minister of the Interior in this office in 1917. M. Clemenceau is a brilliant speaker and writer, not only on political subjects but also in the field of plays, novels and philosophical essays.

(klem'ens), SAMUEL LANG-Clemens HORNE, humorist, more generally known by his pseudonym 'Mark Twain,' born in Missouri in 1835. He Twain, born in Missouri in 1835. He worked for some time as a compositor in Philadelphia and New York, and then in 1851 learned the business of piloting on the Mississippi. He afterwards went to Nevada and California, working in the mines and editing a newspaper in Virginia City. He subsequently engaged in lecturing, edited for a time a paper in Buffalo, and finally married and settled in Hartford, Connecticut, making this his home for the remainder of his life. Loging his fortune by the failure of a publishing firm into which he had entered, he made a tour of the world in 1896-97, made a tour of the world in 1896-97. giving lectures and readings, and paying the debts of the firm with the proceeds. the debts of the firm with the proceeds. He early made his mark as r sumorist, and is undoubtedly regarded a. the greatest humorist of the period. He died in 1910. His best known works of humor are The Jumping Frog, etc. (1867); Roughing It (1873); The Innocents Abroad (1869); Tom Sawyer (1876); A Tramp Abroad (1880); The Prince and the Pauper (1882); Life on the Mississippi (1883); and Huckleberry Finn (1885).

Clement (kle'ment), properly Titus FLAVIUS CLEMENS, com-monly known as Clement of Alexandria, one of the most famous teachers of the Christian Church in the second and the beginning of the third century. He was converted from paganism to Christianity; and after traveling in Greece, Italy, and the East, became presbyter of the church of Alexandria, and teacher of the cele-brated school in that city, in which place he succeeded Pantenus, his teacher, and was succeeded by Origen, his pupil. His Clemenceau (cle-mān-sō'), Georges he succeeded Pantænus, his teacher, and B. E., a French states-was succeeded by Origen, his pupil. His man, born in La Vendee in 1841. He chief remaining works are the *Protrep*- chronology, philosophy, poetry, etc. Few of the early Christians had so wide a knowledge of Greek philosophy and literature and it is as a higher philosophic scheme that he mainly discusses Christianity. He was regarded as a saint until Benedict XIV struck him off the calendar. Clement, CLEMENS ROMANUS, or Clement, ment of Rome, one of the 'Apostolic Fathers,' is said to have been the second or the third successor of Peter as bishop of Bome, and the first of the numerous popes named Clement. He is perhaps identical with Consul Flavius Clemens, put to death under Domitian A.D. 95. Various writings are attributed AD. 95. Various writings are attributed to him, but the only one that can be regarded as genuine is an *Epistle to the Corinthians*, first obtained in a complete form in 1875. It is of importance as exhibiting the first attempt of the Church of Rome to exercise ecclesiastical authority over other churches.

Clement (klā-mān), JACQUES, the assassin of Henry III of France, born in 1567, became a Dominican, and the fanatical tool of the Dukes of Mayenne and Aumale, and the Duchess Montpensier. Having fatally stabbed the king, he was at once killed by the courtiers; but the populace, instigated by the priests, regarded him as a martyr; and Pope Sixtus V even pronounced his panegyric.

Clementi (klā-men'tē), Muzio, planist Clementi and composer, born at Rome in 1752. As early as his twelfth year he wrote a successful mass for four voices, and had made such progress in the planoforte that an Englishman, Mr. Reckford took him to England to Mr. Beckford, took him to England to complete his studies. He was then engaged as director of the orchestra of the opera in London, and his fame having rapidly increased he went in 1780 to Paris, and in 1781 to Vienna, where he played with Mozart before the emperor. In 1784 he repeated his visit to Paris, but after that remained in England till 1802, when he went back to the con-He returned in 1810 to Eng-

tikos, Paidagogos, and Stromateis or Stro-mata (Patch-work); the first an exhorta-tion to the Greeks to turn to the one of his day, and his influence upon modern true God, the second a work on Christ, execution has led to his being char-the last a collection of brief discussions in acterized as 'the father of pianoforte playing.'

Cleobulus (kle-o-bu'lus), one of the seven scise men of ancient Greece, a native of Lindus, who traveled to Egypt to learn wisdom, and became King of Rhodes. He flourished B.C. 560.

Cleomenes (kle-om'e-nez), the name of three kings of Sparta, the most distinguished of whom is Cleomenes III, the last of the Heraclides, king from 236 to 220 B.C. He intended to reform Sparta and to restore the institutions of Lycurgus, and therefore put to death the ephori, made a new division of lands, introduced again the old Spartan system of education, made his Spartan system of education, made his brother his colleague, and extended the franchise. He was defeated by the allied Macedonians and Achæans at the battle of Sellasia (B.C. 222), and fied to Egypt, where he was supported by Ptolemy Euergetes, but was kept in confinement by the succeeding Ptolemy. He escaped and attempted to raise a revolt, but failing committed suicide. failing, committed suicide.

Cleon (kleon), an Athenian dema-gogue, originally a tanner by trade. He was well known in public be-fore the death of Pericles, and in 427 B.C. distinguished himself by the proposal to put to death the adult males of the revolted Mytileneans and sell the women and children as slaves. In 425 he took Sphacteria from the Spartans; but in 423 and 422 he was violently attacked by Aristophanes in the Knights and in the Wasps. He was sent, however, in 422 against Brasidas, but allowed himself to be taken unawares, and was slain

while attempting to fiee.

Cleopatra (kle-o-pa'tra), a Greek
queen of Egypt, born E.C.

69, the eldest daughter of Ptolemy
Auletes. When she was seventeen her father died, leaving her joint-heir to the throne with his eldest son Ptolemy, whom she was to marry—such marriages being common among the Ptolemies. Being common among the Ptolemies. Being deprived of her part in the government (B.C. 49), she won Cæsar to her cause, tinent. He returned in 1810 to Eng- (B.C. 49), she won Cæsar to her cause, land, where he settled down as superinand was reinstated by his influence. In tendent of one of the principal musical a second disturbance Ptolemy lost his life establishments in London. He died in and Cæsar proclaimed Cleopatra Queen of 1832, and was interred in Westminster Egypt; though she was compelled to take Abbey. His most important compositions her brother, the younger Ptolemy, then were his sixty sonatas for the pianoforte eleven years old, as husband and colleague, and the great collection of studies known Cæsar continued some time at Cleopatra's as the Gradus ad Parnassum, a work court, had a son by her named Cæsarion

(afterwards put to death by Augustus), ment for the measurement of time by the and gave her a magnificent reception escape of water from a vessel through an when she subsequently visited him at orifice. In the older Rome. By poisoning her brother she remained sole possessor of the regal power, estimated simply by took the part of the triumvirs in the civil war at Rome, and after the battle of Philippi sailed to join Antony at Tarsus. Their meeting was celebrated by splendid surface is connected festivals; she accompanied him to Tyre, and was followed by him on her return to Egypt. After his conquest of Armenia he again returned to her and made his three sons by her, and also Cæsarion, kings. On the commencement of the war between Augustus and Antony the latter lost a whole year in festivals and amuse-ments with Cleopatra at Ephesus, Samos, and Athens, and when at last the fleets met at Actium, Cleopatra suddenly took to flight, with all her ships, and Antony, as if under the influence of frenzy, imtern D mediately followed her. They fied to descen Egypt, and declared to Augustus that if again Egypt were left to Cleopatra's children hours. Augustus, however, demanded Antony's death and advanced on Alexandria. Believing Cleopatra who had taken refuge in her mausoleum, to be treacherous and dead, Antony threw himself on his sword, and shortly afterwards Cleopatra killad herself by applying and shortly afterwards Cleopatra killad herself by applying an asp to her arm to escape the ignominy of being led in a Roman triumph (B.C. 30). With her the dynasty of the Ptolemies ended.

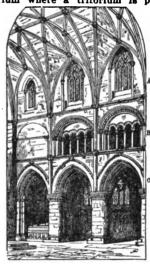
Cleopatra's Needles, the name to two Egyptian obelisks, formerly at Alexandria, but one of which is now in London, the other in New York. They are made of other in New York. They are made or the rose-red granite of Syene, and were originally erected by the Egyptian king Thothmes III in front of the great temple of Heliopolis, the On of the Scriptures, where Moses was born and brought up. They were taken to Alexandria shortly before the commencement of the Christian era, and after the death of Cleopatra, but possibly in pursuance of a design origi-nated by her. The London obelisk, which stands on the Thames embankment, was presented to the British government in 1820, but was long left uncared for. In 1877-78, however, it was brought to London by the private munificence of Sir Erasmus Wilson, and erected in its place at a cost of some \$50,000. The new at a cost of some \$50,000. The new
York obelisk was presented to the United States by the Khedive of Egypt. and was set up in the Central Park in 1881. Each is about 70 feet high and inscribed with numerous hieroglyphics.

Clepsydra (kley'si-dra), or WATES-windows are inserted for the purpose of increasing the light in the perpose of increasing the perpo

the sinking of the sur-face of the water, in others the water with a dial-plate and hand by a system of weights and floats. In the accompanying figure the float A is attached to the end of a chain which is wound round the spindle B, and has at its other extremity the counterweight C.



On water being admitted from the cistern D the float rises, the counter-weight
descends and turns the spindle, which
again turns the hand that marks the



roof of the side aisles. In thes Clepsydra (klep'si-dra), or WATER-windows are inserted for the pur increasing the light in the nave.

Clergy (kler'ji; from Greek kleros, ers. It is his duty to lead the responses a lot, through the Latin, and assist in public worship, at funerals, Clericus and Low Latin clericia), the etc. body of ecclesiastical persons, in contra-distinction to the laity. The Greek word came into use to indicate that this class was to be considered as the particular of France, dep. of Hérault, 23 miles west inheritance and property of God, or else, by north of Montpellier. Pop. 5187. which is more probable, because it was Clermont - en - Beauvaisis (klar-customery to select by lot those set spart which is more probable, because it was customary to select by lot those set apart cor special religious functions. At first tan-bō-vā-sē), or Clermont de l'Oise (d-there was no strongly-marked distinction lwas), a town of France, dep. Oise, 17 between clergy and laity, but the former soon drew apart, consisting, after the apostolic age, of bishops, priests, and deacons, and in the fourth century of many additional inferior orders, such as subdeacons, acolytes, etc. With the indeacons, acolytes, etc. With the indeacons, acolytes, etc. With the indeacons acolytes, etc. creased complexity of the hierarchy there was a steady accretion of privileges until the burden of these became intolerable to the laity. In England few of these now remain, the clergy being generally re-garded as invested with no inherent claim to regard. A clergyman cannot, how-ever, be compelled to serve as juryman, he is exempted from arrest while celebrating divine worship, from acting as bailiff, constable, or like office, from attendance at a court leet; but on the other hand he cannot accept a seat in the House of Commons, engage in trade or farm lands of more than eighty acres without his bishop's consent. The Episcopalians recognize three classes of clergy—bishops, priests and deacons; and generally hold the doctrine of the apostolic succession. Large numbers of Protestants, however, reject this dogma, and believe in the ministry of only one order. The Catholic clergyman, according to the doctrine of the Roman Catholic Church, is endowed in his spiritual character with a supernatural power, which distinguishes him essentially from the layman. Requiar clergy are those who live according to monastic rule, secular clergy those who

Clergy Pensions have been adopted recently by many of the large denominations in the United States. The plans for establishing funds vary, but in general they depend on con-tributions from the clergy, supplemented by endowments and gifts from local

Clermont - en - Beauvaisis (klar-mon-

Clermont-Ferrand (klār-mon-fa-rān), a town of France, capital of department Puy-de-Dome, on a hill at the foot of the volcanic range in which the summit of the Puy is conspicuous. It possessed considerable importance under the Romans, and became a bishop's see at a very early period. It is an antique and gloomy town built of dark, volcanic stone. The most remarkable edifices are the cathedral, a huge, irregular, gloomy pile, and the Church of Notre Dame, founded in 580. It is visited for its mineral waters and various manufactures, including has chemicals, ropes, hats, etc. Pop. 44,113. Clermont-Tonnerre (klär-mon-tonname of a noble French family of whom name or a none French family of whom one of the most celebrated was Count Stanislas, born in 1747. At the breaking out of the revolution of 1789 he endeavored to promote the establishment of a constitutional monarchy, founding with Malouet the Monarchical Club, and with Fontanes the Journal des Impartiaus. In 1791 he was character with accident 1791 he was charged with assisting the set free on swearing fidelity to the assembly. In 1792, however, he was murdered by the mob at the house of the Countess de Brissac.

to monastic rule, secular clergy those who do not.

Clergy, Benefit of Clergy.

Clergy Pensions have been adopted Clergy Pensions have been adopted Clergy Clergy.

Clergy Pensions have been adopted Clergy Pensions have been adopted Clergy Clergy.

Clergy Pensions Clergy Pensions have been adopted Clergy Pensions Clergy Pensions Clergy Clergy.

Clergy Pensions Pen vided into two parts by the river Cuyahoga. It is beautifully situated, chiefly on an elevated plain above the lake, and for the most part handsomely laid out with streets crossing each other at right by endowments and gifts from local church organizations.

Clerk, John, of Eldin, near Edin-burgh, born 1728; died 1812, a Cuyahoga is spanned by several bridges, naval tactician, for whom is claimed the and in particular by the Viaduct, an element of the properties of the propertie invention of the maneuver of breaking vated street and bridge erected at great the cnemy's line.

Clerk, PARISH, a lay officer of the river valley, one of them 100 feet high Church of England, appointed and 8931 long. The city has an area vated street and bridge erected at great

CLIFF DWELLINGS, WALPI, ARIZONA
The habitations of a race of Indians known as "Cliff Dwellers." The dwellings were built high in the cliffs, often two or more stories high and having many rooms, and are almost inaccessible.



being the most beautiful street in the world. It is lined with stately mansions on a gentle eminence several hundred feet back from the street, with before them a park-like stretch of shade trees, lawns, flower-beds and winding walks. It extends to Wade Park, 4½ miles out. A mile farther is the beautiful Lake View Cemetery, in which is a monument to President Garfield. The interesting edifices of the city include a large music hall, an excellent public library, the Western Reserve University, the Case School of Applied Sciences and various others. The chief industries of Cleveland are its various manufactures of iron, the refining of petroleum, woodworking factories and a great variety of others. It is an important railroad centre, all the trunk lines between New York and Chicago running through or near it, and other lines terminating in the city. Its lake commerce is very large, it being the greatest receiving point for iron-ore in America, if not in the world, one of the largest lumber markets in the United States, an important coal market, and very closely associated with the petroleum industry of this country. It is also one of the chief shipbuilding centers of the country save him a high place in public estimation.

Cleves (klèvz: in German Kleve).

Cleves (klèvz: in German Kleve).

Cleves (klèvz: in German Kleve).

The capital of the dukedom of Cleves, a town in Rhenish Pussia, 70 miles N. w. of Cologne, about a league from the Rhine, with which it is connected by a canal. It has manufactures of tobacco, leather and contours, and a mineral spring with baths, etc. Pop. 14,684.

Clew Bay, of Ireland, County Mayo, Clew Bay, on the west coast containing a vast number of islets, many of them fertile and cultivated.

Clich (klèvishā), an electrotype or a stereotype cast from an engraving, especially from a woodcut.

States, an important coal market, and very closely associated with the petroleum industry of this country. It is also one of the chief shipbuilding centers of the country. Slaughtering and meating i

of 83 sq. miles extending 10 miles along tion; and in 1884 he was nominated for the lake front and 6 miles in depth along the presidency by the Democratic national the river. In the center of the shopping convention at Chicago, and was elected district is the public square, 10 acres in on November 4. Civil service reform and extent, containing a fine soldiers' monutariff reform were advocated by him durextent, containing a fine soldiers' monument and a statue of Moses Cleveland, after whom the city is named. It is surrounded by public buildings—the custom
house, post office, courthouse, churches, by the Democratic party and was a secstores, etc. From the square extends ond time elected, his being the first inEuclid Avenue, with the reputation of stance of a return to the presidency
being the most beautiful street in the after an interval of private life. Presiworld. It is lined with stately mansions on a gentle eminence several hundent Cleveland's unflinching honesty and
sions on a gentle eminence several hundred feet back from the street, with heinterests of the country save him a high light

one of the chief shipbuilding centers of higher classes, whose duty it was to adthe country. Slaughtering and meating are also industries of leading legal cases, and in general to protect importance. The position of Cleveland them. The clients, on the other hand, on Lake Erle brings it a very large lake commerce, which is greatly added to by the patron if he had not sufficient forits railroad connections. Founded in 1796, and with a population of 1096 in for him if he was candidate for an office, etc. This relation continued till the time of the emperors. The term is now applied to one who engages the now applied to one who engages the now applied to one who engages the services, woolen, hosiery, casket, excelsior and other mills: also flour mills and canning factory. Pop. 5549.

Cleveland.

Stephen Geover, 22d delets of life in the valleys

N. E. of Chattanooga. It has iron foundries, woolen, hosiery, casket, excelsior and other mills: also flour mills and canning factory. Pop. 5549.

Cleveland, Stephen Grover, 22d and 24th president of the United States, born at Caldwell, New and its tributaries. Their dwelling-Jersey, in 1837; died in 1908. He settled in Buffalo, and having acquired an excelent position as a lawyer was elected mayor in 1881. His record for honesty in the rock openings. The stones are and efficiency as mayor brought him in 1882, the Democratic nomination for governor of New York, followed by his elec-

Many of the houses are small, 21, etc.; 63 is called the grand climacbut where large recesses existed com-munal dwellings of many rooms were built, not infrequently two, and at times three, stories in height. Many relics of the inhabitants have been found in these respects heat and cold, humidity and edifices, which are supposed to have been dryness, the direction and force of the

mineral spring which formerly attracted visitors. Pop. 44,400.

Clifton Forge, a city of Allegheny The winds to which a country is most exposed by its situation have also a miles E. of White Sulphur Springs. It has iron mining and large railway industries. Pop. 5748.

Climacteric (kli-mak'ter-ik; annus will be colder, the latitude being the climactericus), according to an old theory, a critical period in by milder breezes from the south and human life in which some great alteration is supposed to take place in the constitution. The first climacteric is, according to some, the seventh year; the hot deserts of Africa. The greater or others are multiples of the first, as 14, lesser extent of coast-line a country

built as places of refuge from enemies. prevailing winds, the alteration of the How these people lived we cannot tell, seasons, etc., especially as such condi-How these people lived we cannot tell, seasons, etc., especially as such condi-as the region is now rainless and neces-tions affect animal and vegetable life. sarily destitute of food plants. It In general, geographical latitude is the must have been less barren in former principal circumstance to be taken into must have been less barren in former times.

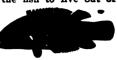
Clifford (clifford), the name of a country, and thus the torrid, tempervery old English family, ate, and frigid zones may each be said roughly to have a climate of its own. The highest degree of heat is found in founder of the family, WALTER, son of Richard Fitz-Ponce, a Norman baron, acquired the castle of Clifford, in Herefordshire, under Henry II, and hence took the name of Clifford. In 1523 the Clifford's became Earls of Cumberland, but in 1643 this title became extinct.

Clifford, WILLIAM KINGDON, an Clifford, English mathematician, nating rainy seasons and dry seasons. The variations in temperature are very considerable in the tempera born in 1845; educated at King's College, London, and at Trinity College, Especially about 59° or 60°, is, in July, Cambridge, where he was graduated as greater than that of countries 10° second wrangier. In 1871 he was appointed professor of applied mathematics Lapland, where the sun's rays are very at University College, London. In 1876 his health gave way, but was restored sometimes equal to that of the torrid by a summer spent in Spain and Algiers, zone, because the sun is almost always though not permanently, for two years above the horizon. But even in the later he again broke down, and died soon equatorial regions, and still more in inafterwards at Madeira, March 3, 1879. termediate regions, the temperature is In mathematics his teaching and writings are regarded as marking an epoch in the history of the science in March 3, 1879. rater ne again broke down, and died soon equatorial regions, and still more in inafterwards at Madeira, March 3, 1879. termediate regions, the temperature is
In mathematics his teaching and writings are regarded as marking an epoch
in the history of the science in England.
His Canonical Dissection of a Riemann's
Surface and his theory of Biguaternions,
are well-known works.

Clifton (clif'tun), a handsome residential suburb of Bristol,
ica the mountainous character of the
England, with the limits of which it is country makes the climate more moderincluded. A suspension bridge here ate. Altitude above the sea indeed has
crosses the river Avon 245 feet above its crosses the river Avon 245 feet above its everywhere the same effect as removal bed, uniting the counties of Gloucesto a greater distance from the equator, ter and Somerset. There is here a tepid and thus in the Andes we may have a mineral spring which formerly attracted tropical climate at the sea-level and an visitors. Pop. 44,400.

Climax Clinton

possesses in proportion to its area has a of cells and duplications so that they can decided influence on the climate. The retain sufficient water to keep the gills almost unvarying temperature of the ocean equalizes in some degree the peri-water six days. Only of a great mass of water proceeds long proximity of a great mass of water proceeds long proximity of a great mass of water proceeds long moderates, by its action on the atmost different seasons of the year, and the proximity of a great mass of water proceeds long waters, the heat of summer and the cold of winter. Hence the more equable of water when Climbing Perch (Anabas temperature of islands and coasts as compared with that of places far inland, and hence the terms insular climate as the pools in scandoms). Tasmania, and New Zealand enjoy a to this latter point authorities disagree. The British Isles, and the results of the pools in the province of the most in the same latitude, the mean return and a cooler summer than Paris, though the latter is nearly 3° farther south. Similarly, though Warsaw and Amsterdam are round the trunks of trees, etc. Such are almost in the same latitude, the mean annual temperature of the former is 46.48°, while it reaches at the latter by small roots developed from the stem of the honeysuckle and scarlet runner. And account and the trunks of trees, etc. Such are the honeysuckle and scarlet runner. State of the polarity of large as they ascend. Some in climbing masses of water involves also the presence of much aqueous vapor in the attent of the most instructive features. These are lines drawn on a map or chart connect the plantific of a country. Direction of mountain chains, set of ocean currents, and nature of soil are other modifying elements. In exhibiting graphically the chief climate facts of a region warfous methods may be adopted, but in all the use of isothermal lines is one of the most instructive features. These are lines drawn on a map or chart connect the plantification. Climical (klin'i-kal) Medicine which tea coincide with the limits of the zones into lecture is the instruction which the which the earth is astronomically diteacher gives at the bedside of the pavided, and when compared with these on tient, and a clinic the examination of a compared with these on tient, and a clinic the examination of a



which the earth is astronomically divided, and when compared with these on a map show interesting and instructive divergences. Geology teaches that vast remarks on the nature of the disease changes have taken place in the climate of most if not of all countries, the causes of which are not fully understood.

Climax (kli'maks; Greek, klimax, a ladder or stairs), a rhetorical figure in which a series of propositions or objects are presented in such a way that the least impressive comes first, and the particular case.

Clinton (klin'tun), a city, capital of Dewitt Co., Illinois, 22 miles so of Bloomington. It has bridge and ironworks, etc. Pop. 5165.

Clinton, a city of Vermilion Co., Indiana, on the Wabash River, diana, on the Wabash River, total miles a regular gradation from this coal mines in the vicinity. Pop. 9000.

Climbing Perch (klim'ing; Anabus scandens), a singular fish, type of the family Anabasidæ, river is crossed by an iron bridge, about remarkable for having the pharyngeal bones enlarged and modified into a series

Boston. It has extensive manufactures of carpets, gingham cloths and wire cloth. Pop. 13,015.

Clinton, a city, county seat of Henry Co., Missouri, 85 miles S. E. of Kansas City. It has flour and cornmeal mills, iron works, etc. Pop. 5500.

Clinton, De Witt, lawyer and statesman, born in Orange Co.,
New York, in 1600; died in 1828. Winning emincuce in Democratic politics, he was elected United States Senator in 1801. Mayor of New York in 1803, lieutenant-governor of that state in 1811 and governor in 1817. It was due to his influence that the Eric canal was begun and he lived to see it completed and the

prosperity which it produced.

Clinton, Sir Henry, a British general who served in the Han-

boredlis, is extremely abundant in the northern seas, constituting the principal part of the food of the whale, and hence often called whale's food.

Clipper (klip'er), a modern build of sailing ship, having a long, sharp bow, the greatest beam abaft the

the county. It is the seat of some large cotton-spinning and weaving establishments, paper manufactories, foundries, and large print-works. Pop. 11,414.

Clitoria (kli-tori-a), a genus of tropical leguminous plants, mostly climbers, one of which, C. Ternatea, with beautiful blue flowers, has long been grown in England.

Clitus (kli tus), the foster-brother of Alexander the Great. He graved Alexander is the Great of the convention of the control of the

Alexander the Great. He saved Alexander's life at the Granicus, but was afterwards slain by him in a fit of intoxication, an act for which Alexander always showed the bitterest

in Shropshire. In his nineteenth year he defeating their forces both by sea and

the bridge, making the city a considerable railroad center. It contains large ice at Madras as a writer, but in 1747 repair shops, foundries, sash and blind quitted the civil for the military service. factories, sawmills, etc. 1'op. 25.577.

Clinton, a city of Worcester Co., Massachusetts, 45 miles N. w. of pleix had gained important privileges



Clinton, SIR HENRI, and was sent to America in 1775 with the rank of major-general, where he distinguished himself in the Battle of Bunker Hill. He died in Arcot were threatening the very existence of the British establishments. In 1751 Clive, who had already a reputational courage, marched on Sittence of the British establishments. In 1751 Clive, who had already a reputational courage, marched on Sittence of the British establishments. In 1751 Clive, who had already a Paritish establishment. istence of the British establishments. In 1751 Clive, who had already a reputation for skill and courage, marched on the large city of Arcot with 200 British troops and 300 Sepoys, and took it, although strongly garrisoned, without a blow, withstood a siege by Chunda Sahib for nearly two months, and at last routed the enemy, took possession of important posts, and returned to Madras completely victorious. In 1753 he sailed completely victorious. In 1753 he sailed to England to recover his health, and was received with much honor. Two years later he was back in India, in his governorship of St. David's, from which he was soon summoned to command the expedition sent to Bengal, where the Nabob Suraj-ud-Dowlah had attacked the British, destroyed their factories, taken Calcutta, and suffocated over 120 of his prisoners in the Black Hole. Clive soon took possession of Calcutta and brought Suraj-ud-Dowlah to terms, but having no trust in the loyal intentions of the nabob he resolved to dethrone him. With the help of Meer Jaffier, one of the nabob's officers, he effected his purpose, and in the battle of Plassey completely overthrew Suraj-ud-Dowlah's forces. remorse. (kliv), Robert, Lord Clive and and Clive was made Governor of Cal-Baron of Plassey, English gencutta. Here he was equally successful eral and statesman, was born in 1725 against the encroachments of the Dutch,

land. Clive now visited England again, also have a spring setting their works where his success was highly applauded in motion. The use of a horologium, without much inquiry as to the means; or hour-teller, was common even among and in 1761 he was raised to the Irish the ancients, but their timepieces were peerage with the title of Lord Clive, nothing else than sun-dials, hour-glasses, Baron of Plassey. In 1764 fresh and clepsydræ. In the earlier half of troubles in India brought him back, but our era we have accounts of several atnow as President of Bengal, with comtempts at clock construction: that of mand of the troops there. Before his Boethius in the 6th century, the clock arrival, however, Major Adams had sent by Harun al Rashid to Charle-already defeated the Nabob of Oude, and magne in 809, that made by Pacificus, Lord Clive had only the afranging of Archdeacon of Verona, in the 9th centroubles in India brought him back, but now as President of Bengal, with command of the troops there. Before his arrival, however, Major Adams had already defeated the Nabob of Oude, and Lord Clive had only the arranging of the treaty by which the company obtained the disposal of all the revenues of Bengal, Bahar, and Orissa. In 1767 ever, if any of these was a wheel-and-he finally returned to England. In 1773 weight clock, and it is probably to the monks that we owe the invention of made in the House of Commons that 'Lord Clive had abused the powers with which he was entrusted,' but it was rejected for a resolution that 'Lord Clive had rendered great and meritoribus services to his country.' His health was by this time broken, and in one of his habitual fits of melancholy he put an end to his life, November 22, 1774. Clive was of a reserved temper, although the sound of the present system of clockwork. Dante particularly means self-directed and secret in his decisions. among his intimate friends he could be lively and pleasant. He was always self-directed and secret in his decisions, but inspired those under his command with the utmost confidence, owing to his bravery and presence of mind. In private life he was kind and exceedingly liberal. He married the sister of the astronomer-royal Dr. Maskelyne, by whom he had two sons and three daughters.

by the sound of a bell put in motion by means of wheels. From this time forward the expression, 'the clock has struck,' is often met with. The hand for marking the time is also made mention of. In the 14th century there are stronger traces of the present system of clockwork. Dante particularly mentions clocks. Richard, Abbot of St. Albans in England, made a clock in 1326 such as had never been heard of till then. It not only indicated the course of the sun and moon, but also the ebb and flood tide. Large clocks on steeples likewise were first made use of in the 14th century. Watches are a much later invention, although they have whom he had two sons and three daughters.

Clivers. See Cleavers.

Cloaca (klō-a'ka), an underground conduit for drainage, of which is well known, was set up in Paris for the oldest known example is the Cloaca Maxima, or great sewer at Rome, built some 2500 years ago. A portion of it is still standing. It is about 13 feet high and as many wide.—The term is also applied to the excrementory cavity in birds, reptiles, many fishes and lower about 1657. The great advantage of mammalia (Monotremata), formed by the extremity of the intestinal canal, and conveying outwards the fæces, urine, etc.

Clock, an instrument for measuring time and indicating hours minutes, and usually seconds, by mean of hands moving on a dial-plate, pand differing from a weatch meinly in having the same time and indicating thours of hands moving on a dial-plate, pand differing from a weatch meinly in having the same time and indicating thours of the mechanism by which comparative regularity was previously attained, though they have likewise been said to have been invented as early as the 14th century. A celebrate of which is well known, was set up in Paris for Charles V in 1379, the maker being Maxima, or great sewer at Rome.

Cloaca (klō-a'ka), an underground it kewise been said to have been invented as early as the 14th century. A celebrated clock, the construction of which is well known, was set up in Paris for maker being Maxima, or great sewer at Rome in the 14th century. A celebrated past the wise been said to have been invented as early as the 14th century. A celebrate invented as early as the 14th century. A celebrate invented as early as the 14th century. A celebrate invented as early as the 14th century. A celebrate invented as early as the 14th century. A celebrate invented as early as the 14th century. A celebrate invented as early as the 14th century. A celebrate invented as early as the 14th century. A celebrate invented as early as the 14th century. A celebrate invented as early as the 14th century. A celebrate invented as earl the extremity of the intestinal canal, and tons of a pendulum all occupy substanconveying outwards the fæces, urine, etc.

Clock, an instrument for measuring time and indicating hours minutes, and usually seconds, by mean of hands moving on a dial-plate, and differing from a watch mainly in having the movement of its machinery regularity was previously attained, differing from a watch mainly in having the movement of its machinery regularity was previously attained, though ingenious and simple, was far less perfect; and the first pendulum estated by a pendulum, and in not being capement, that is, the contrivance by which the pendulum was connected with clocks also differ in having their matchinery set in motion by means of a than others subsequently introduced, falling weight or weights, the watch wheelwork being moved by the force of an uncolling spring; but many clocks ment.) In a watch the balance-wheel

which two metals having unequal rates of expansion and contraction under variwas elected tribune in 59 B.C., was the mean of procuring Cicero's banishment, that, each metal counteracting the other, the vibrations are isochronous under the seditions of the time till killed in an any change of temperature. This arrangement was perfected by Harrison in those of Titus Annius Milo. One of 1726, and is especially useful in navigation. The accompanying cut shows gation. The accompanying cut shows of Milo. the going part of a clock in its simplest Clog-a form. A is a drum

Clockwork.

with a square end to bols are used to de receive the key in golden number, etc. and H. The last is named the escapement wheel, and into

its teeth work the pallets of the anchor K, which swings backward and forward with the pendulum. The wheel D turns once in an hour, the wheel H, 60 times (the pendulum marking seconds), and Cork, with a considerable trade in grain. by means of other wheels, and one axis Pop. 3676. working inside another, the clock hands and dial show hours, minutes, and seconds. The striking machinery of a clock, or that by which hours, quarters, etc., are sounded is no necessary part of a clock, and forms indeed a separate portion of the works, usually driven by a river Suir, and has a jail, barracks, separate falling weight, and coming into play at certain times, when there is a temporary connection between the two portions of the clock machinery. See also Watch.

and spring serve the same purpose as the pendulum, and the honor of being the inventor of the balance-spring was contested between Huyghens and the Pulcher, who was consul about 79 B.C. English philosopher Dr. Hooke. Various improvements followed, such as the under Sucullus, and filled different high chronometer escapement, and the addiposts in the provinces of the East, tion of a compensation adjustment, by which two metals having unequal rates serious disturbances. Returning to serious disturbances. Returning to Rome, he became a popular demagogue, was elected tribune in 59 B.C., was the

Clog-almanac, an almanac or calendar made by cutthe cord P, to which the weight is attached, the drum having a projecting axis
with a square end to

winding up the clock. The drum is connected with B, the first wheel of the train, by means of the ratchet-wheel r, and catch B, which allow the clock to be wound up without golden number, etc.

Clogher (klö'ger), a village and old episcopal see of Ireland in Tyrone, with cathedral and bishop's palace. The see, of which St. Patrick is said to have been the first bishop, is united with that of Armagh. Pop. about 250.

allow the clock to be wound up without turning B. The wheel B drives the pinion C and the wheel D, the latter called the minute wheel; and there is a similar connection between D, E, F, G, The last is Cloisonne (kiwa-son-a). See Entermined the way or gallery, often forming part of certain portions of monastic and collegiate buildings, usually having a wall of the building on one side, and an open colonnade, or a series of windows with piers and columns adjoining an interior yard or court on the other side. Such galleries were originally intended as Cloisonné (klwa-son-a). See Enamel. galleries were originally intended as places of exercise and recreation, the

persons using them being under cover. The term is also used as equivalent to convent or monastery. Clonakilty (klo-na-kil'ti), port of Ireland, County

Clontarf Clothing

during the revolutionary scenes in France under the appellation of Anacharsis Cloots. He was born at Cleves in 1755, and was brought up at Paris. He became possessed of a considerable fortune, which he partly dissipated in fantastic schemes for the union of all peoples and races in one democratic brotherhood. The outbreak of the French afforded him the kind of peoples and races in one democratic same time the material for the construction of the cases in which they assume revolution afforded him the kind of career he sought. In 1790, Cloots presented himself at the bar of the national assembly, accompanied by a considerable number of enthusiastic followers of various nationalities, English, German, than that the body should be kept in Italian, Spanish, Arabians—or Parisians dressed up as such. He described venting the disturbance of the important himself as the orator of the human race, and demanded the right of confederation, which was granted him. His enthusides which was granted him. His enthusides of the whole host of chronic diseases, Christianity and of royalty, and a gift foremost among which are found scrofula of 12,000 livres on behalf of the national and consumption. The only kind of defense, gained him in Sept., 1792, election to the national convention, in which the cooler or temperature to he voted for the death of Louis XVI in the name of the human race. But becoming an object of suspicion to Robespierre, he was arrested and guillotined of the advantage which the wearing pierre, he was arrested and guillotined of the death of and substituted in the demander of the death of Louis XVI in which the cooler of temperature to the voted for the death of Louis XVI in which the cooler. Those who would receive the advantage which are found scrofular of wool is capable of affording must wear

Clontarf (klon'turf), a town of Iresupported by more than 100 members and land, County Dublin, on the opposed by less than 40, or have the supported by less than 40, or have Cloots (klots), Jean Baptiste, Baron or vegetable origin, as wool, hair, cotton, a singular character well known flax, hemp, etc. Cloth may also be made during the revolutionary scenes in by felting as well as by weaving. See France under the appellation of Ana-Cotton, Woolen, Silk, etc.

Clothes-moth, the name common 'o several moths of the genus Tinea, whose larvæ are destructive to woolen fabrics, feathers, furs. etc., upon which they feed, using at the same time the material for the construction of the cases in which they assume

pierre, he was arrested and guillotined of wool is capable of affording must wear March 24, 1794. He met his fate with it next to the skin; for it is in this situagreat indifference. Cloquet (klo'kwet). a village of Carlcan be felt. The great advantages of
woolen cloth are briefly these:—the readiw. of Duluth. It has lumber and paper
mills, etc. Pop. 7031.

Close Corporation, a corporation which fills up
its own vacancies, the election of memters not being open to the public. its own vacancies, the election of members not being open to the public.

Close-hauled, in navigation, said of a ship when the general arrangement or trim of the sails is mature of woolen, and on that account much as to enable her to sail as nearly must be esteemed as the next best subagainst the wind as possible.

Closure (klos'ūr), a rule in British Silk is the next in point of excellence, parliamentary procedure, adopted in 1887 by which, at any time after a question has been proposed, a most of the properties enumerated as ton may be made with the speaker's or chairman's consent 'That the question may be made with the speaker's or chairman's consent 'That the question may be made with the speaker's or chairman's consent 'That the question matter of perspiration in its texture, and it conducts heat to or apidly.

Clotho (klo'tho), in Greek mythology or amendment. So also if a clause of a bill is under debate a motion that it stand or be added may be put and carried time the same way. The motion must be lot, and Atropos, the Inflexible, cut the

thread. The three appear in Hesiod as thick, heavy clouds often touch low mounthe daughters of Zeus and Themis. In art tains, steeples and even trees. Clouds Clotho was represented by the spindle, differ much in form and character, but are Lachesis by the globe, and Atropos by a generally classed (following Luke Howard, sundial.

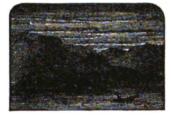
Cloture, the closing of debate in a legor primary forms, viz.:—1. The cirrus, so or primary forms, viz.:—1. The cirrus, so any provision for this in the Senate of the hair, and consisting of fibers which diverge United States has often led to intermining in all directions. Clouds of this descripable debates, and in certain cases to the United States has often led to intermin- in all directions. Clouds of this descripable debates, and in certain cases to the tion float at a great height, usually from defeat of important bills with majorities 3 to 5 miles above the earth's surface. in their favor, through being talked to Long, streaky forms are called mare's death by a minority. On March 8, 1917, tails. 2. The cumulus or heap, a cloud a bill was passed establishing the right to which assumes the form of dense convex or



Cloud-Cirrus.



Cloud-Cumulus.



Cloud-Stratus.



Cloud-Nimbus.

tive by a two-thirds vote, that bill shall be held before the Senate until its final disposition, each Senator being limited to one hour's debate in all on the bill, with its amendments and motions arising from Also after the two-thirds vote no amendment shall be offered without unanimous consent.

Cloud, a collection of visible vapor or watery particles suspended in the atmosphere at some altitude. They differ from fogs only by their height and less degree of transparency. The average

close debate under certain conditions. It conical heaps, resting on a flattish base; provided that in two days after notice in called also summer-cloud. Under ordiwriting has been given by 16 Senators the nary circumstances these clouds accompany in the heat be called for, and, if settled in the affirmative by a two-thirds vote, that bill shall wind. Each contains cloud is at the top of a column of ascending warm, aqueous vapor. They attain their greatest size early in the afternoon and gradually decrease towards sunset. 3. The stratus, so named from its spreading out uniformly in a horizontal layer, which receives all its augmentations of volume from below. It belongs essentially to the night, and is frequently seen on calm summer evenings after sunset ascending from the lower to the higher grounds, and dispersing in the form of a cumulus at sunrise. These three primary forms of clouds are subdivided as follows:—1. The cirro-cumulus, composed of a collecof a column of ascending warm, aqueous height of clouds is calculated to be 2½, of clouds are subdivided as follows:—1. miles, thin and light clouds being much The oirro-cumulus, composed of a collechigher than the highest mountains, while tion of cirri, and spreading itself fre-

in a state of transformation; when seen in the distance, a collection of these clouds suggests the resemblance of a shoal of fish, and the sky, when thickly mottled with them, is called in popular language a mackerel sky. 3. The cumulo-stratus or twain-cloud, one of the grandest and most beautiful of clouds, and consisting of a collection of large fleety. consisting of a collection of large, fleecy clouds overhanging a flat stratum or base. 4. The nimbus, cumulo-cirro-cording to Mr. Howard, by its fibrous with a white epidermis of a reddish-yel-border and uniformly gray aspect. It is low inside, of a nutmeg and clove odor, a dense cloud spreading out into a crown and of an aromatic and sharp taste. In of cirrus and passing beneath into a commerce the name is also given to the shower. It presents one of the least bark of the Myrtus caryophyllitia. It attractive appearances among clouds, but is of a deep-brown color, very thin and hard, and has similar properties to cinanower. It presents one of the least bark of attractive appearances among clouds, but is of a it is only when the dark surface of this hard, a cloud forms its background that the namon. splendid phenomenon of the rainbow is exhibited in perfection.

Cloud (klö), St., a town, France, department Seine-et-Oise, 6 miles Clove:

The principles of the least bark of the least of the le

quently over the sky in the form of beds highly distinguished himself. On his of delicate snowflakes. 2. The cirro-return from a tour in America (1852) stratus or wane-cloud, so called from its he was appointed an examiner attached being generally seen slowly sinking, and to the educational branch of the privying a state of transformation; when seen council office. He died in 1861, at in the distance, a collection of these Florence, while returning from a jour-clouds suggests the resemblance of a ney to Greece. His poems, of which shoal of fish, and the sky, when thickly the best known are Bothie of Toberna-mottled with them, is called in popular Vuolich Amours de Vangas, and the

the best known are Bothe of Tobernativuolich, Amours de Voyages, and the Tragedy of Dipsychus, were published, along with a memoir, in 1862.

Clove Bark, or CULLL'AWAN BARK, is furnished by a tree of the Molucca Islands (Ginnamomum Cullarges). It is in pieces more unless the second of the Molucca is the pieces more unless than the second of the Molucca is the pieces more unless than the second of the Molucca is the pieces more unless than the second of the Molucca is the pieces more unless than the second of the Molucca is the pieces more unless than the second of the Molucca is the pieces more unless than the second of the Molucca is the pieces more unless than the second of the Molucca is the pieces more unless than the second of the Molucca is the pieces more unless than the second of the Molucca is the pieces of the pie

Clove-gillyflower (klöv-jil'flower), the carnation, or chibited in perfection.

Cloud (klö), St., a town, France, department Scine-et-Oise, 6 miles 2 martment Scine-et-Oise, 6 miles 3 martment Scine-et-Oise, 6 miles 4 clover, foil), a name of different special control of the slope of a hill overlooking the river Scine. It is celebrated for its nat. order Leguminosse. There are château and its magnificent park, a about 150 species. Some are weeds, but favorite holiday resort of the Parisians. As the residence of the monarchs of cattle. T. pratense, or common red clover, is a biennial, and sometimes, escing. Louis XIV bought the old château and presented it to his brother, the Duke of Orleans, who enlarged and transformed it into a splendid palace, than any of the other sorts. Trifolism which became the residence of Henrietta, queen of Charles I of England, during able plant for pasturage over the whole her exile. It was sold by Louis Phipe of Orleans to Marie Antoinette, and America, and has also been introduced queen of Charles I of England, during her exile. It was sold by Louis Philippe of Orleans to Marie Antoinette, and after the revolution chosen by Napoleon for his residence. It was the summer residence of Napoleon III, and was greatly damaged in the Franco-German War. Pop. 7195.

Cloudberry (cloud'ber-i), or Moundard Pop. 7195.

Cloudberry (clo at the edges. The flowers are large and form a less compact head. Its produce white, and the berries, which have a is less in quantity, and not so nutritive, very fine flavor, are orange yellow in as that of the common red. T. incarna-color, and about the size of a bramble-berry.

Clough (kluff). Arthur Hugh, an English poet, born at Liver-pool, 1819. He studied under Dr. Arnold son flowers, and is sometimes planted at Rugby, and then at Oxford, where he for decorative purposes in flower garto plants like medick and melilot, cultivated for the same purpose and belonging to the same natural order,

Clover-weevil, a kind of weevil, genus Apion, different species of which, or their larvæ, feed on the leaves and seeds of the clover, as also on tares and other leguminous plants. A. apricans, of a bluish-black color, and little more than a line in length, is especially destructive.

Cloves (klovz), a very pungent aromatic spice, the dried flower-buds of Caryophyllus aromaticus, a native of the Molucca Islands, belonging to the myrtle tribe, now cultivated in Sumatra, Mauritius, Malacca, Jamaica, etc. The tree is a handsome evergreen from 15 to 30 feet high, with large, elliptical, smooth leaves and numerous purplish flowers on jointed stalks. Every



Clove (Caryophyllus aromaticus).

year 481, as chief of the warlike tribe of Salian Franks, who inhabited Northern Gaul. In 486 he overthrew the Roman country between the somme and the sary that a person should have been Loire. The influence of his wife Clotilda, a Burgundian princess, at length according to its regulations, before he
converted him to Christianity, and on was at liberty to enter it. Among the
Dec. 25, 496, he was baptized with sevearliest of the London clubs was the Kiteral thousands of his Franks at Rheims, cat Club, formed in the reign of Queen
and was saluted by Pope Anastasius as
'most Christian king,' he being orthodukes, earls, and the leading authors

The name clover is often applied dox, while most of the western princes nts like medick and melilot, cul- were Arians. It now became his object to rid himself by any means of all the other Frankish rulers, in order that he might leave the whole territory of the Franks to his children; and in this purpose he succeeded by treachery and cruelty. He died at Paris, which he had made his capital, on Nov. 27, 511, in the thirtieth year of his reign. In the last year of his reign Clovis had called a council at Orleans, from which are dated the peculiar privileges claimed by the kings of France in opposition to the pope.

Clown, the buffoon or practical jester in pantomime and circus performances. On the old English stage the clown was the privileged laughter-provoker, who, without taking any part in the dramatic development of the piece represented, carried on his improvised jokes and tricks with the actors, often indeed addressing himself directly to the audience instead of confining himself to the scheduled play upon the stage. In Shakespere's dramas a distinct part is assigned to the clown, who no longer appears as an extempore jester, although the part he plays is to a certain extent the part he plays is to a certain extent in keeping with his traditional functions. He is now confined to the pantomime and the circus, in the former of which he plays a part allied to that of the

French pierrot.
Cloyne (kloin), a town in Ireland, 16 miles E. by S. of Cork, the seat of a Roman Catholic bishop. From 1638 to 1833 it was the see of a bishop of the Established Church, but in the latter year it was united with Cork and Ross. Pop. about 1400.

oil for which the flower-buds are prized.

The spice yields a very fragrant odor, and has a bitterish, pungent, and warm promotion of some common object, as taste. It is sometimes employed as a social intercourse, literature, politics, etc. hot and stimulating medicine, but is It is a peculiarly English institution, more frequently used in culinary preparations.

The coffee-houses of the 17th and Ger. Ludwig, Fr. 18th centuries are the best representatives of what is meant by a modern club, monly nothing but a kind of restaurants or taverns where people resorted to take their meals. But while anybody was governor at Soissons and occupied the free to enter a coffee-house, it was necesscountry between the Somme and the sary that a person should have been Loire. The influence of his wife Clo-formerly received as a member of a club,

Clubbing Clutha

Originally these two clubs had no pro- toot. There are several varieties. Somenounced political views, but in the end times the foot is twisted inwards (T. they began to occupy themselves with varus); sometimes the heel is raised and politics, the Kitcat Club being Whig, the toes only touch the ground (T. and the Beefsteak Club, Tory. Perhaps equinus); sometimes the foot is twisted the most celebrated club of last century outwards (T. valgus); or it rests only was that which was first called The on the heel (T. calcaneus). In most Club par excellence, and numbered among cases the deformity is curable by modern its members 10r. Johnson Sir Joshus surgery was that which was first called The Club par excellence, and numbered among cases the deformity is curable by modern its members Dr. Johnson, Sir Joshua surgery.

Reynolds, Edmund Burke, Oliver Goldsmith, Edward Gibbon, and others. The most important London political clubs situations by letting go the lee-anchor as of the present day are the Carlton Club, as soon as the wind is out of the sails, her a sort of headquarters for the Conservative party, and the Reform Club, the building belonging to which stands next to that of the Carlton Club, the great club of the Liberal party. Similar clubs exist also in Edinburgh, Glasgow, and other cities of the kingdom. Some of the London clubs are for ladies as well as gentlemen, and one or two for ladies alone. Clubs are often provided with reading-room and library, smoking-room, billiard-room, coffee-room, dining-room, drawing-room, etc., and also may have a certain number of bedrooms. Besides members may obtain their meals in them, served in the best style and at moderate cost. New members are admitted by ballot, and pay a certain entrance fee as lone time the deformity is curable by modern cases the deformity is curable by modern clubs ship in dangerous subtaints, bil dangerous subtaints, but the cuting for the wind, and being the wind is out of women's clubs are so numerous that they have long ceased to be an innovation. In France, where clubs were introduced at an early period, they soon became associations purely political in their nature, and had no uniform and regular form, as they were only tolerated during revolutionary epochs. The Club des Jacobins, the Club des Feuillants, the Club des Montrouge, were the most famous clubs of the time of the feat Table 10 to uniform and regular form, as they were only tolerated during revolutionary epochs. The Club des Jacobins, the Club des Feuillants, the Club des Cordeliers, and the Club de Montrouge. were the most famous clubs of the time of the first French revolution. After the revolutions of 1848 hosts of clubs started seems to consist of several columns or

of the day. Another club formed about club'foot (Lat., talipes), a conthe same time was the Beefsteak Club.

Originally these two clubs had no profoot. There are several varieties. Some-

bot, and pay a certain entrance fee as a Benedictine abbey, founded in 910, at well as an annual subscription. The cone time the most celebrated in France, English clubs have been imitated in different countries in Europe, but not with ferent countries in Europe, but not with the contract of the countries in Europe, but not with the countries of the countrie great success, but clubs are widely spread through the United States, even in many comparatively small cities. The large widely spread through the United States, even in many comparatively small cities. The large monks. Most of it was destroyed in whomen's clubs are so numerous that the large monks.

revolutions of 1848 hosts of clubs started seems to consist of several columns or into existence in France, Germany, and shafts clustered together; they are some-Italy; but the institution has always times attached to each other throughout their whole height, and sometimes only at the capital and base.

Clubbing, a diseased condition of plants of the cabbage family, produced by the myxomycetous southern part of the Middle Island. It fungus known as Plasmodiophora brassice, consisting in the lower part of the waters of Lakes Hawea, sice, consisting in the lower part of the Wanaka, and Wakatipu, and flows in a stem becoming swollen and misshapen.

Lime is used as an antidote.

and forms an extensive estuary or firth where he adducted such reputation in the before it enters the Irish Sea, at the second Sikh war as to receive the thanks southern extremity of the island of Bute. of Parliament and the title of K.C.B. From its source to Glasgow, where In 1854 he became major-general, with navigation begins, its length is 70 or 80 the command of the Highland Brigade in miles. Near Lanark it has three celebrated falls—the uppermost, Bonnington battles of Alma and Balaklava, and durance of the command of the battles of Alma and Balaklava, and durance of the command of the command of the battles of Alma and Balaklava, and durance of the command of the command of the battles of Alma and Balaklava, and durance of the command of the command of the battles of Alma and Balaklava, and durance of the command of the command of the battles of Alma and Balaklava, and durance of the command of the command of the battles of Alma and Balaklava, and durance of the command of the command of the battles of Alma and Balaklava, and durance of the command of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma and Balaklava, and durance of the battles of Alma a miles. Near Lanark it has three celebrated falls—the uppermost, Bonnington made navigable for large vessels up to Glasgow, and is the most valuable river in Scotland for commerce. See Glasgow.

Clyde, LORD, Sir Colin Campbell, was Campbell, was born in Glasgow, in 1792, where his father, John McLiver, a native of Mull, worked as a cabinet-maker. His mother's maiden name was Campbell, and she was the daughter of a small proprietor in Islay. By the assistance of his mother's relations he was educated at the High School of Glasgow, and afterwards at the Military Academy, Gosport. In 1808 he received an ensign's Gosport. In 1808 he received an ensign's



Clyde (klid), a river of Scotland, rank of lieutenant-colonel. In 1842 he which has its sources amid the was in China in command of the 98th hills that separate Lanarkshire from Regiment, and on the termination of the the countries of Peebles and Dumfries Chinese war took active service in India, the countries of Peebles and Dumfries Chinese war took active service in India, and forms an extensive estuary or firth where he acquired such reputation in the prated Ialis—the uppermost, Bonnington patties of Alma and Balaklava, and dur-Linn, about 30 feet high; the next, Cora Linn, where the water takes three dis-so that on the outbreak of the Indian tinct leaps, each about as high; and the lowest, Stonebyres, also three distinct command there. Landing at Calcutta on falls, altogether about 80 feet. The August 29, 1857, he relieved Havelock Clyde, by artificial deepening, has been made navigable for large vessels up to Classow and is the mest valuable size.

pose of being retained, as when opium is thus administered in cases of diarrhoea.

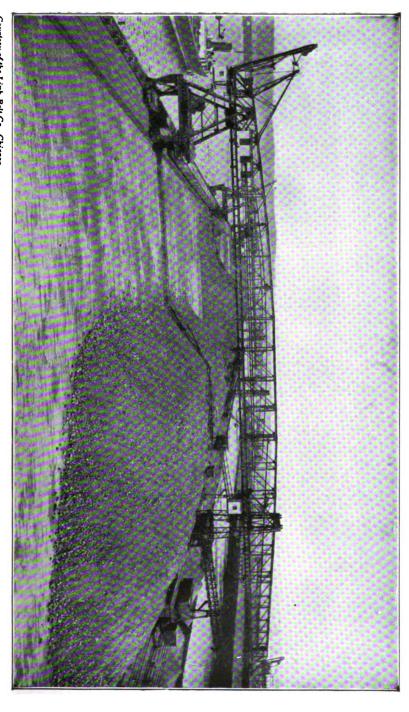
thus administered in cases of diarrhœa. Clytemnestra (klit-em-nes'tra), in Greek mythology, daughter of King Tyndareus and Leda, and half-sister of Helen. During the absence of Agamemnon in the war against Troy she bestowed her favors on Ægisthus, and, in connection with him, murdered Agamemnon on his return from Troy, and together with her paramour, governed Mycenæ for seven years. Her son Orestes killed them both. See Agamemnon and Orestes.

Agamemnon and Orestes.

Cnidus (ni'dus), or GNIDUS, an ancient Greek town in Caria, a province of Asia Minor, a great seat of the worship of Aphrodite (Venus). who had three temples here, in one of which was a famous statue of the goddess by Praxiteles.

Lord Clyde.

Commission in the 9th Regiment of Foot, having previously changed his name to Campbell, at the suggestion of his regarded in Spain under Sir John Moore and Wellington, being engaged in the battles of Barossa and Vittoria, and having displayed distinguished gallantry at the siege of San Sebastian, where, as well as at the Bidassoa, he was severely wounded. In 1819-25 he was in the Empire they went out of use again, and West Indies. In 1835 he attained the Coach (kôch), a general name for all Coach (kôch), a general name for all covered carriages drawn by horses and intended for the rapid converged carriages appear to have been all open, if we may judge from the figures of Assign and Babylonian chariots found on the monuments discovered amid the ruins of Nineveh and Babylon. At Rome to Single Post of Nineveh and Babylonian chariots found on the monuments discovered carriages were in use. After the fall of the Roman was severely were in use. After the fall of the Roman was severely were in use to covered carriages of the covered carriages of passengers. The earliest carriages appear to have been all open, if we may judge from the figures of Assign and Post of Nineveh and Babylonian chariots found on the monuments discovered amid the ruins of Nineveh and Babylonian chariots found on the monuments discovered amid the ruins of Nineveh and Babylonian chariots found on the monuments discovered amid the ruins of Nineveh and Babylonian chariots found on the monuments discovered amid the ruins of Nineveh and Babylonian chariots found on the monuments discovered amid the ruins of Nineveh and Babylonian chariots found on the monuments discovered amid the ruins of Nineveh and Babylonian chariots found on the monuments discovered amid the ruins of Nineveh and Babylonian chariots found on the monuments discovered amid the ruins of Nineveh and Babylonian chariots found on the monuments discovered amid the ruins of Nineveh and Babylonian chariots found on the monuments discovered amid the ruins of Nineveh and Babylo



Courtesy of the Link-Bell Co., Chicago,

HANDLING COAL

Four-ton grab buckets operating on the four bridge tramways pick up the coal from the holds of the lake steamers and deposit it either on the dock or in cars. The four machines can be moved to any part of the dock to which steamers are moored and four ships can be unloaded rapidly at one time. The motive power is electricity.

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to ride on horseback, the use of carriages being considered effeminate. They do not appear to have become common till a more or less solid substance, or the the fifteenth century, and even then were regarded exclusively as vehicles for wo-men and invalids. Later on they be-came, especially in Germany, part of the appendages of royalty. They seem to have been introduced into England the have been introduced into England the middle of the sixteenth century, but were long confined to the aristocracy and the wealthy classes. Hackney-coaches were first used in London in 1625. They were then only twenty in number, and were kept at the hotels, where they had to be applied for when wanted. In 1634 coaches waiting to be hired at a particular stand were introduced, and had increased to 200 in 1652, to 800 in 1710, and to 1000 in 1771. Stage-coaches were introduced into England about the same time as hackney-coaches. The first stageas hackney-coaches. The first stage-coach in London appears to have run in the seventeenth century, and before the end of the century they were started on three of the principal roads in England. Their speed was at first very moderate, about 3 or 4 miles an hour. They could about 3 or 4 miles an hour. They could only run in the summer, and even then their progress was often greatly hindered by floods and by the wretched state of the roads generally. In 1700 it took a week to travel from York to London; in 1754 a body of Manchester merchants started a conveyance, the Flying Coach, and oxygen contained in the vegetation, of an improved kind, which did the leaving the carbon behind. Hence there journey to London in the unusually short are few traces of its vegetable origin period of four days and a half. The found in coal. Nevertheless the outlines period of four days and a nair. The system of mail-coaches was established in London in 1784 and these continued to be the means of traveling in England until their place was taken by the railways. In the United States the unsettled state of the roads in the colonial period delayed the introduction of coaches and delayed the introduction or coaches and it was late in the eighteenth century before a stage-coach line was started between Philadelphia and New York, the two largest cities, a wagon twice a week, and making three miles an hour, sufficing for all travel at first. In 1768 sumeng for all travel at nrst. In 1766 a coach was put on that made the journey in two days, and was advertised as a 'flying machine.' In 1789 it took a week to travel by stage from New York to Boston, the coaches often sticking fast in the mud. Within recent years the coach has largely been replaced by the automobile.

Coadjutor (kō-a-jö'tor), a Latin term, nearly synonymous in its original meaning with assistant. The

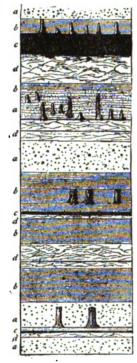
separation of a substance from a solution. separation of a substance from a solution, through the substance becoming more or less solid. Thus, albumin of egg can be dissolved in cold water, but if the solution be warmed, the albumin undergoes a change, separates out in white, flocky masses, and cannot again be redissolved in the water. Coagulation is well exemplified by the 'curding' of milk and 'clotting' of blood.

Coahuila (kō-à-wē'là), a state of Mexico, on the frontier of the United States, rich in woods and pastures, and having several silver-mines; area, 63,569 square miles; pop. 367,652. Coaita (kō'a-ti), Atèles paniscus, one of the largest of the S. American monkeys, belonging to those known as spider monkeys, black in color, and very docile in captivity.

Coal is formed from vast deposits of vegetable matter of the carboniferous age, during which the growth of plants was luxuriant. In course of time decay took place in the fallen plants and succeeding centuries covered them with a sediment of mud and sand that arrested their destruction and exerted a pressure that combined with heat, and chemical action slowly drove off most of the hydrogen of leaves and stems that have entered into its formation are sometimes seen, and in sandstones, clays and shales with which coal is found the plants from which it originated are found distributed freely in the fossil state, and, more rarely, the trunks of trees with roots extending down trunks of trees with roots extending down into the subjacent clay formation. These, though replaced by mineral substances, have preserved their structural features so perfectly that botanists have been able to establish their affinity with existing species. Tree fossils of large size so recognized have been found to be related to the content of the lated closely to the arancavia as found in South America and Australia. The commoner forms of vegetable life found in the rocks of the coal formation include the sigillaria and stigmaria, the lepidodendron, the calamite and tree ferns. From the animal fossils in coal it is to be as-sumed that some deposits occurred in fresh water, probably lakes, while others original meaning with assistant. The appear to have occurred at the mouths of term is especially applied to an assistant rivers reaching salt water. The period bishop appointed to act for and succeed during which the transformation of the vegetable into the mineral substance was

to be quite undeterminable.

Anthracite, or hard coal, has undergone greater degree of decomposition than bituminous or soft coal. It is the oldest of the coal formations and contains most uncombined carbon, the percentage being from 90 to 94%, the remainder consisting of hydrogen, oxygen and ash. It is pure black, or with a bluish metallic lustre and has a specific gravity of 1 46 or about the same as that of the hard woods. It burns



Section of part of a coal-field, showing a succession of buried trees and land surface: sandstones; b, shales; c, coal-seams d, under-clays or soils.

with little flame, is practically smokeless and deposits no soot in the chimneys, nor does it give off gas to any extent. Hence it is the ideal fuel for domestic use and for furnaces and malt kilns. It is less abundant than other varieties and greater in price. It was first discovered in Penn-

gone less pressure and is less decomposed. petroleum. See Coal Mining.

effected was of long duration, so long as As its name indicates, it contains bitumen, a soft, mineral substance, a native mixture of hydrocarbons, oxygenated, that oozes out when it is subjected to heat. It contains from 75% to 85% of carbon, with traces of sulphur, and a greater percentage of hydrogen and oxygen than anthracite. It is black and on its smooth surfaces is glossy, but lacks the bluish lustre that sometimes appears in hard coal. It is also softer than anthracite. Its specific gravity is 1.27. In burning it with a substitute allowing the surface of the surfac it emits a yellowish flame, much greater than that given out by hard coal, and gives less heat, while its imperfect com-bustion produces heavy, black smoke and diffuses disagreeable gases. The hydrodiffuses disagreeable gases. carbons can be driven off as gases by heating the coal without access of air. In this way one kind of illuminating gas is made and the carbonaceous residue is coke.

Cannel, or gas coal, is of the bituminous variety, but contains less uncombined carbon than the coking or furnace kinds; it burns freely and is used largely in making illuminating gas.

Lignite is of comparatively very recent formation, intermediate between bituminous and peat; indeed, a period of less than ous and peat; indeed, a period of less than five hundred years is known to have converted timber into a sort of lignite. The percentage of carbon in lignite, which is brownish in color, never exceeds 70%, and the ash shows that a considerable quantity of earthy matter enters into its composition. It exhibits much of the structure of the wood from which it is formed. Its heat-giving property is low, hence it can be used only where a hot fire is not needed, but it is very volatile.

Peat is the latest of the coal formations. It has undergone but a partial change from its original state and the slight pressure to which it has been subjected by the small covering of sediment has given it but little density; it contains over 50% of volatile matter. It forms in boggy ground from plants undergoing decay and covered by water. The roots and stems of plants become matted and, mixed with earthy matter, form peat. It contains earthy matter, form peat. much water, especially near the top of the layer when removed from the bog, but the bottom greatly resembles lignite in appearance. As a fuel it is chiefly used where coal and wood are scarce and high in price. Many experiments have been made to treat this substance for more general use as a fuel, and considerable success has followed the method of satusylvania in 1791.

Bituminous, or soft coal, is of later formation than anthracite; it has under-abundance of peat and a cheap supply of Coal Brass, the iron pyrites found in coal measures, so named its brassy appearance. Coal containing much pyrites is bad for iron smelting, and it is unpleasant for domestic use on account of the sulphurous acid which it gives off on burning. Coal brass is useful in the manufacture of copperas, and in alkali works.

Coalbrookdale (köl'bruk-dāl), a n English coal and iron producing district in Salop, along the bank of the Severn.

Coaldale, a borough in Schuylkill county, Pennsylvania, near Tamaqua. It has coal-mining interests. Pop. 5154.

Coal-fish, a species of the cod genus (Gadus carbonarius), named from the color of its back. It grows to a length of 2½ feet, and is found in great numbers about the Orkneys and the northern parts of Britain. In Scotland it is generally known as the sethe or seath. Coal Gas, the variety of carburetted hydrogen, produced from coal, which is used for common gaslight. Coaling Stations, stations established at various estabimportant points over the ocean, where ships, both of the navy and the mercantile marine, may obtain supplies of coal. The utility of such stations, when properly fortified, as points of refuge, defense, and repair in the event of war can hardly be over-estimated. Britain has very many of them in accordance with the width of its interests, the United States, as yet, comparatively few.

(kō-a-li'shun), a term used Coalition in diplomacy and politics to denote a union between different par-ties not of the same opinions, but who agree to act together for a particular ob-ject. Among states it is understood to mean theoretically something less general in its ends and less deeply founded than

an alliance. Coal Measures, the upper division of the carboniferous system, consisting of beds of sandstone, shale, etc., between which are coal-seams. Coal Mining. The depth, thickness and direction of the coal seams having been determined by prospecting, the next step is the provision of shafts. Several considerations govern their location, such as the contour of the surface, the adjacency and availability of likewise a lack of transportation, the facility of generating are frequently may power, the inclination of the strata, the statements are using the coal. In cases where the seams two methods, kno outcrop at the surface, drifts are driven long-wall work.

the iron pyrites found in directly into them, and in hilly sections coal measures, so named tunnels are opened to them through the intervening rock. It is, however, far more general to have recourse to the sinking of shafts, by which entrance the transmis-sion of power to the workings, their ventilation and the pumping of water is effected. The shafts are driven with particular regard to the depth and the dip of the seam. Where the depth is only of the seam. moderate and the dip is gentle, it is eco-nomical to locate the shafts at the lower level of the seam, whereas where the seam is deep and without inclination it is found advantageous to locate the shafts as near to the centre of the mine as may be, so as to facilitate operations to the greatest possible extent. Shafts vary in size and shape, the determination of which depends particularly on the extent and depth of the workings and somewhat upon the locality. They are either rectangular, which is more common in the United States, owing to the readier supply of timber for lining, elliptical, or circular, the latter shape being now more generally favored because of their greater inherent strength. An important advantage of the circular shaft is that it offers the least resistance to the passage of ventilating air currents. The size of the shafts depends on the depth and output of the mine and the number of cages to be hoisted. A shaft of sufficient size for an output of 1200 to 1500 tons a day should have a diameter of about 20 feet. Two shafts are necessary for each mine, and these must be furnished with a winding gear at the surface. The bottom of the gear at the surrace. The bottom of the shafts are arched over, forming what is termed the 'porch,' in order to strengthen it, the thickness being proportionate to the weight and pressure that it may be expected to bear, and wooden blocks are sometimes also built into it to give elasticity under sudden pressure and in additional transfer are successful. ticity under sudden pressure and in addition an inverted arch is in some cases built into the floor. Still further protec-tion of the shafts and strengthening against surface weight is afforded by leaving a pillar of solid coal surrounding the shaft. The depth at which coal may be profitably mined is about 3000 feet, although in some cases, as in Belgium. mines are worked at a depth of 4000 feet. The regulations governing the mining of coal vary considerably in different countries and in the United States there is likewise a lack of uniformity and changes are frequently made, so that only general statements are useful here.

Working is carried on by practically two methods, known as pillar work and The first comprises

'pillar-and-stall,' 'bord-and-pillar' and 'room-and-pillar' and is done by driving roads or stalls through the coal and connecting them by cross-passages, leaving pillars of coal between them to support sufficient work has been effected in this manner the pillars are cut away and the roof is supported by heavy timbers. In the second, or long-wall work, all the coal is removed as the work proceeds from the pillar at the shaft, the face gradually extending. The waste or 'goaf' is extending. The waste or 'goaf' is stacked behind, and through this com-municating roads are left open. This is municating roads are left open. Inis is what is known as long-wall working forward. The opposite plan, or long-wall working back, is effected by driving the roads to the outside or boundary of the mine and then taking the coal backward towards the shaft. This plan avoids the necessity of keeping roads open through the waste coal and is so far more desirable, but, of course, it involves greater capital outlay. Where spontaneous combustion is probable this plan is chiefly used. Long-wall working is best adapted to thin seams; where the seams are thick, or near the surface, or beneath towns, indeed in all cases where there is danger of subsi-dence the pillar-and-stall method is practised. In the United States it is the one largely used. In getting the coal it is indispensable that the workings be prop-erly supported. This is carried out by timbering the roofs and sides of roadways and the coal faces, and for this purpose the best materials are pine, fir, and oak, which are creosoted. In the pillar method there is, of course, less need for timber support, the pillars themselves affording the chief protection, but timber roof props are also used to prevent the fall of loose portions, and at the road-ways adjacent to the faces cross-pieces are used, supported by props or hitches in the side wall. Still other strengthening is effected in the haulage ways with steel and iron supports, brick arch work or

and from supports, brick arch work or brick walls and girders.

Getting the Coal. The first stage is bringing down the coal, which is done either by blasting without preliminary work, and is called 'shooting off the solid'; or by blasting preceded by undercutting or 'shearing,' so as to give more than one face to the action of the explosive; this requires that groups be cut plosive; this requires that grooves be cut vertically parallel to the walls. In the former, called 'holing,' a notch or groove

All coal seams, except and or by blasting. anthracite, have planes of cleavage which admit of ready splitting. Roads driven in the direction of such planes are known as 'ends,' and those driven across them are styled 'bords,' or 'boards,' the latter enabling easier working than from the 'ends.' Cutting by mechanical means is used chiefly in thin seams because of the increased output they allow, the greater speed of the operation, that they produce less small coal, and that there is the minimum risk of the falling of the roof. The principles of operation in the two types of cutters used in the United States are those of a pick or drill and a chain-cutter. The former gives a rapid succes-sion of sharp blows with a long, chisellike pick; the latter operates with a series of cutting wheels rotating on an endless chain driven by a motor, either compressed air or electricity. Gunpowder is used in making the blast in wet mines where there is no gas present, but in dry and dusty ones, or where gas is present, it is necessary to use some flameless high explosive, which in exploding discharges an aqueous vapor that destroys any tendency

to ignite coal dust or gas, if present.

Hauling. Coal is hauled from the workings to the shaft by hand labor, horses, or mechanical power; hand labor, horses, or mechanical power; hand labor, obviously, is used only in small mines. Mechanical power systems are: (1) the jig or self-acting incline, feasible only where the shaft's bottom is at the lowest point of the coal seam, in which case the cars loaded with coal running down the incline pull up the empty ones, the wire rope attached to the descending load being fastened over a pulley or drum at the upper end of the incline and its other end attached to the returning empty cars. Friction rollers set at intervals between the rails on the incline carry the rope. Where a double line of rails cannot be used, the single track is provided with a pass half-way where the descending and ascending cars meet and pass. Sometimes a single line is employed throughout, when a balance weight runs between the rails alternately, being drawn up by a loaded cars and drawing up an empty one.

(2) Single rope haulage is employed where the shaft's bottom is at the top of an incline; in this case the full cars are hauled up by a winding engine and the empty set run back by gravity. The most generally used system is the endless rope, which is adapted not only to level seams but may be advantageously used on steep attached to the returning empty cars. is cut in the floor of the seam, extending but may be advantageously used on steep about three feet back from the face, leav-roads. Usually, a double line of road is ing the overhanging rock supported by better. The cars run in sets of ten or timbers called 'sprags,' to fall of itself twelve, and a stretching pulley is used to

requires a double roadway, one of which accommodates the full cars and the other the empty. The chain passes over a pulley driven by an engine so placed that the chain rests on the top of the car and passes round a second similar pulley at the far end of the plane. The endless rope overhead is substantially similar system overhead is substantially similar to the endless chain plan. Main and tail rope haulage is employed where the incline is insufficient or not uniform, and a sec-ond rope is needed to haul back the empty cars. One road only is required, as in the case of single rope haulage. A second rope, the tail rope, supplements the main rope that runs direct from the engine drum to the head of the loaded cars; the tail rope runs from a drum on the same shaft as the main rope drum, along the side of the roof or roadway, and passes around a return pulley at the end of the road to the end of the set of loaded cars. This rope draws back the empty cars as the main rope hauls in the loaded ones. Besides these methods underground haulage is done in the United States and in Europe in mines where mine roadways are Europe in mines where mine roadways are flat or have only slight inclines by loco-motives operated by compressed air, elec-tricity and internal combustion. In the case of seams too shallow to admit of using cars for hauling, conveyors are used, operated by compressed air or electricity; these conveyors are low wagons jointed in sections, from which the coal is discharged

into cars at the bottom of the shaft.

Reising the Coal to the Surface from
the bottom of the shaft on the arrival of the cars from the workings is effected by running them into the cage over rails to which they are locked. The cage is con-structed of a framework of vertical iron or steel bars and has a top bar to which the hoisting rope is attached. The cage is the hoisting rope is attached. The cage is provided with a deck or decks, in some cases as many as five, and each deck will hold two cars. The cage runs within guides of wood or other material affixed to the walls of the shaft; sometimes four guides are used, but more frequently three, two on one side of the shaft and one on the opposite side, placed intermediate as related to the guides on the wall facing. By some managers only two guides are provided, which they consider safest. The hoisting is effected by means of wire rope hoisting is enected by means of wire rope secure great speed with a minimum of of steel, with a diameter of about two weight and size. In furnishing an indiscinches; this rope is attached by tackling pensable volume of fresh air to the workchains to the cage. The hauling or drawings at all times, calculations must include ing rope is carried over a head gear or pulley frame at the top of the shaft and the workings may be supplied then around a drum of like diameter with fresh air, it becomes necessary to driven by the winding engine. This gear split or divide the current at different

keep the rope taut when the pull of the or frame is from 80 to 100 feet above the load lessens. The endless chain system surface level to give head room to the surface level to give head room to the cage, the landing platform being generally placed at some height above the ground. The head gear is provided with automatic devices to avoid disaster, such as detaching hooks that operate in case of overwinding; safety catches are also furnished to hold the cage should it get out of control or become detached from the rope. On reaching the platform at the top of the On reaching the platform at the top of the shaft the cars move by gravity to a weighing machine and then to the 'tipple, a cage turning upon a horizontal axis that is devised to discharge the load in the first half of the rotation and restores the car to its normal position in the second, after which it is drawn by an end-less chain, or creeper, fitted with grips or hooks, to the cage, to resume its trip to

the workings.

Ventilation is one of the most important of the problems with which coal mine operators have to grapple. Not merely has the impure air to be drawn from the the workings, but the possible presence of gases must be considered. Ventilation is gases must be considered. Ventilation is sobtained by keeping in movement in the same direction a large volume of air which is brought from the surface by the 'downcast' and is carried out of the workings by the 'upcast' shaft. To effect this, powerful mechanical means are needed. The method principally used is supelustion by machiners. It is constituted exhaustion by machinery. It is sometimes done by the rarefaction of the air in the 'upcast' shaft by means of a furnace at the bottom of the shaft. The furnace may be worked by the return air where there is no gas, but it is far better to take fresh air directly from the 'downcast,' and never must the return air from a flery mine be allowed to reach the furnace.

Ventilation by exhaustion is conducted by two methods, direct exhaustion and centrifugal displacement of the air to be removed. The latter is more generally adopted, as the weight of the machines required by the former results in too slow a rotation. This method drives the heated air at the bottom of the shaft forward and upward through it, through the pressure of the colder air behind it. In centrifugal displacement, fans are placed at the top of the 'downcast' shaft in some cases. There are several kinds of centrifugal fans, but the main essential is to secure great speed with a minimum of weight and size. In furnishing an indispoints in its path and convey it directly workings use is made of steam or comto the places where it is needed. It is further necessary to prevent the mixing of an intake current with a return cur-rent; this is done by passing one current over the other by means of an air-crossing, and providing temporary partitions, brattices, constructed with wood or with wood and cloth, in cases where the intake and return airways pass along the same passage, thus separating the currents. Where the workings reach great distances from the shaft, very powerful ventilating fans must be used to overcome air resistance and from 250 to 500 H. P. engines are employed.

Lighting fills an important part in the operation of collieries. In mines that are free from gas naked lights may be used; oil lamps are commonly used in some parts of Europe, but electricity is fast dis-

placing it.

Gas constitutes a great hazard to workers in coal mines. Explosions due to a sudden release of stored-up gas in coal masses, 'blowers' as they are called, are often given off at high tension and are too great for dilution by the ventilating ourrent. Methane, marsh gas, or fire-damp, is the chief gas to be provided against. When diluted in from four to twelve times its volume of atmospheric air, it is explosive, but it burns quietly when the air dilution is greater or less than the proportions mentioned. Coal dust also constitutes a serious danger in dry mines. Although it is not likely to be ignited by a naked light or flame, it may explode, even, though not usually, in the absence of gas. Against such dangers constant precaution is exercised, and protective measures are always under consideration.

Pumping. In different mines the pumping of the water is of greater or less concern, depending on the depth of the workings. To keep the workings free of water it is drawn off into the shafts and from there pumped to the surface. Where, however, there is but a small quantity it is raised in tanks operated with the cage or independently of it. Sometimes the water is removed by syphoning, but this method, as well as that by tank removal, is quite unimportant in comparison with the method of continuous pumping. For this purpose an engine at the surface operates rods that pass down the shaft to the pumps, or the water may be forced to the surface by means of steam, compressed air, hydraulic pressure, or electric pumps set at the bottom of the shaft. To bring the water from the workings to the shaft's bottom pumps are also employed, of which there are several designs.

For the transmission of power to the

pressed air, or water under pressure in pipes, electricity, or wooden or iron rods. Steam power is generally used, however, to operate the winding and hauling machinery, but it is less advantageously used in transmitting underground power. Compressed air is a desirable agent for cutting, drilling, hauling and pumping machines, but it offers the disadvantages of greater cost and low efficiency. Hydraulic pressure is made use of also in underground pumping as a means of transmitting power. A system of endless wire ropes or chains operated from the surface has likewise been used for underground hauling, as well as to operate dynamos and drive ventilating fans. But dynamos and drive ventuating lans. But electricity is displacing other powers for underground work, as well as for ventilating, lighting and hauling. It has its drawbacks in the liability of sparking at the motor and of short circuiting, but experience and care minimize these and its employment is rapidly extending in col-

liery working.

Grading. As the coal leaves the tipple it falls on screens which sort it into various sizes, after which it is carried on a long travelling belt, three to five feet wide, and is then sorted by hand and the waste removed. The grades usual in the American market are: rice, pea, chestnut, stove, egg, broken and steam sizes. There are also buckwheat, which is smaller than pea, and cherry, which is larger. Coal is sometimes put through a washing process, which is effected by conveying it by bucket-elevator to a stream of water, or by passing a stream of water through and over the coal which has been placed in a trough or tank. By this means the dirt, being heavier, sinks to the bottom, while the coal passes away with the water.

The most extensive coal fields in the world are located in the United States. Its distribution in quantities of commerris distribution in quantities of commercial value extends to twenty-eight States and the Territory of Alaska. Anthracite is produced only in Pennsylvania, New Mexico and Arizona, the last two furnishing only about 100,000 tons per year. The States in which bituminous coal is worked States in which bituminous coal is worked are: Alabama, Arkansas, California, Colorado, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Maryland, Michigan, Missouri, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Tennessee, Texas, Utah, Virginia, Washington, West Virginia and Wyoming. The chief producing of these are Pennsylvania, yielding over one-third of the total production, West Virginia, over one-seventh, Illinois, nearly one-ninth, and Ohio, nearly one-twelfth,

the last three together yielding a little over nine-tenths of the product of Pennsylvania. The total, in long tons, of anthracite yielded by Pennsylvania in 1915 was 79,459,836, and in value, \$184,-653,498. The aggregate output in the linited States of hitmingus in the same United States of bituminous in the same year included brown coal and lignite, and the small output of anthracite outside of Pennsylvania was 442,626,426 short tons, of the value of \$502,037,688. It may be noted that of the coal-bearing formations in the four great producing States mentioned, Illinois possesses about 42,000 square miles, West Virginia, 17,000, Pennsylvania, 15,800, and Ohio, 12,000, together about 87,000 out of a total coalbearing area in the United States of about 260,000 square miles, and that their annual output is over two-thirds of the total yield of the United States. The other important producing States are Indiana, about 16,000,000 tons, Alabama, 14,000,000, Kentucky, 13,000,000, Colorado, 10,600,000, Unwa, 7,000,000, Wyoming, 6,700,000, Tennessee, 6,300,000, and Virginia, 5,800,000. in the four great producing States men-

Comparing the yield of the United States with that of Europe, it will be seen that Great Britain only approaches with a total of 300,000,000 tons in 1914, while Germany furnished in the same year 175,-000,000 tons. France, Russia and Belgium each have large coal-bearing areas, the product of which has been of great importance in contributing to their manufacturing and industrial progress. China, Japan and India also contain large coal fields, in all almost equal to the coal-bearing area of the United States. Discussions are frequently recurring as to the period of exhaustion of the coal supply. In the United States, broadly speaking, the resources are so great that such a crisis need not be very seriously considered. But in Europe, where the reserves are so much less, the subject has created serious discussion and official investiga-

Coal-plants, such plants as have by their remains formed coal, chiefly allied to the ferns, lycopods, and horse-tails. See Coal.

Coal Tar, or GAS-TAR, a substance obtained in the distillation of

coal for the manufacture of illuminating gas, a dark-colored more or less viscid mass, consisting principally of oily hydro-carbons. It passes over with the gas into the condensers along with ammonia liquor, vessels, and where provision is made for but being heavier than the latter, it is furnishing men when additional force is easily separated from it when the whole needed. Forts are built in places where is allowed to stand. It was formerly of the coast artillery may co-operate with comparatively little use; but in recent the navy in obstructing the advance of

years a great number of valuable products have been derived from it by distillation, such as ammonia, naphtha, creosote, car-bolic acid and benzene, while it is also the source of the whole series of aniline colors, and other dyes, of alizarine, salicylic acid,

Coanza (kō-an'za), a large river of West Africa, entering the Atlantic near 9° 10′ s.

Coast Artillery, the term applied to guns of heaviest caliber, used for the armament of permanent works, chiefly on the seacoast. carriages do not subserve the purposes of transportation. Four systems of mounting are used with such artillery, i. e., the disappearing, the turret, the barbetteand the mortar-carriage.

In the United States these guns constitute the only system of permanent fortification. For purposes of administration and instruction the coast artillery of the continental United States is organized into three districts—the North Atlantic, including all the forts from Maine to New York harbor, inclusive; the South Atlantic, including those from Delaware Bay to Texas, inclusive; and the South Pacific, including those from California to Washington, inclusive. These districts are commanded by colonels of the Coast Artillery Corps or by brigadier-generals appointed from that branch of the U. S. A. The forts of each harbor are grouped into commands called Coast Defonses, each designated by the name of the harbor on which located. In the outlying possessions of the United States the seacoast forts are organized into separate coast defenses. The Coast Artillery Corps is that part of the U.S. A. which is engaged in serving the seacoast guns.

Coast Defense, the systematic protection of a country against hostile attack along its coast-lines. In providing such defense a nation will consider not only the safety of its territory, but also the security of its com-mercial interests. In any system of coast defense a good navy is the most important feature; and so essential is it considered, that all other means are regarded as ad-juncts or auxiliaries of the navy. Along a well-defended coast, in suitable places, are stations or points of support where is stored the requisite material for building, equipping, repairing, and supplying naval

an enemy intending to capture a city or ment of laws relating to an intending to invade the country; where their guns vessels, neutrality, quarantine, and immimay command the entrance to a harbor gration laws; suppression of mutinies on or other approach by water; wherever board merchant vessels; protection of they may cripple the enemy's attack on game, and the seal and other fisheries in or other approach by water, waters they may cripple the enemy's attack on the defensive fleet, leaving it free to at-tack the enemy in turn; where forts may assist each other and co-operate in repelling an invasion or preventing a blockade or a bombardment; where minor channels of approach may be closed or guarded, thus enabling the navy to give entire attention to the main channel, etc.

Torpedo-boats, harbor-mines and the searchlight are all valuable aids for the forts. The unfortified coast, as well as the land approaches to cities, must be defended in time of war by whatever means are at command. National policy determines the character and extent of coast defense, and long-continued friendly relations with other countries may make extensive protection unnecessary.

The history of modern coast defense in the United States begins with the creation of the Gun Foundry Board in 1884, which was succeeded by the so-called Endicott Board in 1886. In its final report the Endicott Board fully and clearly set forth the general principles governing coast defense and algebrated a suitable coast defense, and elaborated a suitable system. The changed conditions since 1886, due to the development of guns, smokeless powder, and all kinds of munitions of war, made it advisable to revise the system of the Endicott Board, and the National Coast Defense Board, composed National Coast Defense Board, composed of distinguished army and navy officers, under the presidency of W. H. Taft, then Secretary of War, was convened. This board, known as the Taft Board, submitted its report early in 1906. The Taft Board recommended the fortification of 29 ports in the United States (7 more than under the plans of the Endicott Board), 6 in the insular possessions, and 2 in the Canal Zone.

Coast Guard Service, U.S., the plied to the service created by an act of Congress in 1915, merging the Revenue Cutter and Life-saving Services of the United States. In general the duties of the Revenue Cutter Service, which devolved upon the Coast Guard, were: Assistance of the Revenue Cutter Service, which devolved upon the Coast Guard, were: Assistance of the Revenue Cutter Services. sistance of vessels in distress; co-operation with the navy when directed by the President; destruction of derelicts and other menaces to navigation; protection of the customs revenue; enforcement of the navigation and other laws governing merchant vessels and motor boats; inter-national patrol of the ice fields in the genus Nasua, belonging to the Ursides or North Atlantic; regulation and policing bears, but recalling rather the raccoon or of regattas and marine parades; enforce-civets, and having a long proboscis or

an enemy intending to capture a city or ment of laws relating to anchorage of Alaska; suppression of illegal traffic in firearms, ammunition, and spirits in Alaska; medical aid to seamen of the deep-sea-fishing fleets.

> Coast and Geodetic Survey. a scientific department of the government of the United States, for the purpose of making geodetic and hydrographic sur-veys to determine the coast-line; of making charts of harbors and tide waters. and of the bottom of the ocean along the coast; of indicating positions for the erec-tion of lighthouses; and the making of various meteorological and other observations. It extends its observations to all parts of the globe, as serviceable to navi-

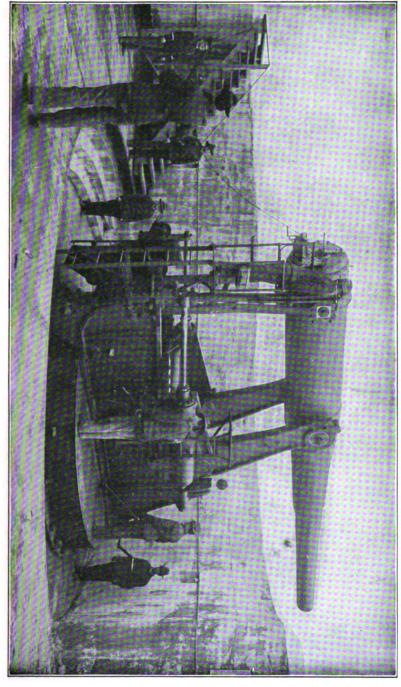
> cation. Coast Mountains, Coast Range, a range or series of ranges extending along the west of California, Oregon, Washington and Brit-ish Columbia, at no great distance from the Pacific coast, and rising to the height of 11,000 feet.

> Coastwise Trade, or COASTING TRADE, the maritime commerce between ports of the same country, usually limited by law to ships of domestic ownership. The coastwise trade of Great Britain is not so limited. trade of Great Britain is not so limited, but that of Canada is limited to Britishbuilt vessels, and that of the United States to American vessels (vessels built within the United States, forfeited for breach of laws, or captured in war). The coastwise trade of the United States, always of great importance because of the enormous coast-line, was stimulated by the opening of the Panama Canal in 1915.

> Coatbridge (köt'brij), a town in Scotland, Lanarkshire, 9½ miles east of Glasgow. The district abounds in coal and ironstone, and the place is a thriving town, supported chiefly by the ironworks, engineering establishments, etc., in the neighborhood. Pop. (1911) 43,287.

> Coatesville (kōts'vil), a borough of Chester Co., Pennsylvania, 38 miles w. of Philadelphia. It has rolling mills, steel plants, silk and woolen mills, etc. Pop. 11,084.

Coati, or Coati-Monoi (ko'a-ti mun'di), a name of South American
plantigrade carnivorous mammals, of the



COAST DEFENSE GUN

A modern 14-inch coast defense gun at Sandy Hook. The gun is mounted on a disappearing carriage, which lowers it out of sight behind the breastworks after firing. This is one of the most powerful guns in the world, firing a projectile weighing 1,000 pounds with a muszle velocity of 2,300 feet per second, and a range of over ten miles.

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consisting of a network of iron or steel rings, or of small laminæ or plates, (1791). During his service in the army usually of tempered iron, laid over each Cobbett had employed all his spare time other like the scales of a fish, and fastened to a strong linen or leather jacket. Cobbett had employed all his spare time other like the scales of a fish, and fastened to a strong linen or leather jacket. Cobalt (kō'balt; G. kobolt, kobolt, the ceded to America to commence as a same word as kobold, a goblin, the demon of the mines, so called by miners because cobalt was troublesome pumphlets of a strongly anti-republican to miners, and at first its value was not known), a metal with the symbol Co, England, and on his arrival started first specific gravity 8.5, of a grayish-white the Porcupine, a daily paper, which had color, very brittle, of a fine close grain, small success, then the Weekly Political recompact, but easily reducible to powder. Register, which soon acquired a great circulation. The Register had started are arranged under the following species, viz., arsenical cobalt, of a white color, passing to steel gray; its libel, Cobbett continued his attacks on the most daring and the government; in consequence of which lowing species, viz., arsenical cooali, of a ponents. Three times heavily is white color, passing to steel gray; its libel, Cobbett continued his att texture is granular, and when heated it the government, in consequence exhales the odor of garlic; gray cobalt, a he deemed it prudent to retreat compound of cobalt, arsenic, iron and United States (1817), transmit sulphur, of a white color, with a tinge articles regularly, however, for the of red; its structure is foliated, and its ister. In 1819 he returned to crystals have a cube for their primitive and made an unsuccessful attemptorm; sulphide of cobalt, compact and into Parliament for Coventry.

miles northeast of Guatemala. It is the center of a rich coffee and cane producing Cobden (kob'den), RICHARD, an Engregion, and a trade in hides, skins, rubber and sarsaparilla. Pop. about 31.000. free trade,' born in Sussex in 1804; died Cobbett (kob'bet), WILLIAM, an English writer and politician, very meager education he was taken as an was the son of a farmer and publican apprentice into a warehouse in London at Farnham in Surrey, and born there belonging to his uncle, and in this situation March 9, 1762. In 1783 he sought tion he rapidly made up for the defects his way to London and obtained a sit-of his education by his own diligence. uation as copying-clerk to an attorney, In 1830, being left by the failure of his

snout. They feed on worms, insects, and but after nine months he enlisted in the smaller quadrupeds.

Coat of Arms. See Arms and Herwith the regiment to Nova Scotia. His the government, in consequence of which he deemed it prudent to retreat to the United States (1817), transmitting his articles regularly, however, for the Register. In 1819 he returned to England, and made an unsuccessful attempt to get form; sulphide of cobalt, compact and into Parliament for Coventry. About massive in its structure; oxide of cobalt, the same period he commenced a series of brown or brownish black, generally fripapers entitled Rural Rides, afterwards able and earthy; sulphate and arsenate reprinted, which contain charming picof cobalt, both of a red color, the former tures of English country scenery, and soluble in water. The great use of cobalt are among the best of his productions. is to give a permanent blue color to In 1824-27 appeared his History of the glass and enamels upon metals, porcelain, and earthenwares.

Cobalt, a town of Ontario province, the passing of the Reform Bill in 1832 he About and earthenwares.

Cobalt, a town of Ontario province, Cobalt, Canada. Pop. (1911) 5629.

Cobalt-blue, a compound of alumina and oxide of cobalt. The passing of the Reform Bill in 1832 he was returned as member for Oldham, but was indifferently successful in the house. He died June 18, 1835. Cobbett is also Cobalt-green, a permanent green the author of a Parliamentary History of Cobalt-green, pigment prepared by vice to Young Men and Women; Village precipitating a mixture of the sulphates Sermons, etc. He wrote in a pure and vigorous English style, and his writings contain much useful information, and show a sound judgment wherever the matter did not go beyond his strong miles northeast of Guatemala. It is the passing of the Reform Bill in 1832 he was returned as member for Oldham, but was indifferently successful in the house. He died June 18, 1835. Cobbett is also vice to Young Men and Women; Village vice to Young Men and Women; Village ontain much useful information, and show a sound judgment wherever the matter did not go beyond his strong miles northeast of Guatemala. It is the passing of the Reform Bill in 1832 he was returned as member for Oldham, but was indifferently successful in the house. He died June 18, 1835. Cobbett is also vice to Young Men and Women; Village vice to Young Men and Women; village ontain much useful information, and show a sound judgment wherever the matter did not go beyond his strong miles northeast of Guatemala. It is the

uncle to his own resources, along with for the second time, a place in the some relatives he started a cotton manusovernment, but again preferred to keep factory in Manchester, which in a few his independent position. He refused years was very successful. His first also a baronetcy and several other dignipolitical writing was a pamphlet on Engties. His last great work was the comland, Ireland and America, which was mercial treaty which he was the means followed by another on Russia. In both of bringing about between Britain and of these he gave clear utterance to the France in 1860. During his later years political views to which he continued he lived a great deal in retirement. political writing was a followed by another on Russia. In both of these he gave clear utterance to the political views to which he continued through his life rigidly to adhere, advocating non-intervention in the disputes of other nations, and maintaining it to be the only proper object of the foreign policy of England to increase and political principles with which Mr. Cobden's name is associated. The Cobden Club has distributed a vast number of the conditional principles with which Mr. Cobden's name is associated. The Cobden Club has distributed a vast number of these conditions and political principles with which Mr. Cobden's name is associated. The Cobden Club has distributed a vast number of these conditions are provided to the conditions of these conditions are provided to the conditions of the conditions



Richard Cobden.

strengthen her connections with foreign countries in the way of trade and peace-ful intercourse. Having joined the Anti-Corn-Law League, formed in 1838, it was Corn-Law League, formed in 1838, it was chiefly the extraordinary activity of Cobden, together with Bright and other zealous fellow-workers, which won victory for the movement. In 1841 Cobden entered Parliament as member for Stockport, and after several years of unwearied efforts at last induced Sir Robert Peel efforts at last induced Sir Robert Peel, then prime minister, to bring in a bill for the repeal of the corn laws, a measure which became law in 1846. Next year he was chosen member for the W. Riding of York, a constituency which he represented for ten years. His business, once highly prosperous, had suffered while he devoted himself to the agitation, and as a good harbor, and an increasing trade. a compensation for the loss he had thus sustained a national subscription was made, and a sum of about \$350,000 presented to him. Cobden continued his labors as an advocate of parliamentary reform, economy, and retrenchment, and a policy of non-intervention, in all of which he found a firm and ready ally in Bright, both being strong opponents of the horizontal results. The sum of the horizontal results are considered which he found a firm and ready ally in Bright, both being strong opponents of the Crimean war. In 1859 he was chosen member for Rochdale, and was offered, then prime minister, to bring in a bill for

of books and pamphlets.

Cobija (kō-bē'hā), or Puerto La Mar, a seaport formerly of Bolivia, now in the territory of Antofagasta, Chile. Its population has fallen off from about 4000 to less than 500.

Coble, or COBBLE (kob'l), a low, flat-floored boat with a square stern, used in salmon-fishery.

Coblentz (kō'blentz; anciently Confuentes, from its situation at the confluence of the Rhine and Moselle), a fortified town of Germany, capital of Rhenish Prussia, finely situated capital of Rhenish Prussia, finely situated on the left bank of the Rhine in the angle between it and the Moselle, and connected by a pontoon-bridge over the Rhine with the fortress of Ehrenbreitstein, this, along with its other fortifications, rendering it one of the strongest places in Germany, and capable of accommodating 100,000 men. The new part of the town is well built with broad streets and fine squares. The palace of the Elector of Treves is now a Prussian royal residence. Its industries embrace cigars, machinery, champagne-wines. cigars, machinery, champagne-wines, pianos, and it has an important trade in Rhine and Moselle wines. Pop. 53,902.

the veins is said to be a remedy. In India thousands of natives lose their lives yearly through cobra bites. Its food consists of small reptiles, birds, frogs, fishes (being an excellent swimmer), etc. Its great enemy is the ichneumon. It is one of the snakes that the snake-charmers

of the snakes that the snake-charmers perform tricks with.

Coburg (k ô' b ô rg), a town of Germany, capital of the duchy of Saxe-Coburg-Gotha, finely situated on the left bank of the Its, 106 miles E. by N. of Frankfort-on-the-Main. The principal buildings are the palace of the Duke of Saxe-Coburg-Gotha, and on an eminence overhanging the town the ancient castle of the dukes of Coburg, in which are still shown the rooms occupied which are still shown the rooms occupied by Luther during his concealment here, with his bedstead and pulpit. The Duke with his pedstead and pulpit. The Duke of Edinburgh has a residence here. The Coburgh has various manufactures, also cranial buckler and body. It extensive breweries. Pop. (1905) 22,489. Cephalaspis in having its bac Coburg, cotton, or worsted and silk, twilled on one side, for ladies' dresses, intended as a substitute for merino.

Coburge Parimental a parimental as parimental and side of the course of climbers.

Coburg Peninsula, a peninsula on the north coast of Australia in the Northern Territory of Southern Australia.

a stimulating anæsthetic, and is chewed wings, and are destitute of any obvious by the inhabitants of countries on the means of suction; the females, on the Pacific side of South America, mixed contrary, are of a rounded or oval form, with finely-powdered chalk. It has effects about an eighth of an inch in diameter, somewhat similar to those of opium. A have no wings, but possess a beak or small quantity of it enables a person to bear up against fatigue even when receiving less food than usual; and it preceiving less food than usual; and it pre- a certain period of their life the females vents the difficulty of respiration ex- attach themselves to the plant or tree perienced in climbing high mountains, which they inhabit, and remain thereon Used in excess it brings on various dis- immovable during the rest of their exist-orders, and the desire for it increases so ence. In this situation they are impregnuch with indulgence that a confirmed nated by the male; after which their coca-chewer is said never to have been body increases considerably, in many reclaimed. Coca-leaves depend for their species losing its original form and as-

is given from the remarkable manner in influence on a crystallizable alkaloid which it spreads out its skin on the sides called cocaine (CteH1sNO4), which, besides of the neck and head when disturbed or having effects similar to the leaf, posirritated, raising the anterior part of its sesses valuable ansesthetic properties. body so as to appear to stand erect, and expanding its hood. So exceedingly poisex points are sonous is its bite that in numerous instances death has followed within a few chloride, it produces complete local anreminutes, and under ordinary circumthesia, lasting for about ten minutes. It stances a few hours is the longest term is much used in operations on the eyes, where prompt measures have not been nose, tonsils and throat, etc. It is also taken. But indeed recovery rarely takes administered hypodermically for such miplace, though injection of potash into nor operations as the amputation of a the veins is said to be a remedy. In finger, etc. The stimulating effect which In finger, etc. The stimulating effect which the drug produces on the brain tends to the formation of the cocaine habit, which completely undermines the nervous system. Stringent laws governing the sale of cocaine have been enacted.

Cocaine (kō-kān', kō'ka-in). See Coca.

Coccinella (kok-si-nel'a), the lady-bird genus of insects. See Ladybird.

Coccolite (kok'ō-līt). See Augite.

Cocco (ko'kō) Root, the name for the corms of several plants of the genus Colocasia (order Araceæ), used as food in tropical America.

Coccosteus (kok-os'te-us), a genus of fossil fishes of the Old Red Sandstone, having small berry-like tubercles studding the plates of their cranial buckler and body. It differs from Cephalaspis in having its back and belly

Cocculus (kok'ū-lus), a genus of East Indian menispermaceous plants, consisting of climbers with heart-shaped leaves and small flowers. The species are generally powerful bitter febrifuges. The fruit of the Cocculus Indicus forms a considerable article of commerce, and is sometimes added to malt liquors to give history

Cobweb (kob'web), the web or netcatch their prey.

Coca ((kō'ka), Erythroxylon Coca, a
South American plant, nat.
South American plant, nat.

Coca (kō'ka), Erythroxylon Coca, a
south American plant, nat.

Coca (kō'ka), Erythroxylon Coca, a
south American plant, nat.

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Coca (kō'ka), Erythroxylon Coca, a
south Erythroxylon Coc

suming that of a gall, and, after depositing the eggs, drying up and forming a ment. Area, 1361 sq. miles; pop. (1901), habitation for the young. Some of these 815,200, of whom about 150,000 were insects are troublesome in gardens, plan-Christians, partly belonging to the tations, and hot-houses, while others are Jacobite and Nestorian churches estabolized great value. For example, kermes, lished here in early times. The capital cochineal, lac-lake, lac-dye, and gum-lac is Ernakolam. Formerly Cochin was the are either the perfect insects dried or capital, a town on the Travancore the secretions which they form. Kermes estuary, within half a mile of the British consist of the dried females of Cocus town of Cochin (which see).

**ilicis*, found in great abundance upon a species of oak (Quercus cocciféra), a native of the Mediterranean basin, and of the peninsula of Southeastern Asia gathered before the eggs are hatched. It and formerly regarded as comprising was known as a dyestuff in the earliest the whole of Anam (which see) and times, but has partly fallen into disuse Lower or French Cochin. The since the introduction of cochineal. Latter belonged to Anam till, in 1863, a Cochineal consists of the bodies of the portion of it was finally ceded to France females of the Coccus cacti, a native of Mexico, which feeds on various species of cactus, particularly on one called nopal (Opuntia cochiniliféra). See Cochineal, Lac, and China Was. Spherical bacteria are also called cocci.

Coccyx (kok'siks), in anatomy, an appeal and cantons. The north-results are also called cocci.

Coccyx (kok'siks), in anatomy, an appeal and cantons. The north-results are also called of small bones ern and eastern parts are hilly better the profit of the p

a population of 2,000,020.
organized in departments, prefectures, subprefectures and cantons. The north-Coccyx assemblage of small constituting the lower extremity of the backbone, consisting of the last four vertebræ, in a rudimentary form, coossified. It is triangular in shape, and much rice is grown. In the more elevated convexo-concave. It is the homologue in man of the tail in animals.

Cochabamba (koch-a-bam'ba), a districts are grown tobacco, sugar-cane, maize, indigo and betel. Among the other products are tea, gums, cocoanut oil, silk, spices. The climate is hot and unsuited for Europeans. Industrial arts are as yet limited among the natives.

The sea, with a But they excel in the use of wood, of which their temples, pagodas, and tombs almost COCCYX (kok'siks), in anatomy, an subprefectures and cantons. The north-assemblage of small bones ern and eastern parts are hilly, but constituting the lower extremity of the the rest of the territory consists albackbone, consisting of the last four most entirely of well-watered, low, alluvertebrse, in a rudimentary form, co-vial land. In the low and wet grounds abamba, situated in a fertile valley 8400 are abamba, situated in a fertile valley 8400 are deet above the level of the sea, with a But they excel in the use of wood, or good trade and considerable manufactures. Pop. 21,886.—The province are built, being ornamented with elabohas an area of 26,810 sq. miles; pop. rate carving. They live in villages adjacent to the rivers, which form almost the only means of communication. The conty roads at present existing are those Cochin (kö'chin), a seaport of Hindustan, Malabar district, Madras Presidency, on a small island; a picturesque place with many quaint old principal towns; a railway of 42 miles Dutch buildings. Its harbor, although sometimes inaccessible during the s. w. cipal export is rice, mainly to China; monsoon, is the best on this coast. Its cotton and slik are also exported. The trade, however, has for some years been declining. Cochin was one of the first places in India visited by Europeans. In trade is chiefly in the hands of the 1502 Vasco da Gama established a factort; he also died here in 1524. In 1663 inhabitants are Anamese. In their the Dutch took the place, in 1795 the British. Pop. (1901) 19,274. See also next article. Cochin, a small native state of India, customs they much resemble the Chinese. on the s. w. or Malabar coast, —UPPER CCCHIN-CHINA is the name connected with the Presidency of Madras, sometimes given to the narrow strip of intersected by numerous rapid streams land on the east coast of Anam between descending from the Western Ghauts, and the mountains and the sea extending from having several shallow lakes or back- Tonquin on the north to Champa on the waters along the coast. Chief products: south, or from about 18° to 11° N. See timber and rice. The rajah has to pay Ansm.

Cochineal Cockchafer

Cochineal (koch'in-ël), a dyestuff though in some genera the plumage is consisting of the dried dark. They are found especially in the bodies of the females of a species of in Eastern Archipelago and Australia. They sect, the Coccus cacti (see Coccus), a nalive on roots, fruits, grain, insects, etc., tive of the warmer part of America, parand usually congregate in flocks. These tive of the warmer parts of America, par-ticularly Mexico, and found living on a species of cactus called the cochineal-fig. The insects are softly brushed off, and killed by being placed in ovens or dried in the sun, having then the ap-pearance of small berries or seeds. A pound of cochineal contains about 70,000 of them. The finest cochineal is pre-pared in Mexico, where it was first dis-covered, and Guatemala; but Peru, Bra-sil, Algiers, the East and West Indies, and the Canary Islands have also entered and the Canary Islands have also entered into this industry with more or less success. Cochineal produces crimson and scarlet colors, and is used in making carmine and lake.

Cochlea (koklē-a), an important part of the internal ear, so called from its shape, which resembles that of

a snail-shell.

scurvy-grass.

Cochrane, John, born in Palatine, New York, in 1813; died in 1898. He studied law, became interested in politics; and was surveyor of the port of New York, 1853-57. During the Civil War he fought as colonel of the 1st United States Chasseurs. In 1864 belongs to this family.

Leadbeater's cockatoo (P. Leadbeater's), the pink cockatoo, whose crest is barred with crimson, yellow and white. The Kaka of New Zealand (Nestor meridionalis) belongs to this family.

Cockatrice (kok'a-tris), a fabulous monster anciently believed to be hatched from a cock's egg. It is often simply another name for the

Cochrane, LORD. See Dundonald.

tional distinction. National cockades are now to be found over all Europe.

Cockatoo (kok-a-to'), the name of a wit, law and learning common enough number of climbing birds at the old Scots bar. He died in 1854. belonging to the family of the parrots, or Paittacidæ, or regarded as forming a distinct family Plictolophidæ or Cacatuidæ. social history of Scotland. Not less interesting is his life of his friend Lord capable of being raised and lowered at the will of the bird, commonly white, but sometimes yellow, red, or blue; a tail somewhat longer than that of the parret, and square or rounded; long wings; and, for the most part, a white plumage, state, as well as for the injury it does



Leadbeater's Cockatoo (Plictolophus Leadbeaters).

Cochlearia (kok-le-a'ri-a), a genus birds are easily tamed, and when doof cruciferous plants, including the scurvy-grass.

(kok-le-a'ri-a), a genus birds are easily tamed, and when domesticated become very familiar. The
sulphur-crested cockatoo (Plictolophus
galerita) of Australia and Tasmania is a

It is often simply another name for the

Cock. See Fowl.

Cockade (ko-kād'), a plume of cock's Scottish judge, was the son of Archibald Cockburn (ko'burn), Henry Dundas, Lord feathers, with which the Cockburn, one of the barons of the Court Croats in the service of the French in the seventeenth century adorned their caps. A bow of colored ribbons was adopted for admitted a member of the Faculty of the cockade in France, and during the Advocates in 1800. He attached himself French revolution the tricolored cockade to the Liberal party, rose to eminence in the profession, and became, under Earl Grey, solicitor-general, for Scotland. He now to be found over all Europe.

from an egg which the parent deposits in Parsons. a hole about 6 inches deep, which she Cockle digs for the purpose. At the end of digs for the purpose. about three months the insect emerges as a small grub or maggot, and feeds on the roots of vegetables in the vicinity with great voracity. When full grown it is over an inch in length; it makes its way underground with ease, and commits great devastation on grass and corn. In the fourth year the insect appears as a perfect coleopterous insect—a beetle over an inch long, of a black color, with over an inch long, of a black color, with a whitish down. It usually emerges from the ground about the beginning of May, from which circumstance the English name May bug or beetle has been given it. In its perfect state it is very destructive to the leaves of various trees.

Cocker (kok'er), a dog of the spaniel dog, used for raising woodcocks and anipes from their haunts in woods and marshes.

Cocker, Edward, an English engraver and teacher of writing and arithmetic in the seventeenth century, born about 1631. His work,

tury, born about 1631. His work, Cocker's Arithmetic, upon which many succeeding treatises were framed, was published in 1677.

Cockermouth (kok'er-mouth), a constraint, comparison of Cumberland, England, at the mouth of the Cocker, 24 miles S. w. of Carlisle, now giving name to a parl. div. of the county. It has to a parl. div. of the county. It has an old ruined castle, supposed to have been built soon after the conquest. Thread and tweeds are manufactured; and there are coal-mines in the neighborhood. Cockermouth was the birthplace of the poet Wordsworth. Pop. 1911, 5203. Cockfighting, an amusement practised in various countries, first perhaps among the Greeks and Romans. At Athens there were annual cockfights, and among the Romans quails and partridges were also used for this purpose. It was long a favorite sport with the British, and the training, dieting, and breeding of cocks for fighting was the subject of many treatises. It is a favorite sport in the island of Cuba, in the Philippine Islands, and some other localities.

Cock-Lane Ghost, an impudent hoax by which many Londoners were deceived in 1762. consisting in certain knockings heard in the house of a Mr. Parsons, in Cock Lane, Smithfield. Dr. Johnson was the Orthopterous or straight-winged oramong those who believed in the superder, characterized by an oval, elongated,

to vegetation after it has attained its natural character of the manifestations; perfect condition. The common cock-but it was found out that the knockings chafer (Melotontha vulgāris) is hatched were produced by a girl employed by but it was found out that the knockings

Cockle (kok'l), a name for the bivalve molluscs of the genus Cardium, especially Cardium edüle, common on the sandy shores of the ocean, much used as food. The general characteristics are: shells nearly equilateral and equivalvular; hinge with two small teeth, one on each side near the beak, and two larger remote lateral teeth, one on each side; are the property of the propert each side; prominent ribs running from the hinge to the edge of the valve.

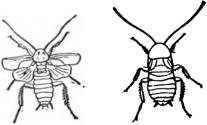
Cock of the Plains (C entrocercus urophasianus), a large North American species of grouse, inhabiting desolate plains in the western States.

Cock of the Rock (Rupicola rantia), South American bird of a rich orange color with a beautiful crest, belonging to the manakin family.

Cock of the Woods. See cailzie. Cockpit (kok'pit), in a man-of-war, the place where the wounded were dressed in battle or at other times,

and where medicines were kept.

Cockroach (kok'rōch; Blatta), a genus of insects belonging to



Cockscomb Cocoanut Oil

for seven or eight days till she finally attaches them to some solid body by means of a gummy fluid. The species are numerous. The Blatta orientalis, or common kitchen cockroach (in England or the seven s land commonly called black beetle), was originally brought from Asia to Europe, troublesome.

Cockscomb (koks'kōm), a name given to flowering plants of various genera. By gardeners it is properly confined to Celosia cristata; but it is popularly applied to Pedicularis or lousewort, Rhinanthus crista-galli or yellow rattle, as also to Erythrina crista-

command of the boat's crew.

Cocoanut (kö'kō-nut), or Coconut, a woody fruit of an oval Cocles. See Horatius.

depressed body, which is smooth on its shape, from 3 or 4 to 6 or 8 inches in superior surface. They have parchment-length, covered with a fibrous husk, and like elytra, and in the female the wings lined internally with a white, firm, and are imperfectly developed. They are noc-furnal in their habits, exceedingly agile, which produces the cocoanut is a palm, and devour provisions of all kinds. Cock-from 60 to 100 feet high. The trunk is roaches, like other orthopterous insects, straight and naked, and surmounted by do not undergo a complete metamorpho-acrown of feather-like leaves. The nuts sign; the leaves and nymphs resemble the hang from the summit of the tree in sis; the larve and nymphs resemble the hang from the summit of the tree in perfect insects, except that they have clusters of a dozen or more together. The merely rudiments of wings. The eggs are external rind of the nuts has a smooth carried below the abdomen of the female surface. This encloses an extremely fibrous substance, of considerable thick-ness, which immediately surrounds the nut. The latter has a thick and hard shell, with three black scars at one end, through one of which the embryo of the future tree pushes its way. This scar future tree pushes its way. This scar may be pierced with a pin; the others are as hard as the rest of the shell. The and thence to America, where it is now are as hard as the rest of the shell. Ine common. The Blatta Americana, or kernel incloses a considerable quantity of American cockroach, grows to be 2 or sweet and watery liquid, of a whitish 3 inches long, including the antennse. color, which has the name of milk. This Throughout the southern portion of North palm is a native of Africa, the East and West India Islands West Indies, and is a west work and South America, and is now grown almost everywhere in tropical countries. Food, clothing, and the means of shelter and protection are all afforded by the cocoanut tree. The kernels are used as food in various modes of dressing, and yield on pressure an oil which is largely imported into various countries. (See *Coccanut Oil.*) When dried before the oil is expressed they are known as copra. The fibrous coat of the nut is Cock's-foot, Cock's-foot Grass, a made into the well-known cocoanut matting; the coarse yarn obtained from (Dactylis glomerata) of a coarse, harsh, it is called coir, which is also used for wiry texture, but capable of growing on cordage. The hard shell of the nut is barren, sandy places, and yielding a polished and made into a cup or other wiry texture, but capable of growing on cordage. The hard shell of the nut is barren, sandy places, and yielding a polished and made into a cup or other valuable food for sheep very early in domestic utensil. The fronds are wrought the spring. It is a native of Europe into baskets, brooms, mats, sacks, and generally, also of Asia and America. many other useful articles; the trunks The name has been given to it because of the resemblance of its three-branched for the construction of houses. By borning to the foot of a fowl of the resemblance of its three-branched for the construction of houses. By bornancle to the foot of a fowl.

Cockspur Thorn, the Cratægul and the Cockspur Thorn, the Cratægul and the called toddy exudes from the wound, and yields by distillation one of the varieties of the spirit called arack. A kind of been cultivated in Britain as a shrubbery of the spirit called arack. A kind of sugar called jaggery is also obtained from the juice by inspissation.

Cockswain (kok'swān; colloquially cock'sn), the officer who which inhabit cocoanut trees and eat into the stems.

Cocoanut Seetle (Batocera rubus).

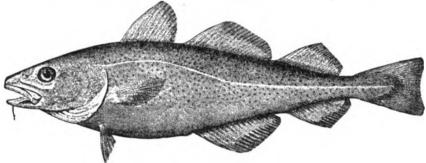
Cocoanut Oil, a solid vegetable fat, largely used in can-

Cocoa-plum, the fruit of Chryso-crustaceous and molluscous animals abun-baldnus Icaco family dant in such situations, and thus attract Rosacese, which is eaten in the West fleets of fishermen. Few members of the Indies. It is about the size of a plum, animal creation are more universally with a sweet and pleasant though somewhat austere pulp.

Cocoon (ko-kön'), the name given to the web or ball spun by cater-pillars before passing into the chrysalis The valuable product thus obtained from the silkworm is well known.

Cocos (kok'os) ISLANDS. See Keeling Islands.

animal creation are more universally serviceable to man than the codfish. Both in its fresh state and when salted and dried it is a substantial and wholesome article of diet; the tongue is considered a delicacy, and the swimming-bladders or sounds, besides being highly nutritious, sounds, besides being highly nutritious, supply, if rightly prepared, an isinglass equal to the best Russian. The oil extracted by heat and pressure from the



Codfish (Gadus morrhua).

purpurea, a tree of the same genus with purpures, a tree of the same genus with mangosteen, used in India to adulterate ghee or fluid butter. It is sometimes mixed with bear's-grease in pomatums.

Cocytus (kō-ki tus; from Greek kō-kuein, to lament), a river of ancient Epirus. Also, among the ancient Greeks, one of the rivers of the

ancient Greeks, one of the rivers of the lower world.

Cod (Gadus), a genus of well-known soft-finned fishes, of the same family as the haddock, whiting, ling, etc., distinguished by the following characters:—A smooth, oblong, or fusiform body, covered with small, soft scales; ventrals attached beneath the throat; gills large, seven-rayed, and opening laterally; a small beard at the tip of the lower jaw; generally two or three dorsal fins, one or two anal, and one distinct lower jaw; generally two or three dorsal in young individuals. It is caught by fins, one or two anal. and one distinct caudal fin. The most interesting species is the common or bank cod (G. morrhua). Though found plentifully on the coasts of other northern regions, as Britain, Scandinavia and Iceland. a stretch of sea near the coast of Newfoundland is the favorite annual resort of coundland is the favorite annual resort of countless multitudes of cod, which visit the Grand Banks to feed upon the individuals. It is caught by findividuals. It is caught by finds and hooks.

Code, CAPE. See Cape Cod.

(kö'da), in music, an adjunct to the close of a composition, for the purpose of enforcing the final stretch of sea near the coast of Newfoundland is the favorite annual resort of countless multitudes of cod, which visit the Grand Banks to feed upon the

Cocum (kö'kum) BUTTER, COCUM-OIL, liver is of great medicinal value, and cona pale, greenish-yellow solid tributes considerably to the high economic
oil obtained from the seeds of Garcinia value of the cod. The cod is enormously liver is of great medicinal value, and contributes considerably to the high economic value of the cod. The cod is enormously prolific, the ovaries of each female containing more than 9,000,000 of eggs; but the numbers are kept down by a host of enemies. The spawning season, on the banks of Newfoundland begins about the month of March and terminates in June; but the regular period of fishing does not commence before April on account of the storms, ice and fogs. The season lasts till the end of June, when the cod commence their migrations. The average length of the common cod is average length of the common cod is about 2½ or 3 feet, and the weight between 30 and 50 lbs., though sometimes cod are caught weighing three times this. The color is a yellowish gray on the back, spotted with yellow and brown; the belly white or red, with golden spots in young individuals. It is caught by lines and hooks.

are the chief codes which have affected the whole of the New Testament, the the laws of Europe: The Theodosian Epistle of Barnabas, and a part of the Code (Codex Theodosianus), a compilable Shepherd of Hermas, discovered in the tion executed in 429 by a commission on monastery of St. Catherine, on Mount behalf of Theodosius the Younger, and Sinai, by Tischendorf, in 1859, and now promptle to a law throughout the contract of th behalf of Theodosius the Younger, and promulgated as law throughout the eastern and western empires. The Justinian Code (*Codes Justinianus*), a code compiled in 528, in the reign of the Emperor Justinian, incorporating all the codes, rescripts, edicts previously in use (see *Civil Laws*). The *Code Napoléon*, or *Code Civil* underthen under the or Code Civil, undertaken under the consulship of Napoleon by the most eminent jurists of France, and published in 1804. The Code Napoleon (under which name other four codes of com-mercial law, criminal law, penal law, and law of procedure, drawn up at the same time, are often included) was a code in the strictest sense, that is, not merely a collection of laws, but a complete and exclusive statement of the law, virtually perseded by a new one in 1824. In the way of revision of existing law an admirable example is that of the Revised Statutes of the State of New York, which started the inauguration of a widespread started the inauguration of a widespread reform in jurisprudence, extending to England, India, Australia, and most of the American States. The principal re-forms were the abolition of the distinc-tion between legal and equitable practice, and the simplification of procedure in general. Congress has a committee engaged in a codification of United States laws.

Codeine (kō-dē'in; Gr. kōdeia, a poppy-head), a crystallizable alkaloid obtained from opium, in which it exists to the amount of 6 or 8 oz. per 100 lbs. It is used to produce sleep and to soothe irritable coughs; and is sometimes the chief remedy in diabetes; dose, and grain and upwards to 1 grain. It is

** grain and upwards to 1 grain. It is a poison in excessive doses.

Codetta (ko-det'a), in music, a short passage which connects one section with another.

Codex (kô'deks), an ancient written book; an important ancient MS., as one of the Scriptures or of some classical writer. A collection of laws was also called codex, as Codex Theodosianus, Codex Justinianus (see Code).—Codex Alexandrinus. See Alexandring Version.—Codex Singiticus. a very ancient and valuable manuscript of the Greek Septuagint version of the Old

Testament (including the Apocrypha), apple with large or medium-sized fruit.

Epistic of Barnapas, and a part of the Shepherd of Hermas, discovered in the monastery of St. Catherine, on Mount Sinai, by Tischendorf, in 1859, and now at St. Petersburg. It is written on parchment in four columns, in early uncial characters, and bears every mark of being of great antiquity perhaps even uncial characters, and bears every mark of being of great antiquity, perhaps even older than the Vatican MS. It is assigned by Tischendorf to the fourth century. The Old Testament is defective, but the New Testament is complete, not a word being wanting, which is the more remarkable inasmuch as it is the only manuscript of the New Testament which is complete, being from this and its early life of the highest value. It has been published in facsimile.—Codew Vaticanus, an ancient Greek MS. of the Old and New Testaments, so called from being contained in the Vatican Library at Rome. It is written on thin vellum, in small uncial characters. The manuscript is assigned to the fourth century, and unamounting to a recasting of the laws of sman uncorners. In this country one of the is assigned to the fourth century, and unmost complete codes which has been til the discovery of the Sinaitic was renacted is that of Louisiana, made after garded as the best manuscript of the Old its cession to the United States and su and New Testaments. The greater part is cession to the United States and the model of the pastoral epistles and the

of Genesis in the Old Testament, and the whole of the pastoral epistles and the Revelation in the New Testament are wanting. A facsimile of it was published in 1868.

Codex Medicus, a publication, of a periodical character, containing a list of therapeutic agents, methods of manufacture, etc. There are several now published, some relating to a specialty in medical science relating to a specialty in medical science and art. The name of the French phar-

macopœia.

Codicil (kod'i-sil), in law, a supplement to a will, to be considered as a part of it, either for the purpose of explaining or altering, or of adding to or subtracting from the test-ator's former disposition. A codicil may not only be written on the same paper or affixed to or folded up with the will, but may be written on a different paper and deposited in a different place. In general the law relating to codicils is the same as that relating to wills, and the same proofs of genuineness must be furnished by signature, and attestation by witnesses. A man may make as many codicils as he pleases, and, if not contradictory, all are equally valid.

Codilla (ko-dil'a), the coarsest part of hemp, which is sorted out by itself; also, the coarsest part of

Cod Liver Oil, an oil extracted from the livers of different kinds of cod-the Gadus morrhua (common cod) being specified in the phar-macopæia—and allied species. The fin-est and palest oil is got from fresh and carefully-cleaned liver, the oil being extracted either in the cold or by a gentle heat. The darker kinds are got at a higher temperature, and often from the livers in a putrefying state. Only the pale oils are used in medicine; the dark oils are too rank and acrid, and they are only used in dressing leather. Cod-liver oil is a somewhat complex sub-stance, but the main ingredients appear to be olein and margarin. Acetic, butyric and phosphoric acids, iodine, bromine and phosphorus are also present, and to these the oil may owe some of its odor. This oil is now a recognized agent in the treatment of rheumatism, gout, scrofula and especially of consumption, being taken internally and containing easily-assimi-

lated nutritive matter.

Codogno (ko-dō'nyō), a town in North Italy, province of Milan, in a fertile district between the

Po and Adda, with a large trade in Parmesan cheese. Pop. 10,033.

Codrus (ko'drus), according to Greek legend the last king of Athens.

Having learned that the enemies of his country would be victorious, according to the declaration of an oracle, if they did not kill the Athenian king, he voluntarily entered their camp, provoked a quarrel and was slain. The grateful Athenians abolished the royal dignity, substituting that of archon, esteeming no one worthy

to be the successor of Codrus.

Cody, WILLIAM FREDERICK, scout and showman, known as 'Buffalo Bill,' born in Scott county, Iowa, in 1845; became a pony express rider and a government scout and guide (1861-65). During the construction of the Kansas Pacific Railroad he contracted to furnish the laborers with meat and killed in eighteen months (1867-68) over 4000 buffaloes. Subsequently he engaged in a great number of Indian fights, and in 1883 produced and toured with his 'Wild West Show.' Author of several books. He died January 10, 1917.

should understand as the coefficient of x, 3a, and as the coefficient of ax, 3.

Codling-moth, a small moth the gineer, born 1641; died 1704. Having on the codling apple.

distinguished himself by his invention of small mortars, called after him cockorns, but more by his eminence as a master of the art of fortification, whence he has been called the Dutch Vauban. He fortified almost all the strong places in Holland.

See Aligarh. Coel.

(sc-len-ter-a'ta: Gr. Cœlenterata koilos, hollow, enteron, an intestine), a subkingdom of animals, including those whose alimentary canal communicates freely with the general cavity of the body ('the somatic cavity'). The body is essentially composed of two layers or membranes, an outer layer or 'ectoderm' and an inner layer or 'endo-No circulatory organs exist, and derm' in most there are no traces of a nervous system. Peculiar stinging organs or 'thread-cells' are usually, if not always, present, and in most cases there is a radiate or starlike arrangement of the organs, which is especially perceptible in the tentacles, which are in most instances placed round the mouth. tinct reproductive organs exist in all, but multiplication also takes place by fission and budding. The Coelenterata are divided into two great sections, the Actinozoa and the Hydrozoa, and include the medusas, corals, sea-anemones, etc. They are nearly all marine animals.

Cœlestin (se-les'tin). See Celestine.

(se'le sir'i-a, that is, 'Hollow Syria'), the Cœle-Syria large valley lying between the Lebanon and Anti-Lebanon mountain ranges in Syria. Near its center are the ruins of Raalbek.

Coethen, (sēn'a-bit). See Anchorite. (coethen, or KÖTHEN (kea'ten), a town of Germany, formerly of Anhalt-Coethen, capital of the duchy of Anhalt-Coethen, now forming part of the duchy of Anhalt, 80 miles s. w. Berlin. The ducal castle is now occupied as a gymnasium and otherwise. Beet-root sugar is a staple article of manufacture and commerce. 22,083.

(kof'ē), is the seed of an ever-green shrub which is culti-Coffee vated in hot climates, and is a native of Abyssinia and of Arabia. This shrub (Cofféa Arabica) is from 15 to 20 feet Coefficient (kō-e-fi'shent), in algebra, of Abyssinia and of Arabia. This shrub a multiplier of a quan- (Cofféa Arabica) is from 15 to 20 feet tity. Thus in the expression 3ar we in height, and belongs to the Rubiacese. The leaves are green, glossy on the upper surface, and the flowers are white and BARON sweet-scented. The fruit is of an oval Coehorn (kö'horn). Menno, Baron sweet-scented. The fruit is of an oval Van, a Dutch military en-shape, about the size of a cherry, and of these contains two cells, and each cell a customed to the Lemenite variety are



a dark-red color when ripe. Each of the produce of India, which those acthese contains two cells, and each cell a customed to the Lemenite variety are single seed, which is the coffee as we see said to consider hardly drinkable. Amerit before it undergoes the process of ican coffee holds in the judgment of all roasting. Great Orientals the very last rank. The Dutch attention is paid were the first to extend the cultivation of to the culture of coffee beyond the countries to which it is coffee in Arabia. native. About 1680 some coffee seeds. The trees are were brought to Java, where they were raised from seed planted and produced fruit. By 1718 the sown in nurseries Dutch planters of Surinam had entered The trees are were prougan to sava, where they were raised from seed sown in nurseries and after wards on the cultivation of coffee with success, planted and produced fruit. By 1/18 the sown in nurseries and ten years after it was introduced moist and shady from that colony by the English into Jasituations, on slop-maica, and by the French into Martinique. The foot of mountained it was not till 1/73 that the planters of the foot of mountained it was not till 1/73 that the planters of the foot of mountained it was not till 1/73 that the planters of the foot of mountained it was not till 1/73 that the planters of the foot of mountained it was not till 1/73 that the planters of the foot of mountained it was not the foot of mountained it was not to the ir roots, the foot of mountained it is maturity cloths are placed under the better, and upon these the laborers shake opened a coffee-house in London. In the trees, and upon these the laborers shake opened a coffee-house in London. In the better of the sun, and, finally winnowed with a coffee house in Paris. In Great Britain sun to dry. The hask is then broken of by large and heavy rollers of wood of root. When the coffee has been thus cleared of its husk it is again dried in the sun, and, finally winnowed with a cleared of its husk it is again dried in the sun, and, finally winnowed with a flar planter of the sun, and, finally winnowed with a flar planter of the sun, and, finally winnowed with a flar planter of the sun, and, finally winnowed with a flar planter of the sun, and, finally winnowed with a flar planter of the sun, and, finally winnowed with a flar planter of the sun, and finally winnowed with a flar planter of the sun, and finally winnowed with a flar planter of the sun, and finally winnowed with a flar planter of the sun, and finally winnowed with a flar planter of the sun, and the produce of one tree; but a tree in great vigor will pro-acrid, and has a disagreeable, burned duce 3 or 4 lbs. The best coffee is incentification of the sun planter of the su and afterwards on the cultivation of coffee with success,

3-7

cipal supply of the United States is depleasantly situated on a hill, crowned by rived from Brazil, which furnishes 75 the remains of an old castle. It is per cent. of the whole import. It is famous for the brandy which bears its known in commerce as 'Rio.' Coffee name, and which is exported to all parts acts as a nervous stimulant, a property which it owes mainly to the alkaloid Cognates (kog'nats), relations by the caffeine (which see). It thus promotes which it owes mainly to the alkaloid Cogn caffeine (which see). It thus promotes cheerfulness and removes languor, and notes.

Coffee-bug, Lecanium coffee, an insect of the Coccus family, very destructive in coffee plantations. Coffer (koffer), in architecture, a ceiling of an ornamental character, and usually enriched with moldings, and having a rose, pomegranate, etc., in the center.

Coffer-dam, a temporary wooden en-closure formed in water in order to obtain a firm and dry foun- belonged.

degris River, 19 miles 8, of Independence. plaintiff is ji It has oil refineries, brick and tile plants, able defense. zinc oxide plant, paper and flour mills, sash and door factories, etc. Both elec-

for burial. Coffins were used by the Coheleth. See Ecclesiastes. ancients mostly to receive the bodies of ancients mostly to receive the bodies of persons of distinction. Among the Romans it was le erly the almost universal custom to consume the bodies of the same material are kept in conwith fire, and deposit the ashes in urns. tact, forming one continuous mass. Its In Egypt coffins seem to have been used in ancient times universally. They were action is seen in a solid mass of matter, in ancient times universally. They were the parts of which cohere with a cerof stone, earthenware, glass, wood, etc. A sort of ancient coffin is known as a action that would tend to separate them. sarcophagus. Coffins among Christians In different bodies it is exerted with were introduced with the custom of burying. (See Burial.) Modern coffins measured by the force necessary to pull them asunder. Cohesion acts at insensible distances, or between particles in

mother's side. See Ag-

also aids digestion; but in some constitutions it induces sleeplessness headache, and nervous tremblings, particularly after over-indulgence.

Coffee-bug. Lecanium coffea, an infamily; in law, judicial or formal notice

bus, Lecanism coffee, an infamily; in law, judicial or formal notice or acknowledgment of a fact.

ructive in coffee plantations.
(kot'fér), in architecture, a sunk panel or compartment in 60 fan ornamental character, and 70 rose, pomegranate, etc., in the rose, pomegranate, etc., in the contain a temporary wooden enclosure formed in water (Tullius Cicero), served to denote the individual (Marcus), and the gens (Tullius or clan to which his family to obtain a firm and dry foun-belonged.

dation for bridges, piers, etc.

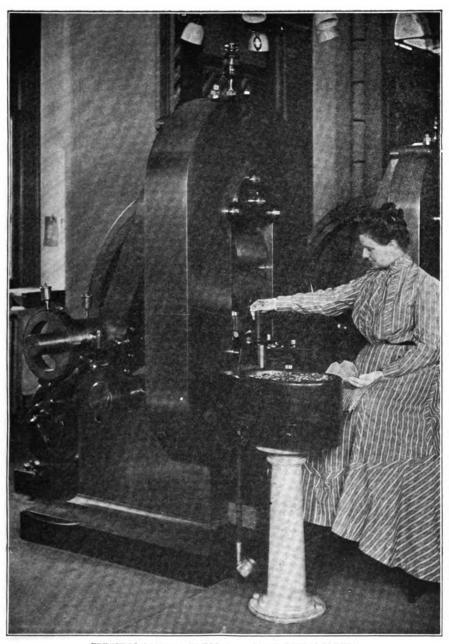
Coffeyville, a city in Montgomery Cognovit (kog-no'vit), in law, is a written confession given by the defendant that the action of the Cognovit (kog-no'vit), in law, is a plaintiff is just, or that he has no avail-

a wheel with cogs or Cog-wheel, teets. tric light and water plants are owned and operated by the city. Pop. 15,815.

Coffin (kof'in), the chest or box in who succeeds to an inheritance that is which a dead body is enclosed to be divided among two or more.

Coffin, SIR ISAAC, admiral, born in sible distances, or between particles in 1759; died in 1839; entered the British the attraction of gravitation. It unites navy when 14 years old under Sir John particles into a single mass, and that Montague, becoming commander in 1782. without producing any change of propouring the Revolution be remained loyal erties, and is thus distinguished from During the Revolution he remained loyal erties, and is thus distinguished from to the mother country. He founded the adhesion, which takes place between famous Coffin School, Nantucket, Mass., different masses or substances: and to be a perpetual tree of knowledge in from chemical attraction or affinity. This sterile spot.' In January. 1899, the foundation was valued at \$50,000, and it together and produces a new substance, was decided to allow an emergency fund to accumulate.

Cognac (kon-yāk). a town in France, dep. Charente, and near the river Charente, 22 miles w. Angoulème,



ELECTRIC COINING PRESS, U. S. MINT, PHILADELPHIA

Woman feeding planchets, or coin blanks, to brass tubes from the bottom of which they are carried to the steel dies which form the coins.

Cohesion Figures, a class of figures by the attraction of liquids for other liquids or solids with which they are in contact, and divided into surface, submersion, breath, and electric cohesion figures. Thus a drop of an independent liquid, as oil or alcohol, will spread ment establishment called a mint. It itself out on the surface of water always is one of the prerogatives of the supreme in a definite figure, but differing with power in all states, and counterfeiting each fluid dropped on the water. Breath of the liquid to be examined on a slip of the liquid to be examined on a slip of the liquid to be examined on a slip of the liquid takes a distinct characteristic Department in 1873. It has charge of shape. Electric cohesion figures are makes assays of precious metals for primary metals for primary makes assays of precious metals for primary of mica, and breathing on it, when each fluid takes a distinct characteristic shape. Electric cohesion figures are produced by electrifying drops of various liquids placed on a plate of

Cohobation (kō-hō-bā'shun), the repeated distillation of the same liquid from the same materials.

cohoes (ko-hōz'), a city of Albany County, New York, on the west bank of the Hudson River, at the mouth of the Mohawk, with great waterpower derived from the Mohawk falls.

There are large cotton and other mills. Pop. 24,709.

Cohort (ko'hort). See Legion.

miles. It is fertile, producing sugar, cotton, rice, and tobacco; and well watered by several rivers.

Coinage (koin-aj), the system of coins used in a country. The metallic coinage of the United States consists at present of gold double-eagles, eagles, half-eagles, and quarter-eagles; silver dollars, half dollars, quarter dollars and dimes; the nickel five-cent piece and

makes assays of precious metals for private owners. The process of converting the precious metals into coins is an interesting one. The rolling machines through which the ingots are passed are adjustable, the space between the rollers being governed by the operator. About two hundred ingots are run through per two hundred ingots are run through per hour on each pair of rollers. When the rolling is completed the strip of metal is about six feet long. As it is impossible to roll perfectly true it is necessary to 'draw' these strips, after being softened by annealing. The drawing benches resemble long tables, with Cohune Oil (ko-hön'), a product of the kernel of Attalēa which is an iron box secured to the funifēra, a palm-tree found in S. America. It resembles cocoanut oil, but is more oleaginous, burning, it is said, twice sas long.

Coimbatore (ko-im-ba-tōr'), a town of Hindustan, Madras Presidency, capital of district to which it gives name, situated on the river ting machines, each of which will cut Noyil, with wide streets, abundant water, and a healthy climate. Pop. 53,080.—
The district has an area of 7860 square miles. It is fertile, producing sugar, of planchets resemble long tables, with subscible, a bench on either side, at one end of which with cathering and iron box secured to the table. In this are fastened two perpendicular steel cylinders. These are at the drawn between the cylinders, which reduces the whole to an equal thickness. These strips are now taken to the cutting machines, each of which will cut Noyil, with wide streets, abundant water, and a healthy climate. Pop. 53,080.—
The district has an area of 7860 square from a strip worth \$1100 about \$800 miles. It is fertile, producing sugar, of planchets will be cut. These are then cotton, rice, and tobacco; and well removed to the adjusting room, where they are adjusted. After inspection they are weighed on very accurate scales. If a planchet is too heavy, but near the weight, it is filed off at the edges; if too heavy for filing, it is thrown aside with the light ones to be remelted. The planchets, after being adjusted, are taken to the coining and milling rooms, and are passed through the milling machine. and dimes; the nickel five-cent piece and to the coining and milling rooms, and the bronze cent. Under the first coinage are passed through the milling machine. act of 1792 the gold eagle weighed 270
grs., 916 2/3 fine. It was reduced in weight to 258 grs. in 1834, and the fine-ness was changed to 900. The early half-eagle weighed 135 grs., but now weighs 129 grs., 900 fine; the quarter-eagle, 64.5 grs. The silver dollar of 1792 weighed 416 grs., but is now 412½ grs., 900 fine; the quarter-eagle for half-dollar, 192.9 grs.; the quarter-is 120. The massive but delicate coindollar, 96.45 grs.; the dime, 38.58 grs. a minute. These presses do their work wanted without smoke and flame as in in a perfect manner. After being smelting. The retort or by-product oven stamped the coins are taken to the coin- has been recently greatly developed so as er's room. The light and heavy coins to eliminate waste, the yield of coke averare kept separate in coining, and when aging 75 per cent, the weight of coal used, delivered to the treasurer they are mixed while in the 'beehive' oven the average is in such proportions as to give him full only 65 per cent. Sometimes two kinds of weight in every delivery. By law, the coal are mixed to get a coking combination, deviation from the standard weight, in delivering to him, must not exceed three pennyweights in one thousand double Norfolkshire gentleman and was born in

in coarse brushes, for stuffing purposes, etc.

Coire (kwär), or Chub (hör), the capital of the Swiss canton of the Grisons, on the rivers Plessur and Rhine. It is irregularly built, and possesses many houses in the ancient style of architecture. Not far from Coire the Bhine begins to be provided. Coire the Rhine begins to be navigable for small vessels. Pop. 11,718.

Coix, a genus of grasses. See Job's Tears.

Coke (kök), the carbonaceous residue of coal which has been heated in an oven or retort, or in any way by which little air is admitted, until all volatile matter has been expelled. The simplest method of producing coke of Essex and Sir Walter Raleigh, which is based on the preparation of wood Coke conducted with great rancour and charcoal, the coal being arranged in asperity. In 1613 he became Chief-jusheaps which are smothered with clay tice of the Court of King's Bench; but recorded that each then get on fire angle his rough temper and staunch support of

delivering to him, must not exceed three pennyweights in one thousand double agles. The coinage of the United 1551. After finishing his education at States mints since the organization of the government has amounted to nearly the foliage he went to London, and entered the Inner Temple. His reputation and practice rapidly increased. He was chosen recorder of the cities of Norwich and of Coventry, knight of the shire of his county, and, in spite of the rivalship of Bacon, attorney-general. As such he conducted the prosecutions for the crown in all great state cases, notably those its lightness, strength, and elasticity, is preferable in many respects to ropes of hemp. Mats and matting are now largely made of coir, which is also used in coarse brushes, for stuffing purposes,



or coal-dust, and then set on fire, suffi- his rough temper and staunch support of cient air being admitted to keep the constitutional liberties brought him into mass at the proper temperature for de-disfavor with King James and his courcomposition without wasting the coke. tiers. In 1621 he was committed to the After the volatile portions are got rid Tower, and soon after expelled from the of, the heap is allowed to cool, or is exprivy-council. In 1628 he was chosen tinguished with water, and the coke is member for Buckinghamshire, and greatly of, the heap is allowed to cool, or is extinguished with water, and the coke is member for Buckinghamshire, and greatly then ready. Methods of heating the coal in close or open ovens until the gase-of the ready of the commons, and by ous and fluid products are driven off are also commonly used. Gas-coke is that which remains in the retorts after of his public acts. On the dissolution of the gas has been given off. Good oven-coke has an iron-gray color. submetallic Buckinghamshire, where he died. Sepluster, is hard, and somewhat vesicular; tember, 1634. His principal works are but gas-coke has rather a slagged and Reports, from 1600 to 1615: Institutes cindery look, and is more porous. Coke of the Laws of England, in four parts: contains about 90 per cent. of carbon, the first of which contains the celebrated and is used where a strong heat is

celebrated French minister of finances, born at Rheims in 1619. After serving in various subordinate despartments Colbert was made intendant, and at length comptroller-general of the finances. His task was a difficult one. He found disorder and corruption everywhere. The state was the prey of the farmer-general, and at the same time the river Colne; well built and amply maintained only by their aid. The people were obliged to pay 90,000,000 livres of taxes, of which the king received be river Colne; well built and amply scarcely 35,000,000, the revenues were anticipated for two years, and the treasury empty. Colbert at once commanded a system of stringent reforms, abolishing useless offices, retracting burdensome privileges, diminishing salaries, and distributing and collecting the taxes by improved methods till he had reduced them almost to one-half. To his talents, activity, and enlarged views the development and rapid progress of industry and commerce in France were largely due. He constructed the Canal of Languedoc; declared Marseilles and Dunkirk freeports; granted premiums on goods exported and imported; regulated the tolls; established insurance offices; made uniform laws for the regulation of commerce, labored to render the pursuit of Colchicnem (kol'chi-kum), a genus of

('Coke upon Littleton'); A Treatise of Bail and Mainprise, Complete Copytological and Mainprise, Copytological Andread and Mainprise, Copy

Colberg (kol'berg), or Kolberg, and in public exhibitions astounded Prussian fortified seaport in learned mathematicians by the rapidity Pomerania, on the river Persante, I mile and accuracy of his processes, but the from the sea, with a good shipping trade and well-frequented baths. Formerly a acting as a teacher and itinerant regular fortress, it has often been held preacher, he was latterly professor of against strong armies. Pop. 20,200.

Colbert (kol-bār), Jean Baptiste, a mont. Others besides him have possessed finances, born at Rheims in 1619. cates powers in the brain little underafter serving in various subordinate destood.

ported and imported; regulated the tolls; and rheumatism. It acts as an emetic, established insurance offices; made uniduretic, and cholagogue cathartic, and in form laws for the regulation of comparce, labored to render the pursuit of large doses as a narcotico-acrid poison. The following compared in it. The French colonies in case, allied to the lilies. The Colonicum sutumnale, or meadow saffron, is a bulb-signs of life; new colonies were established in Cayenne and Madagascar and support the colonicum case, allied to the lilies. The Colonicum sutumnale, or meadow saffron, is a bulb-signs of life; new colonies were established in Cayenne and Madagascar and contents. Canada, Martinique, etc., showed new autumnate, or meadow saffron, is a bulbsigns of life; new colonies were established in Cayenne and Madagascar, and which grows in various parts of Europe.
to support these Colbert created a considerable naval force. Under the protection and in the house of the minister brown skin, there rises in the early
(1663) the Academy of Inscriptions was autumn a tuft of flowers having much
founded. Three years afterwards he the appearance of crocuses, flesh-colored,
founded the Academy of Sciences, and white, or even variegated. They soon
in 1671 the Academy of Architecture.

He enlarged the Royal Library and the succeeding spring, when some broad

rheumatism. See Colchicine.

Colchis (kol'kis), the ancient name of a region at the eastern extremity of the Black Sea, resting on the Caucasus, famous in Greek mythology as the destination of the Argonauts, and the native country of Medea.

Colcothar (kol'kō-thar), an impure brownish-red oxide of iron, which forms a durable color, but is most used in polishing glass and metals.

metals.

Metals.

Cold, the absence of sensible heat, especially such a want of heat as causes some discomfort or uneasiness. The temperature in which man and other animals live is generally below the natural heat of the body, but this is easily kept up in ordinary cases by meaning the food token in and discated. easily kept up in ordinary cases by means of the food taken in and digested. A high degree of cold, however, produces bodily depression, and is a frequent source of disease, or even of death. For the ailment called a cold, see Catarrh.

Cold-blooded Animals, a term applied to those animals, such as reptiles, the temperature of whose blood ranges from the freezing-point, or near it, to 90° Fahr., in accordance with that of the surrounding medium.

Cold Cream, is a white, semisolid, unctuous ointment for dermal application to soothe irritated, excoriated, roughened, or abraded skin and softening hard, harsh, or dry skin. It is composed of spermaceti, expressed oil of olives, white wax, oil of rose, sodium borate and water. The first three interesticate are matted together carefully ingredients are melted together carefully by the aid of gentle heat, the oil of rose and water are made into rosewater, and with the aid of the sodium borate the two liquids are mixed together and there in 1837. He became professor of stirred until cold. With it may be incorporated medicinal and coloring substances.

Cold Storage, a method of preservence and the sanskrit and his essays on the sanskrit and h two liquids are mixed together and stirred until cold. With it may be incor-porated medicinal and coloring substances.

leaves are thrown up by each corm along market day can be kept unspoiled for with a triangular oblong seed-vessel, another. In transporting perishable mathematically and poisonous, and terial by ship or car the same process cattle are injured by eating it, but it is used. Meast thus kept need to be included an expectation of the same process cattle are injured by eating it, but it is used. Meast thus kept need to be yields a medicine valuable in gout and used quickly after being thawed, since rheumatism. See Colchicine.

Colchis (kol'kis), the ancient name of inal state, and in some cases prove injuri-

ous from putrefactive changes.

Coldstream, a village of Scotland in Berwickshire, on the Tweed. When General Monk quartered here in 1659-60 he raised an infantry regiment called the Coldstream Guards. Coldwater (kold'wa-ter), a city, capital of Branch Co., Michigan, 55 miles w. of Adrian. Has manu-

factures of leather, furniture, cement, etc., and a State school for orphans. Pop. 5945.

Cold Wave, the name given in the United States to spells of severe depression of temperature, as that of hot wave is given to the opposite condition. Cold waves are due to persistent winds from the northwest, which spread over the country the chill

which spread over the country the chill conditions of the great plains and mountain ranges of Western Canada.

Cole, Thomas, a landscape painter. He was born in England in 1801, but was taken quite young to America, where he died in 1848. Among his works are the Voyage of Life, Course of Empire, Hunter's Return, Views in the White Mountains, etc.

Cole, TIMOTHY, an American wood-en-Cole, TIMOTHY, an American wood-engraver, born in London, England, in 1852; came to America with his parents in 1857. He entered the employment of the Century Magazine (then Scribner's) in 1875, and in 1883 went to Europe, beginning his remarkable series of Old Masters. These represent the work of many years and include Italian, Dutch, Flemish, English, Spanish, Erench and American masters. French and American masters.

Colebrooke (köl'bruk), HENBY THOMAS, an Oriental scholar, born at London in 1765; died there in 1837. He became professor of

Cape Town. But the decisions of the privy-council and Court of Chancery were in his favor, and he continued to officiate as bishop. He died in 1883.

officiate as bishop. He died in 1883.

Coleoptera (ko-lē-op'te-ra; Greek koleos, a sheath, and pteron, a wing), an order of insects, commonly known as beetles. They have four wings, of



One of the Coleoptera (Cicindela campestria) a, Head. b, Thorax. c, Abdomen. d d, Elytra. e, Wings. ff, Antenna. which the two superior (elytra) are not suited to flight, but form a covering and protection to the two inferior, and are of a hard and horny or parchment-like nature. The inferior wings, when not in use, are folded

transversely under the superior. The coleoptera undergo a perfect metamorphosis. The larva generally resembles a short, thick worm with six legs and a scaly head and mouth.

Coleraine (köl-rān'), a town of Ireland, county of London-darry on both sides of the river Rannelland.

Coleraine (köl-rān'), a town of Ireland, county of London-derry, on both sides of the river Bann, 47 miles N. W. of Belfast. Its trade, chiefly in linen, agricultural produce and provisions, is considerable. There are extensive salmon fisheries. Pop. about 7000.

Coleridge (köl'rij), Habtley, eldest son of Samuel Coleridge, son of Samuel Coleridge Samuel Coleridge, son of Samuel Coleridge Samuel Coleridge

young Coleridge took little interest in the ordinary sports of childhood, and was noted for a dreamy, abstracted manner, though he made considerable progress in classical studies, and was known even at that early age as a deknown even at that early age as a devourer of metaphysical and theological works. From Christ's Church he went with a scholarship to Jesus College, Cambridge, where he remained for two years, but without achieving much distinction. At this time, too, his ultraradical and rationalistic opinions made the idea of academic preferment hopeless, and perhaps it was partly to escape the difficulties and perplexities gathering about his future that Coleridge cape the dimculties and perpextues gathering about his future that Coleridge suddenly quitted Cambridge and enlisted in the 15th Dragoons. Rescued by his friends from this position, he took up his residence at Bristol with two congenial spirits, Robert Southey, who had just been obliged to quit Oxford for his Unitediate policious and Levelle events. Unitarian opinions, and Lovell, a young Quaker. The three conceived a project of emigrating to America, and establishing a pantisocracy, as they termed it, or community in which all should be equal, on the banks of the Susquehanna. This on the banks of the Susquenaina. This scheme, however, never became anything more than a theory, and was finally disposed of when, in 1785, the three friends married three sisters, the Misses Fricket of Bristol. Coleridge about this time started a periodical, the Watchman, which did not live beyond the ninth number. In 1796 he took a cottage at Nether Stowey, in Somersetshire, where soothed and supported by the companionship of Wordsworth, who came to reside at Allfoxden, he wrote much of his best poetry, in particular the Ancient Mariner, and the first part of Christabel. While residing at Nether Stowey he used to officiate in a Unitarian chapel at Taunton, and in 1798 received an invitation to take the charge of a congregation of this denomination at Shrewsbury, where, however, he did nothing further than preach the probation sermon. An annuity bestowed on him by scheme, however, never became anything

Highgate, London. Here he passed the rest of his days, holding weekly conversaziones in which he poured h.mself forth in eloquent monologues. His views on religious and political subjects had become mainly orthodox and conservative, and a great work on the Logos, which should reconcile reason and faith, was one of the dreams of his later years. But Coleridge had long been incapable of concentrating his energies on anything, and of the many years he spent in the leisure and quietness of Highgate nothing remains but the Table Talk and the fragmentary notes and criticism gathered mentary notes and criticism gathered together, and edited by his nephew. He died July 25, 1834. The dreamy and transcendental character of Coleridge's poetry eminently exhibits the man. In his best moments he has a fine sublimity of thought and expression not surpassed by Milton; but he is often turgid and verbose. As a critic, especially of Shake-spere, Coleridge's work is of the highest spere, Coleridge's work is of the niguestrank, combining a comprehensive grasp of large critical principles and a singularly subtle insight into details. Coleridge's poetical works include The Ancient Mariner, Christabel (incomplete), Remorse, a tragedy, Kubla Khan, a translation of Schiller's Wallenstein, etc.; translation of Schiller's Wallenstein, etc.; his prose works, Biographia Literaria, The Friend, The Statesman's Manual, Aids to Reflection, On the Constitution of Church and State, etc.

Coleridge-Taylor, SAMUEL, a musical composer of Anglo-African descent, born in London in 1875; died in 1912. He studied at the Royal College of Music, and soon began

1875; died in 1912. He studied at the Royal College of Music, and soon began his brief but brilliant career. His works include Scenes from the Song of Hiawa-tha, The Blind Girl of Castel Cuille, Meg Blane, The Atonement, and Kubla Khan. He also composed incidental music for several of Stephen Phillips' dramas. He was the first negro to

dramas. He was the first negro to achieve fame as a creative musician.

Coleseed (köl'sēd), a name for a variety of cabbage (Brassica Napus) and its seed, which is made into oil-cake for feeding cattle.

Colet (kol'et), John, an eminent divine, dean of St. Paul's, and founder of St. Paul's School, London, born in 1466; died in 1519.

Colfor (kol'faks). SCHUYLER, states-

Colfax (kol'faks), SCHUYLER, states-man, born at New York in 1823; died in 1885. About 1845 he established at South Bend, Indiana, a weekly paper, the St. Joseph Valley Register, an

England, and after ten years of desultory organ of the Whig party, which he edited literary work, took refuge from the world for many years. He was elected to Conin the house of his friend Mr. Gillman at gress in 1854 and was at three different llighgate, London. Here he passed the times chosen Speaker of the House. In 1868 he received the Republican nomination for the vice-presidency and was elected with President Grant. He served one term.

Colic (kol'ik; from colon, a portion of the large intestine), a painful disorder of the bowels, usually of a apasmodic character, unaccompanied by diarrhœa, and presenting itself in various forms. When the pain is accompanied with a vomiting of bile or with obstinate costiveness it is called a bilious colic; if with windy distension, it takes the name of flatulent or windy colic; if with heat and inflammation, it takes the name of inflammatory colic, or enteritis. There are many other vari-

takes the name of inflammatory colic, or enteritis. There are many other varieties of this complaint, some of which are peculiar to certain occupations or districts, as the painters' colic (see Lead Poisoning), the Devonshire colic.

Coligny (kol-in-ye), Gaspard Der, a renowned Huguenot chief of France, born in 1517, distinguished himself under Francis I and Henry II, who made him in 1552 Admiral of France. After the death of Henry II Coligny took the Protestant side in the religious strifes of the time, and became the head of the Huguenot party. He was generally unfortunate in the battles he fought, but speedily repaired his defeats by prubut speedily repaired his defeats by prudence and good management. When peace was made Coligny was received with apparent favor at court. But this was only a blind; and on the night of St. Bartholomew's (Aug. 24, 1572) St. Bartholomew's (Aug. 24, 1572) Coligny was basely slaughtered. and his corpse given up to the outrages of the mob. Colima (kō-lē'mā), a town of Mexico, capital of the state of same name, situated in a fertile plain encircled by hills above which rises the lofty volcano of Colima. Pop. 20,698. On the coast about 30 miles s. s. w. of the city is the post Puents de Colima. the city is the port, Puerto de Colima, or Manzanillo. The state has an area of 2272 miles; pop. 65.115.

Coliseum (kol-i-se'um). See Colosse'um.

Coll, an island on the west coast of Scotland, off Mull. County Argyle, one of the Hebrides, about 12 miles long and from 3 to 3½ miles broad. A great portion of it is moor. incapable of cultivation; but there are some tracts of light and sandy soil which are tolerably productive. Gaelic is universally spoken. Pop. 643.

Collation (kol-lā'shun). a comparison of one copy or thing

Collimation

of a like kind with another, especially tions alike, of teaching, examining, demanuscripts and editions of books.—In gree-conferring, etc. canon law, the presentation of a clergy-man to a benefice by a bishop who has the right of patronage. In such a case the combination of the act of presentation and institution constitute collation. much use to shepherds. It is of medition to the contract of the collation of

charitable motives. Hotels or board-ing-houses were provided (principally by the religious orders, for the benefit of those of their own fraternity), in which those of their own fraternity), in which the scholars lived under a certain superintendence, and the endowment of these hostels by charitable persons for the support of poor scholars completed the foundation of a college. Out of this has developed the modern English college as or transit instrument, such as a telescope at Oxford and Cambridge, where each college, though a member or component part of the university, is a separate establishment whose fellows, tutors, and students live together under a particular head, called master, principal, object-glass and warden, etc., of the college. In the United States and Germany the college is practically one with the university, threads placed at

the combination of the act of presentation and institution constitute collation. much use to shepherds. It is of medical collect (kol'lect), a term applied to um size and varies much in coloring, certain short prayers in the liturgies of various churches. Some of the Collects of the English Church are taken from the old Roman Missal, and are supposed to have been written by St. Jerome. Others are still more ancient; long, bushy and with a pronounced curl. while a few have been added after the Reformation. There is a collect for every Sunday in the year, and a correvery Sunday in the year, and a corresponding epistle and gospel.

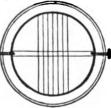
College (kol'ej; Latin, collegium), in a general sense, a body or in 1650. He was educated at Cambridge, and having entered into orders obtained the rectory of Ampton in Suffolk in 1659. He was a zealous opponent of the Revolution of 1688, and was repeatedly imprisoned for his political writings. He is chiefly remembered now for his Short View of the English Stage—a work of considerable merit colleges of surgeons, a college of heralds, etc. The most familiar application of the term college, however, is to a society of persons engaged in the pursuits of literature, including the professors, lecturers, or other officers, and the students.

As analied to a general sense to surgeons, a college of weathers are critical essayist on old much use to shepherds. It is of medium size and varies much in coloring, black and white being common, and black with tan-colored legs, muzzle, etc., being highly esteemed. The head is somewhat fox-shaped, the ears erect, but

interature, including the professors, lecturers, or other officers, and the students. As applied to an educational institution came known as a critical essayist on old the name is somewhat loosely used. The higher class of colleges are those in editor of the new edition of Dodsley's which the students engage in study for old Plays in 1825. In 1831 his best the purpose of taking a degree in arts, work, the History of English Dramatio medicine, or other subjects, and are connected with, or have more or less the character of universities. The early sheet obscure; the probability is that they were originally founded in the various universities of the middle ages, with similar objects and from the same that he possessed a copy of the 2d Folio charitable motives. Hotels or boardorary. Subsequently he published several editions of Shakespere, and an excellent edition of Spenser (5 vols., 1862). He made himself notorious by claiming that he possessed a copy of the 2d Folio Shakespere, 1632, with many marginal emendations and annotations written in the middle of the seventeenth century, though, as was discovered, these notes were fabrications, probably by himself.

Collimation (kol-i-mā'shun), LINB OF. in an astronomical or, in an astronomical

passes



Collimation.

the focus of the eyepiece. The proper from which he never quite recovered. adjustment of the line of collimation of died in 1759. adjustment of the line of collimation of the instrument is necessary to accurate observation of the time at which movements of the heavenly bodies take place.

Collimators

(kol-i-mā'tors), two small, subsidiary telescopes used for collimating astronomical instruments; that is, for adjusting the line of collimation, and for determining the collimation error.

Collin'. See Kollin.

had 'an estate in the country, a library in town, and friends everywhere.' His chief works are Discourse of Free Think-

elist of great dramatic and constructive

Collingwood (kol'ing-wud), Cuthish naval commander, born at Newcastle-upon-Tyne in 1750. He entered the royal navy in 1761, and took part as flag-captain on board the Barfleur in Lord Howe's victory of June 1, 1794, commanded the Excellent during the battle off Cape St. Vincent on the 14th of February in that year, and was made rear-admiral of the white in 1799. But his most distinguished service was at Trafalgar, where his skill and resolution drew warm praise from Nelson. On the latter's death Collingwood as senior officer took command of the fleet, and gave proof of his judgment and nautical skill in his dispositions for the preservation of the captured vessels. For his services here he was elevated to the rank of baron. He died, while cruising off Minorca in the Ville de Paris, on March 7, 1810. His memoirs and correspondence have been published.

Collingwood, a manufacturing and march 7, 1810. His memoirs and correspondence have been published.

Collingwood, Anthony, an English delatical writer, born in 1676; died in 1729. He was a friend of Locke, who described him as a man who to an entire compensation from the had 'an estate in the country, a library other. Strict laws and regulations to the restraction from the had 'an estate in the country, a library other. Strict laws and regulations to Locke, who described him as a man who to an entire compensation from the had an estate in the country, a library other. Strict laws and regulations to in town, and friends everywhere. His prevent collisions have been laid down, in town, and friends everywhere. His prevent collisions have been laid down, chief works are Discourse of Free Thinking; Philosophical Inquiry Concerning and sailing and stering rules. By the Human Liberty; Discourse on the rule of the road at sea, if two sailing Grounds and Reasons of the Christian ships are approaching each other end Religion; Literal Scheme of Prophecy Considered.

Collins, William, an English poet, was born in 1721 at Chichester. While studying at Oxford he wrote sion the sailing ship with the wind on his Oriental Eclogues, the moderate success of which enceuraged him to try a of the ship with the wind on the published his Odes, containing pieces which now rank among the finest lyrics ward shall keep out of the way of the language. Disappointed with the one that has it to leeward. If a steam-strung by irregular habits and excitement, he fell into a nervous melancholy, must keep out of the way of the latter.

If one vessel is overtaking another she junction with Garrick). From 1777 till must keep out of the way of the last- 1791 he conducted the little theater in named vessel.

Collodion (ko-lo'di-on), a substance prepared by dissolving pyroxiline (guncotton) in ether, or in a mixture of ether and alcohol, which forms a useful substitute for adhesive plaster in the case of slight wounds. When the fluid solution is applied to the When the fluid solution is applied to the cut or wound it immediately dries into a semitransparent, tenacious film, which adheres firmly to the part, and under it the wound or abrasion heals without inflammation. In a slightly modified form collodion is also employed as the basis of a photographic process called the collodion process. See Photography.

Strasburg. It has manufactures of printed goods, calicoes, silks, etc., besides cotton-mills, tanneries, etc. It was united to France in 1681, and surrendered the colloids (kol'oids), non-crystallizable substances such as gelatine, gum, etc. See Dialysis.

Collot d'Herbois (kol-5 dar-bwa), JEAN MARIE, a leader in the French revolution, born in 1750; died in 1796. He became promi-1750; died in 1796. He became prominent as a leader of the Mountain or extreme party. He was sent by Robespierre along with Fouché to Lyons in 1793, with almost unlimited powers, and was guilty of the most flagrant enormities. Returning to Paris he became a determined opponent of Robespierre, and being chosen president of the Convention (July 19, 1794), contributed to his fall. He was later banished to Cayenne.

Collusion (ko-lû'shun), in law, a service of the city of Manchester. The chief manufactures are cotton and woolen goods. Pop. 25,693.

Coloradia (kol-ō-kā'si-a), a genus of plants, nat. order Araces, the leaves and tubers of which are acrid. The latter contain much starchy matter, and they are used as food in the south of Europe after the acrid matter is september of the city of Manchester. The chief for the ci

Collusion (ko-lû'shun), in law, a se-

Colman, George ('the Younger'), son of the preceding, was born in London in 1762; died there in 1836. He assisted his father as director of the Haymarket Theater, and succeeded him as patentee. His dramas include John Bull, The Heir-at-Law, Poor Gentleman and Love Laughs at Locksmiths.

united to France in 1681, and surrendered to Germany by the Treaty of Versailes, February 26, 1871. Pop. (1905) 41,582. Cöln. See Cologne.

Colne (köln), a town of England, in Lancashire, 34½ miles N. by R. of the city of Manchester. The chief manufactures are cotton and woolen goods. Pop. 25,693.

of Europe after the acrid matter is sep-arated by washing or bolling. C. escu-lenta, C. macrorhiza, and others furnish the turo of the Pacific islands. See

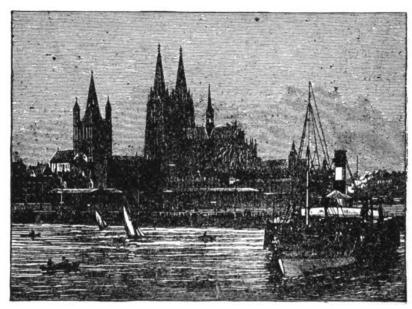
Collusion (ko-lū'shun), in law, a secret agreement between opposing litigants to obtain a particular judicial decision on a preconcerted state ment of facts, whether true or false, to the injury of a third party. Collusion, when proved to exist, nullifies the judgment obtained through it.

Collyer, ROBERT, an American Unimedicine as an aperient.

Collyer, tarian clergyman, born at Keighly, Yorkshire, England, in 1823, and died in New York in 1912. He learned the blacksmith trade, which he practised for some time after coming to America in 1850. He was at first a Methodist local preacher, but became a Unitarian in 1859. He founded Unity Church, Chicago, and was for many years pastor of the Church of the Messiah, New York. His books include Nature and Life (1864), The Simple Truth (1878), Talks to Young Men (1888), Things New and Old (1893).

Colman (kol-man), George, an English dramatic writer and theatrical manager, born at Florence in 1733; died in 1794. He is author of Polly Honeycombe, The Jealous Wife, and The Clandestine Marriage (in con-

The most important edifice of all is the cathedral, begun in 1248, one of the it was taken by the French in 1794, ceded finest and largest Gothic structures in Europe. It was completed only in the 19th century, there being expended on it in 1828-84 over \$5,000,000. It is in the form of a cross; its entire length is about 480 feet; breadth, 282 feet; height to ridge of roof, 202 feet; height color, transparent, and durable in water-of the two western towers, between color painting. It is an earthy variety which is a grand portal, 520 feet, being of lignite or partially fossilized wood.



Cologne, showing Cathedral and Church of St. Martin

thus among the highest edifices in the Cologne Water, world. The council-house, museum, and fine St. Martin Church with its imposing tower should also be mentioned. The manufactures embrace sugar, to-bacco, glue, carpets, leather, machinery, chemicals, pianos, and the celebrated eau de Cologne. The trade by river and railway is very great.—Cologne is of pre-Christian origin, and was originally pre-Christian origin, and was originally formula is a secret. called Oppidum Übiorum, being the chief town of the Ubii, a German nation. The Romans made it a colony A.D. 51, and called it Colonia Agrippina (whence the name or of the most powerful and became one of the most powerful and wealthy cities of the Hanseatic League, the countries of South America, consist-but latterly it declined, and its commercial

Cologne Water, AQUA COLOGNILOGNE, SPIRITUS ODDRATUS, is a yellowish liquid perfume composed of spirits
of wine, and a few drops of various essential oils, so blended as to yield a fine
fragrance. It was first produced in
Cologne by Jean Farina, in 1709, and is
still manufactured there by persons bearing or assuming the same name Its ing or assuming the same name. Its

Colombia Colombo

and a federal district. The population in 1912 was 5,475,691; area approximately 641,000. The chief towns are Bogota, capital; Medellin, and Cartagena. The territory of the republic tween Panama on the Pacific and Colon formerly included the Isthmus of Panama, but Panama declared its independence in November, 1903 and there is this has ceased with the secession of much disputed boundary territory in the clast. According to surface conformation, the country may be divided into the elevated region of the Cordilleras in the west, and that of the low-lying lands in the east. The former occupies the greater portion of the country, and presents a gether were in 1912, \$32,221,000 and \$23, richly-diversified surface, being formed the east. There are several chiefly of three mountain chains which stretch north and south in a nearly parallel direction, inclosing between them the valleys of the rivers Cauca and Magdalena. These, the two great navigable rivers of the country, flow northwards, joining their waters about 120 miles from the central ridge is the culminating their waters about 120 miles from the central ridge is the culminating their waters about 120 miles from the central ridge is the culminating the contral republic. Cartagena and Santa Marta, none importance, but he lath mus of Panama and the small line of Panama on the Pacific and Colon on the Atlantic once gave Colombia con the Caribage (two two the Atlantic once gave Colombia con the Atlant and a federal district. Joining their waters about 120 miles from their embouchure in the Caribbean Sea. In the central ridge is the culminating point of Colombia, the volcano of Tolima, 18,432 feet high. The low lands of the flora is rich and luxuriant. A great part of the country is still covered with virgin forests, which yield excellent building-wood, Peruvian bark, caoutchouc, vanilla, etc. The fauna include the jaguar, puma, tapir, armadillo, sloth, various species of deer, and the gigantic condor. The mineral wealth is various tand abundant, though still imperfectly explored. It comprises coal, gold, silver (both now largely worked by foreign companies), emeralds and salt. Industry is at a very low stage. Maize, bananas, and plaintains are the chief articles of food. Tobacco and coffee are cultivated and exported. Sugar-cane is also grown. Manufactures can scarcely be said to exist. Panamá hats, mats, and coarse cotton cloths being almost the only ant town with an extensive fort, within articles that can be mentioned in this are roughlic of cocupies a projecting point of

The population Cartagena and Santa Marta, none imparea approx-portant. The possession of the Isth-

dent, a supreme court, and a legislature consisting of an upper and lower house; the former chosen by electoral colleges, the latter by direct votes. The departpoint of Colombia, the volcano of Tolima, 18,432 feet high. The low lands of the east form a transitionary region between the plains of North Brazil and the llanos of the Orinoco region, the drainage being carried to the Amazon and Orinoco. The chief coast indentations are small and dangerously exposed bays. The climate is naturally as varied as the surface of the country, there being portions perpetually covered with snow, but over a great part of the republic it is very hot. The rainfall is very heavy on the coast. At some places on the Caribbean Sea, and on the Pacific coast, yellow fever is endemic; but for the most part in the elevated country, as the Plain of Bogotá, 8000 feet above the sea, the climate is profectly salubrious, and the temperature seems that of eternal spring. The flow of Venezuela in effecting its liberation. Both states then united with Ecuador, 8000 feet above the sea, the climate is profectly salubrious, and the temperature seems that of eternal spring. The flow of Venezuela in effecting its liberation to form the first republic of Colombia: but internal dissensions arising, the three states again separated in 1831, forming three independent republics, which have had a very troubled existence. In 1861 and a very troubled existence. In 1861 had a very trouble ments have appointed governors and bi-ennial assemblies. The constitution dates

Co'lon, a punctuation mark, consisting.

the other, thus: used to mark a pause in the sense that sometimes might also be indicated by a full stop. It also indicated by a full stop. It also indicated by a full stop. At the age of nineteen she was cates a connection between a preceding

of the Panama Canal. Established in object of the deep anection of michael connection with the railway, it had an important transit trade before the canal was addressed some of his finest sonnets to begun, and since then the place has been her. She died at Rome in 1547. Her entirely transformed. Since 1903 the most celebrated work is the Rime Spiri-United States has had jurisdiction over fueli, 1538. sanitation and quarantine, and by a treaty in 1914 was given control of the harbor.

colonel (kér'nel), the commander of a regiment, whether of horse, foot, or artillery. Any rank above a colonel constitutes the bearer of it a formed in dependence on the mother ceneral officer. In the British service country or in independence. In the latter the rank of colonel is honorary, except case the name of colony is retained only in the artillery and engineers, and is usually bestowed upon officers of superior rank and princes of the blood. In which carries on a direct cultivation of the German, Austrian and Russian armies, when the regiments are very or Australia; such settlements as those ary posts, held by royal or distinguished persons. In the United States army a of a ruling race which takes little or no colonel is the chief commander of a regi-

land. On the north side of the fort, on the margin of the sea, is the Pettah or dier-general, and above a lieutenant-Black Town, inhabited chiefly by Singhalese, while in the environs are most colonel.

The public buildings comprise the government folices, government house, substitution of a breakwater and other works there is now excellent harbor accommodation, and numerous vessels call bere. Pop. (1911), 213,396.

Colombo. See Calumba.

Colombo. See Cal

indicated by a full stop. It also indiindicated by a full stop. It also indicates a connection between a preceding
phrase and a following one, and is used
preceding a quotation.

Colon, formerly Aspinwall, a seaport
land, on the north side of the Isthmus
of Panamá, at the Atlantic extremity of
the interoceanic railway, and near that
solitude and in poetry. She became the
of the Panamá Canal. Established in
connection with the railway, it had an im-

Colonnade (kol-o-nād'), in architec-ture, any series or range in 1914 was given control of the harbor. Of the harbor of columns placed at certain intervals from each other. When surrounding the Colon, a town of Cuba, Province of building on the exterior the colonnade is Cardenas. It is in a sugar-growing region. Pop. 7124. a portico.

the Mediterranean, the coasts of Macedonia and Thrace, in South Italy and Sicily, were commonly independent, and frequently soon surpassed the mother states in power and importance. The colonies of Rome were chiefly military, and while the empire lasted were all in strict subordination to the central government. As the Roman power declined the remains of its colonies amalgamated with

country. The motives which lead to the on the Malabar coast of India. The formation of colonies, and the manner first Portuguese colonies were garrisons of their formation, are various. Some-along the coasts where they traded: Motimes the ambition of extending territory zambique and Sofala on the east coast of and the desire of increasing wealth have Africa, Ormuz and Muscat in the Persian been the chief impulses in colonization; Gulf, Goa and Damao on the west coast but colonies may now be said to have be-of India. Colonies were established in of their formation, are various. Sometimes the ambition of extending territory and the desire of increasing wealth have been the chief impulses in colonization; but colonies may now be said to have become a necessity for the redundant population of European states. Among ancient nations the principal promoters of colonization were the Phemicians, the Greeks, and the Romans; the greatest colonizers in modern times have been the English and the Spaniards, next to whom may be reckoned the Portuguese, the Dutch, and the French. The Germans have latterly contributed largely to the tide of emigration, particularly in the direction of America; but they have done little directly as colonizers.

The Phemician colonies were partly caused by political dissensions and redundant population, but were chiefly commercial, serving as entrepôts and ports of repair for Phemician commerce along the coasts of Africa and Spain, in the latter of which they numbered, according to Strabo, more than two hundred. But it was in Africa that the most famous arose, Carthage, the greatest colonizing state of the ancient world. The Greek colonies, which were widely spread in Asia Minor and the islands of the Mediterranean, the coasts of Macedonia and Thrace, in South Italy and contact in the persion of Africa and Spain took the first rank among the colonizing powers of denia and Thrace, in South Italy and

were soon colonized. Before the middle of the sixteenth century Mexico, Ecuador, Venezuela, New Granada, Peru and Chile were subdued, and Spain took the first rank among the colonizing powers of Europe. But the Spaniards never really attempted to develop the industrial resources of the subject countries. The pursuit of mining for gold or silver occupied the colonists almost exclusively, and the enslaved natives were driven to work themselves to death in the mines. work themselves to death in the mines. Cities were founded, at first along the coasts, for the sake of commerce and as ment. As the Roman power declined the remains of its colonies amalgamated with coasts, for the sake of commerce and as the peoples among whom they were placed, thus forming in countries where interior, in particular in the vicinity of they were sufficiently strong what are the mines, as Vera Cruz, Cumana, Porto known as the Latin races, with languages (Spanish, Portuguese, French and Italian) which are merely modifications of Pacific; Lima, Concepcion and Buenos the old Roman tongue. Before America Ayres. The colonial intercourse with and the way by sea to the East Indies Spain was confined to the single port of were discovered, the only colonies belong. Seville, afterwards to that of Cadiz, from ing to European states were those of the which two squadrons started annually—Genoese, Pisans, and Venetians in the the galleons, about twelve in number, for Levant and the Black Sea, flourishing Porto Bello; and the fleet, of fifteen large establishments on which the mercantile vessels, for Vera Cruz. When the power greatness of Italy in those days was of Spain declined, the colonies soon took largely built.

The Portuguese were the first great colonizers among modern states. In of Mexico, Venezuela, Colombia. Ecua-1419 they discovered Madeira, the dor, Peru, Bolivia, Argentina, Chile, etc. Azores, and the Cape Verd Islands; the Its remaining colonies, Cuba, Porto Rico, Congo and the Cape of Good Hope follows was of 1898, Cuba becoming an indevence of Gama had landed at Calicut war of 1898, Cuba becoming an indevence of the vasco de Gama had landed at Calicut war of 1898, Cuba becoming an indevence of the vasco de Gama had landed at Calicut war of 1898, Cuba becoming an indevence of the vasco de Gama had landed at Calicut war of 1898, Cuba becoming an indevence of the vasco de Gama had landed at Calicut war of 1898, Cuba becoming an indevence of the colonies of the vasco de Gama had landed at Calicut war of 1898, Cuba becoming an indevence of the colonies of the vasco de Gama had landed to calicut war of 1898, Cuba be

pendent republic. The Ladrone group was transferred to Germany with the being still under the government of the exception of Guam, held by the United States. The colonies of Spain are now confined to about 250,000 sq. miles in Africa and some small islands.

The hate of Philip II, who prohibited Dutch vessels from the port of Lisbon, forced the people of Holland to import directly from India or lose the large carrying trade they had acquired. Several companies were soon formed, and in relinquished, and which, in the reign of 1602 they were united into one, the Dutch East India Company, with a monopoly of the East India trade and sovereign powers over all conquests and colonies in India. The Dutch now 1607 the colonies in India. The Dutch now 1607 the colonists sent out by the London rapidly deprived the Portuguese of nearly all their East Indian territories, settled Jamestown, on the James River, in Vira colony at the Cape of Good Hope (1623-60), established a West India Company, made extensive conquests in Brazil Heart of the Pilgrim Fathers, who landed pany, made extensive conquests in Brazil December 21, 1620, in Massachusetts (1623-60), which were soon lost, and more permanent ones on some of the smaller West India Islands, as San Eustatia, Curaçoa, Saba, etc. The grewing power of the British and the loss of Holland's independence during the Napoleonic wars were heavy blows to the seized the colony of New Amsterdam by seized the colony of New Amsterdam by carrying trade they had acquired. Several companies were soon formed, and in 1602 they were united into one, the Dutch East India Company, with a monopoly of the East India trade and sovereign powers over all conquests and colonies in India. The Dutch now rapidly deprived the Portuguese of nearly all their East Indian territories, settled a colony at the Cape of Good Hope (1650), established a West India Company, made extensive conquests in Brazil (1623-60), which were soon lost, and more permanent ones on some of the smaller West India Islands, as San Eustatia, Curaçoa, Saba, etc. The grewing power of the British and the loss of Holland's independence during the Napoleonic wars were heavy blows to the

No colonizing power of Europe has had a career of such uniform prosperity as Great Britain. The English attempts at colonization began nearly at the same time with the Dutch. After many fruitless attempts to find a particular such as a colonization of the same time with the Dutch. less attempts to find a northeast or north-west passage to the East Indies, English vessels found their way round the Cape of Good Hope to the East Indies in 1591. The East India Company was established in 1600. English commerce with India, however, was not at first important, and nowever, was not at first important, and they possessed only single factories on the continent up till the beginning of the 18th century. The ruin of the Mogul Empire in India after the death of Aurengzebe (1707) afforded the opportunity for the growth of British power, as the British and French were compelled interfers in the contentions of the native princes and governors. The in 1642, followed in 1803. West Austreech appeared at first to maintain the tralia became a free colony in 1829. Vicsuperiority; but the British in turn got toria was colonized in 1835 and made an the upper hand, and the victory of Clive independent colony in 1851. South Austreech 1756 laid the foundation tralia was settled in 1836. All these of an exclusive British sovereignty in states are now included in the Common-India. By the middle of the next century wealth of Australia. New Zealand was the British territory embraced, with the discovered by Tasman in 1642 and made exception of a few dependent states, near- a colony in 1840. The Fiji Islands were

pendent republic. The Ladrone group ly the whole of India, this vast territory

ready in possession; but in 1664 they seized the colony of New Amsterdam by force, changing its name to New York in honor of James, Duke of York. Pennsylvania was founded by William Penn, and Holland's independence during the Napo-leonic wars were heavy blows to the seized the colony of New Amsterdam by colonial power of the nation. But the force, changing its name to New York in Dutch still possess numerous colonies in honor of James, Duke of York. Pennsyl-the East Indies, among which the more vania was founded by William Penn. and important are Java, Sumatra, Dutch colonized with Quakers in 1682; Mary-Borneo, the Molucca Islands, and part of New Guinea, also several small islands Carolina in 1670 and Georgia in 1732 by in the West Indies and Surinam. Colonies from England. Colonies were No colonizing power of Europe has had colonies from England. Colonies were early established in the West India Islands, including Barbadoes, half of St. Christopher's (1625), and soon after many smaller islands. Newfoundland was taken and the colonies were colonies were colonies were colonies. taken possession of in 1583, colonized in 1621 and 1633. Canada was surrendered to Britain at the Peace of Paris in 1763. In 1764 began the disputes between Britain and its North American colonies, which terminated with the acknowledg-ment of the independence of the United States, Canada still remaining a British dependency.

Australia was discovered in the beginning of the seventeenth century. The first Australasian settlements of Britain Aurengzebe (1707) afforded the opportunity for the growth of British power, discovered in 1770, was established as a state British and French were compelled penal colony in 1778. Tusmania (Van to interfere in the contentions of the Dieman's Land), discovered by Tasman native princes and governors. The in 1642, followed in 1803. West Austreals appeared at first to maintain the tralia became a free colony in 1800.

annexed in 1874 and New Guinea in 1884. In South Africa, Cape Colony, first settled by the Dutch in 1652, became an English colony in 1814. Great Britain holds possession of the Boer republics and other vast stretches in Africa. Egypt was formally declared a protectorate in 1914 during the European war; Cyprus was annexed at the same time.

France was somewhat late in establishing colonies. Between 1627 and 1636 the West Indian Islands of St. Christopher's, West Indian Islands of St. Christopher's, Guadeloupe, and Martinique were colonized by private persons. Champlain was the pioneer of the French in the exploration of the North American continent, and founded Quebec in 1608. Colbert purchased several West Indian Islands, as Martinique, Guadeloupe, St. Lucia, etc., and sent out colonists in 1664 to Cayenne. In 1670 the East India Company formed by Colbert founded Pondicherry, which became the capital of extensive possessions in the East Indies. At the beginning of the eighteenth century France had ning of the eighteenth century France had extensive settlements in Canada, Nova Scotia and Newfoundland, the most flourishing of the West Indian Islands, and she seemed to have a prosperous career before her in India. In time, however, the rival interests of British and French and the property should be conflict which colonists brought about a conflict which terminated in the loss of Canada and other North American possessions, as well as many of the West Indian Islands, while the dominion of India passed into the hands of the British.

The chief colonial possessions of France

are: Algeria, Tunis, part of Morocco, French West Africa, Equatorial Africa, Somaliland, Madagascar, Mayotta, Island of Reunion, French India, Cochin-China, Guadeloupe, Martinique, French Guiana, and some islands in the Pacific.

Of recent years Germany has made an effort to take rank as a colonial power, and at the beginning of the European war (1914) had an African empire of over 1,000,000 sq. miles. Togo, Southwest Africa, and the Cameroons were acquired in 1884, East Africa in the following year. German New Guinea, which included the Bismarck Archipalago Katagomithalago German New Guinea, which included the Bismarck Archipelago, Kaiserwilhelms and completely defeated. As a result, the land, and some of the Solomon islands, independence of Abyssinia was acknowledged, but Italy still held Eritria, and ment in 1884. The Carolines and other islands in the Pacific were acquired in the extreme eastern section of Africa. 1899. The long arm of the German empire stretched out to China, where Great Britain had established herself at Hongkong, Weihaiwei, and elsewhere, and in 1911, a war ensuing between the Italy still held Eritria, and in the extreme eastern section of Africa. 1899. The long arm of the German empire stretched out to China, where Great Britain had established herself at Hongkong, Weihaiwei, and elsewhere, and in 1911, a war ensuing between the Italy still held Eritria, and the Eurkish possession, in 1911, a war ensuing between the Italy still held Eritria, and the extreme eastern section of Africa. The stretched out to China, where Great Britain had established herself at Hongkong, Weihaiwei, and elsewhere, and in 1911, a war ensuing between the Italy still held Eritria, and added to it a larger district in Somaliland, in the extreme eastern section of Africa. 1899. The long arm of the German empire stretched out to China, where Great Britain had established herself at Hongkong, Weihaiwei, and elsewhere, and in 1911, a war ensuing between the Italy still held Eritria, and added to it a larger district in Somaliland, in the extreme eastern section of Africa. 1899. The long arm of the German empire stretched out to China, where Great Hongkong, Weihaiwei, and elsewhere, and in the extreme eastern section of Africa. 1999. The long arm of the German empire stretched out to China, where Great here are transfer at Hongkong and surrounding colonizing country of Europe properties of the Faroe Islands, ancient acquisitions, the Eritria, and elsewhere and the Eritria, and elsewhere and the extreme eastern section of Africa. 1999. The long arm of the German empire stretched out to C

the territory during the European war. Under the German system the inhabitants of the colonies have no voice in their administration; the laws are framed by the Imperial parliament. During the Euro-pean war the colonial empire of Germany was captured by Great Britain and her

Allies.

Japan is the most recent of the empirebuilding nations, her policy of expansion dating from 1854, the year in which Commodore Perry succeeded in establishing motore Perry Succeeded in establishing treaty relations between Japan and the United States. French officers remodelled her army; British sailors her navy, and following her easily successful war with China she was ceded Formosa in 1894. As a result of the Russo-Japan in 1894. The paramount interests of Japan in 1894. Korea were recognized, and in 1910 Korea Korea were recognized, and in 1910 Korea was formally annexed by Japan, and given the name of Cho-sen. Japan also acquired the Liao-Tung peninsula with Port Arthur, China's strongest fortress, which Russia had seized. The port of Tsing-tao (Kiao-chow), which Germany had leased from China, was taken by Japan during the European war in 1914. Her 'special interests' in China were recognized by the United States, and an extension of her colonial power in that country is expected. country is expected.

Belgium became a colonial power by the annexation in 1908 of the Congo Free State, which had been under the personal overlordship of Leopold II, King of the Belgians, who had governed the territory with extreme cruelty.

Italy attempted to take part in the partition of Africa among the European powers, but had an unfortunate experience. In 1882 it erected into a colony a coaling station held by it on the Red Sea, in 1885 occupied Massowah, and in 1889 combined its colonial territory under the name of Eritrea. This lay along the Red Sea coast of Abyssinia and the whole of that ancient kingdom came to be looked upon as under an Italian protectorate. But there was a rude awakening in 1895 when an Italian force, which had pene-trated Abyssinia, was attacked at Adowa

islands in the Virgin Island group of the West Indies, but the United States pur-chased the Danish West Indies from Den-

mark in 1917.

At the end of the Spanish-American war (1898) the United States found itself with four new over-seas possessions: Hawaii, Porto Rico, Guam, and the Philippines. Prior to the war the native queen of Hawaii had been deposed and the new government had attempted to negotiate a treaty providing for annexation to the United States. President Cleveland made an effort to restore the deposed queen to power, but failing in this, another treaty of annexation was presented to the Senate in President McKinley's administration. This was still pending when the war broke out. The events in the Philippines forcibly called the attention of the country to the necessity for controlling Hawaii, which was invaluable as a coaling station for the trans-Pacific voyage, and action upon the treaty was consequently hastened. The annexation was finally effected by a joint resolution passed July 7.

The other new possessions were taken from Spain as the result of military vic-tories. Porto Rico had been invaded and in large part conquered by American troops near the end of the war, and its transfer to American sovereignty was therefore looked upon in the United States as the natural consequence of the conflict. The people of the island apparently desired annexation to the Union, since they had little ambition, as had the Cubans, for national independence. The

Cubans, for national independence. The provision was therefore included without question in the treaty of peace. The same was true of the little island of Guam in the Pacific, which was taken simply for use as a coaling station.

With the Philippines, however, the case was different. The original occupation of these islands by the United States might almost be described as an accident. At the outbreak of hostilities, Admiral Dewey, with the United States Pacific the outbreak of hostilities, Admiral Dewey, with the United States Pacific squadron, had received orders to attack the Spanish naval forces at Manila. This was an obvious move from a military point of view, because the destruction of the enemy's naval forces in the Far East was necessary both for the security of the West Coast of the United States and for the security of American commerce. The administration had at the time no idea of acquiring the Philippines. After Dewey's brilliant victory at Manila Bay, when the Admiral asked that troops be sent to occupy the city, and to destroy the Spanish the islands by Spain had been demanded army there, the officials at Washington by the peace commissioners on political,

campaign to seize the islands that it was several weeks before the army could be sent. Even after the American forces had taken Manila, there seems to have been little intention on the part of the admin-istration at Washington to hold the permanently. Aguinaldo, leader of the last Philippine rebellion, had been brought back from exile in an American war ship, and had been encouraged and assisted by Dewey in starting a new uprising. There was no agreement to assist him in securing the independence of the islands, but there was a sort of alliance between him and the American forces against the common enemy. Agui-naldo had occupied nearly all of the rest of the Island of Luzon when the United States forces took Manila.

The preliminary peace protocol had provided that 'the United States shall hold and occupy the city, bay, and harbor of Manila, pending the conclusion of a treaty of peace, which shall determine the control, disposition, and government of the Philippines.' This had been regarded by Spain as providing for the ultimate reby Spain as providing for the ultimate return of the islands to her. President McKinley apparently had no desire to retain the islands for the United States, and public opinion in this country was entirely undecided as to the course which should be pursued. In the interval between the signature of the protocol on August 12, 1899, and the conclusion of the Treaty of Peace on December 10 of the same year, however, there was a comthe same year, however, there was a complete change in the attitude of the American people, which was reflected in the action of the government. When the peace commissioners left the United States in September, they were instructed to demand the cession of the Island of Luzon and the grant of reciprocal commercial privileges in the other islands of the archipelago. On October 26, they were instructed by cable to demand the cession of the entire group. The Spanish com-missioners objected strongly, but were finally forced to accept the compensation offered—the payment by the United States to Spain of \$20,000,000. The Philippines thus became the property of the United States.

The sudden change in the attitude of the United States was due to the so-called 'imperialistic' movement which swept the country in the autumn of 1898. There were several factors which contributed to arouse a strong popular opposition to the abandonment of what was regarded as a legitimate conquest. The cession of the islands by Spain had been demanded were so little prepared for an aggressive commercial and humanitarian ground

Their retention seemed, indeed, to be the 1896, \$1,050,993,556 in 1897, and 1,231, only course consonant with the national honor and dignity. It was impossible to return them to Spain, after the revelations which had been made regarding the there, and after the alliance which had caristed between the American forces and the Philippine insurgents under Aguinaldo. It was equally impossible to make son. The raw materials which had hith-them independent, because of their manier and the country's foreign. them independent, because of their mani-est unfitness for self-government. There was a strong belief that Germany, which had become an object of grave suspicion since the unpleasant episode between the commander of her far eastern fleet and Admiral Dewey after the battle of Manila Bay, would seize the archipelago as soon as the United States withdrew. The victories of the war, moreover, had aroused a consciousness of national strength and a consciousness of national strength and national greatness which lifted the people of the United States out of their absorp-tion in their own internal affairs, and filled them with an ambition to play a larger part in the world than ever before. Newspapers and orators began to speak of the United States as a world power, and to point to the acquisition of the Philippines as the first step in the fulfilment of our destiny to dominate the filment of our destiny to commate the Pacific. There was a strong feeling that the United States ought to obtain a territorial foothold in the Far East, in view of the apparently approaching partition of China. The seizure of several ports in that empire by European powers in 1898 and apparently age to whether it that empire by European powers in 1898 had aroused grave doubts as to whether it was destined to remain independent many years longer, and the interests of the United States in the future of the empire were felt to be so great that it could hardly afford to neglect an opportunity to obtain a naval and commercial base from which it might exercise an influence upon the course of events. the course of events.

The expansionist movement was, perhaps, not so much political and sentimental as economic. The business interests of the country were convinced that it was time for the United States to adopt the imperialist ideal which had guided the foreign policy of England, France, and Germany during the three decades just Germany during the three decades just past. Their arguments were the same as those of the commercial leaders who favored expansion in the European countries. They believed that the United States had reached a point where it was impossible for it longer to subsist on its internal trade. The country was at the time passing through an era of immense expansion in commerce and manufactures. The total exports, which had been \$857. The total exports, which had been \$857. The Samoan islands were parceled out \$28,684 in 1890, were \$882,606,938 in among the nations as the result of the

erto predominated in the country's foreign commerce had found a ready market in the great manufacturing countries of Europe, but the increase in the volume of manufactured goods made it vital to seek new commercial outlets in countries which were industrially less developed. These outlets could only be obtained in colonies, outlets could only be obtained in colonies, for the great powers of the world, which had already divided between them the greater part of the earth's surface, were applying or threatening to apply to their possessions a closed door policy, which would exclude the trade of other nations. The Philippines would not only furnish

The Philippines would not only furnish for American goods a market of great ultimate potentialities, but would also provide a center of distribution for American trade in all parts of the Far East.

The arguments of the imperialists were violently combated in the United States. by persons who believed that the new movement involved an abandonment of the nation's traditional policies and ideals. The opponents of expansion declared that the retrieve our form of government nor our neither our form of government nor our national experience fitted us for the control of subject races, and that the acquisition of colonies could not but affect injuriously our own internal political and economic life. Many regarded the exer-cise of power over another people as a violation of the principles laid down in the Declaration of Independence and the Constitution, and branded the whole movement as un-American and pernicious. Others said that the new possessions would force the United States to become a military power, with danger to the liberty and security of its people. The opposition to the administration's policy was so strong in the Senate that the treaty of peace might not have been accepted if it had not been for the rebellion in the Deliliance which made are to become in the Philippines, which made many of its opponents feel that it would be cowardice to withdraw from the Islands until order had been restored. Immediately after its vote of ratification, however, the Senate passed a resolution stating that its action did not constitute a final deter-mination of its attitude towards the Islands.

intervention of the powers following a series of internal disturbances, fostered, it must be admitted, by the three foreign powers possessing considerable interests in Samoa: Germany, Great Britain, and the United States. Great Britain received the Solomon and Tonga Islands, Germany got Samoa, and the United States took possession of Tutuila and a few other small islands.

The Canal Zone, a strip of land extending 5 miles on either side of the Panama Canal, was acquired by agreement with the newly created republic of Panama, in 1903, the United States paying \$10,000,000 in gold and \$250,000 annually for the perpetual right of occupation of the terri-

The Virgin Islands, formerly the Danish West Indies, were acquired by the United States in 1917, the compensation being \$25,000,000. The islands composing the group are Santa Cruz, Saint Thomas, and Saint John.

Colophon (kol'o-fon), an ancient Greek city of Asia Minor, about 15 miles N. of Ephesus, one of the places claimed as the birthplace of Homer. Here dwelt Mimnermus, the elegiac poet, and some other men of emi-

Colophon, the device or imprint at the end of a published work, which in old books frequently stated the name of the author as well as the printer's name, along with the date and place of publication, most of which information is now put in the title-page.

(kol-of'o-ni), the dark resin obtained by distil-Colophony ling turpentine.

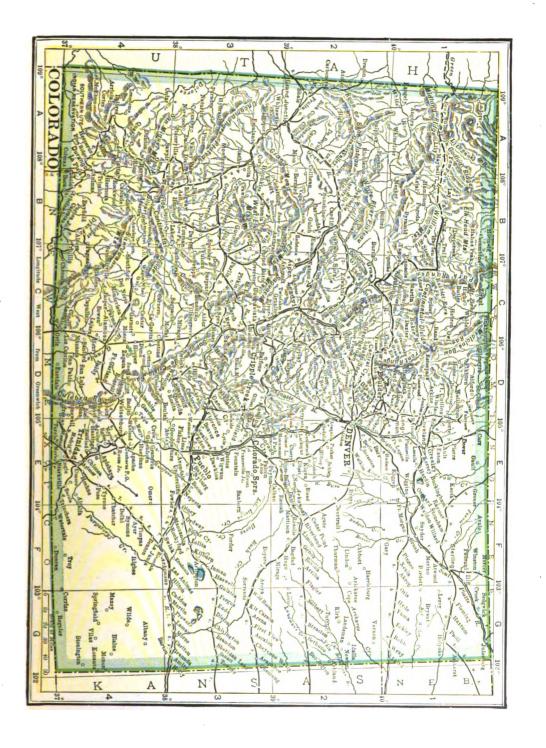
(kul'er), the name given to distinguish the various sensations Color that lights of various rates of vibration give to the eye. As in the case with many of the words that denote our sensations, the word color is also applied to the properties of bodies that cause them to emit the light that thus affects our senses. The molecular constitution of a body determines the character and number of the light vibrations it returns to the eye, and so gives to each body its own characteristic color; hence the term color is used to denote that in respect of which bodies have a different appearance to the eye independently of their form.

Ordinary white light (the light which mes from an incandescent solid or when transmitted through triliquid) when transmitted through tri-turning it suddenly to a white or light-angular prisms of glass or other media colored surface.

differing in dispersive power from the Colors in heraldry are azure, blue; atmosphere is shown to consist of a gules, red; sable, black; vert, green; number of colored lights, which, meeting purpure, purple; transe or taking, orange; the eye, together produce the sensation and murrey or sanguine, dark crimson. of white light. (See Spectrum and (See Heraldry.) Military colors are the

Light.) The colors thus shown are usually said to be seven—red, orange, yellow, green, blue, indigo, violet; although in reality there is an enormous, if not an infinite number of perfectly distinct colors in light. The seven colors are frequently called the primary colors, and other tints and shades are producible by mixing them; but in a stricter sense the primary colors are three in number, namely, red, green and violet (or blue). These three colors or kinds of light cannot be resolved into any others. In the scientific sense of the word white and black are not considered colors, a white body reflecting and a black body absorbing all the rays of light without separating them, whereas the colors proper are due to separation of the rays of light by partial absorption and reflection or by refraction. If a body absorbs every other kind of light and reflection to the result of the result is a second to the result of the result in the result is a second to the result of the result in the result is a second to the result in flects or transmits red light only, it will appear of a red color; if it absorbs every kind except blue rays, it will appear blue; and so on. If more than one kind of light be transmitted or reflected the object will appear of a color compounded of these different rays of light.

In art the term color is applied to that combination or modification of tints which produces a particular and desired effect in painting. The colors of the spectrum have to be distinguished from color used in reference to pigments. The pigments red, blue and yellow, regarded in the arts as the primary colors, produce effects, when mixed, very different from those produced by admixture of the compensant produced by admixture of the corresponding spectrum colors. These three pigment colors form other colors thus: red and yellow make orange, yellow and blue make green, and red and blue make purple; but red, blue and yellow cannot be produced by any combination of the other colors. Local colors are those which are natural to a particular object in a picture, and by which it is distinguished from other objects.—Neutral colors, those in which the hue is broken by partaking of the reflected colors of the objects which surround them. —Positive colors, those which are unbroken by such accidents as affect neutral objects.—Complementary colors, colors which together make white; thus any of the primary colors is complementary to the other two.—Subjective or accidental colors, the imaginary complementary colors seen after fixing the eye for a short time on a bright-colored object, and then turning it suddenly to a white or light-



 Colorado Colorado

flags or ensigns of a regiment. Colors, Military. See

Colorado (kol-o-ra'do), one of the United States of America, situated in the central belt of states in situated in the central belt of states in the Rocky Mountains, between lat. 37° and 41° N., and lon. 102° and 100° w., and containing an area of 103,948 sq. miles. The western and central portions of its area are occupied by an intricate plexus of wild and irregular ranges inclosing valleys known as 'parks,' most of which are fertile, well wooded, and of a mild climate. These 'parks,' are apparently the basins of former lakes upheaved and deprived of their waters above the level of the sea. These parks are generally small, but a few of them are larger than some entire states of the Union, as North Park, Middle Park, and Union, as North Park, Middle Park, and South Park. A large number of the mountains are over 14,000 feet high, including Pike's Peak, Long's Peak, and others. Of the mountain parks, the one best known and most frequented is Estes Park, northwest of Denver, a favorite summer resort. The eastern section of the state is a great plain well adapted for pasture.

The rivers include the Arkansas, South Platte, Grand River, etc.; some of them remarkable for the grandeur of their cañons. (See Arizona.) Among wild animals are found the grizzly, the black and the brown bear, prairie-wolf, several kinds of deer, big-horn sheep, etc. There are extensive forests. In the mountain regions the rainfall is small and of the arable lands in the state a great portion require irrigation. As a result the agri-cultural development has had a comparatively recent beginning. Although a large part of its area is of a character which makes the growing of crops impossible, large portions are admirably adapted for cultivation. The eastern two-fifths, which lies within the Great Plains section of the United States, is largely utilized for grazing purposes, but dry farming has been successful and irrigated portions yield

To the west of the divide in the San Luis valley, in the south-central part of the state, the rainfall is at times considerable. To the east of the divide, on the plains, the rainfall is heavier, and here some crops are grown without irrigation. The growth of agriculture is indicated by the following figures: The number of all farms in 1910 was 46,170, compared with 24,700 in 1900. The value of farm property from 1900 to 1910 shows a remarkable increase. In the latter year it was \$491,471,808 as compared with \$161,045,-

perfection. In general, cattle and sheep grazing are the leading pursuits of the rural population, though cattle raising on a large scale is decreasing. Sheep raising, which is confined largely to the southern counties, has likewise decreased.

The climate is dry and healthful, considered especially beneficial to asthmatic and pulmonary sufferers, and the charm-ing parks are becoming great natural sanitariums. The chief wealth of Colo-rado consists of its minerals, principally gold and silver. These were developed until Colorado led the states in their prountil Colorado led the states in their production, the yield of these two metals in 1897 being valued at \$47,078,535, more than one-third the total yield of the country. For many years after 1873 the output of silver was greater than that of gold; in 1892 it was six times as much; but in 1898 the gold was estimated at \$24,000,000, the silver at \$14,250,000. In 1910 the gold yield was stated at \$20,408,641; that of silver (commercial value), about \$5,000,000. Coal was the mineral product of second importance and silver ranked fourth. The coal fields of the ranked fourth. The coal fields of the state are divided by the major ranges of the Rocky Mountains into three groups, the Eastern, the Park, and the Western, the Eastern being the most highly developed. The coal ranges from sub-bitumioped. The coal ranges from sub-bituminous in the Denver regions, through various grades of bituminous, including the high grade cooking coal of the Trinidad and Glenwood Springs fields, to true anthracite, in the Crested Butte and Yampa fields. Iron, copper and lead are mined, iron being widely diffused. Other minerals are manganese, petroleum, zinc, cement and fire-clay.

Though pre-eminently a mining state

Though pre-eminently a mining state Colorado is active in manufacturing, part Colorado is active in manufacturing, part of which owes its existence to the needs of the mining industry. Irrigation of the fertile valleys of the Platte and Arkansas rivers and other streams has made the beet-sugar production of Colorado greater than that of any other state. The canning industry is also the outgrowth of the development of irrigation. The fact that Colorado is a natural grasing country is Colorado is a natural grazing country is responsible for the development of such industries as slaughtering and meat packing, the manufacture of butter, cheese, and condensed milk, the rendering of grease and tallow, and wool scouring.

The public school system is good, and there is a state university. The transportation facilities are excellent, and Colorado claims a greater railway mileage than any other of the Rocky Mountain states. In view of the fact that there are no navigable rivers in the state the legis-141 in 1900. Orchard fruits are in some lature of 1909 created a State Railroad parts brought to an unusual degree of Commission to take general charge of the

regulation of railway rates. Colorado was little known previous to 1859; it was organized as a territory in 1861, and admitted as a state in 1876. The state capital is Denver, which in 1870 had a population of 4759, and in 1910, 213,381. Leadville is the next in importance. Popof the state in 1870, 39,864; in 1910, 700,024; in 1917, 988,320.

700,024; in 1917, 988,320.

Colorado, a name of two rivers of the United States.—(1) the Western Colorado, or Rio Colorado, formed by the junction of the Green and Grand rivers, at about lat. 38° n.; lon. 110° w., in Utah. It flows southwest and south through Arizona, and between Arizona and Nevada and California, and after a total course, including Green River, of about 2000 miles, falls into the Gulf of California. Among the most wonderful natural objects in North America is the Grand Cañon of the Colorado, between lon. 112° and 115° w. Here the river flows between walls of rock which are nearly vertical, and are in some places 6000 feet high. This cañon is more than 300 miles long. (2) A river in Texas which after a course of about 900 miles falls into the Gulf of Mexico at the town of Matagordo. (3) A river in Argentina, about 620 miles long, which empties into the Atlantic Ocean.

empties into the Atlantic Ocean.

Colorado Beetle, an American species of beetle
(Chrysomēla or Polygramma, or Doryphora decemlineāta), nearly half an inch in length, almost oval, of a yellowish color marked with black spots and blotches, and on the elytra with ten black longitudinal stripes. The wings are of a bloodred color. It works great havoc among the potato crops, and is popularly known as the Potato Bug.

Colorado Surings a city of El

Colorado Springs, a city of El Paso county, Colorado, 65 miles s. of Denver, at the foot of Pike's Peak, with an elevation of 5982 feet. It is surrounded by beautiful scenery, has a delightful climate, and is a popular resort. Pop. 29,078.

Color-blindness, total or partial incapability of discipling colors. Color-blindness has been divided into three grades: (a) Inability to discern any color, so that light and shade, or black and white, are the only variations perceived. (b) Inability to distinguish the nicer shades of the more composite colors, as browns, grays, and neutral tints. (c) Inability to distinguish between the primary colors, red, blue and yellow, or between them and their secondaries, green, purple, orange and brown. Red is the color which the color-blind are most commonly unable to distinguish while yellow is the most easily recognized.

Color-blindness occurs in eyes whose power of vision, as to form and distance, is quite perfect, and may exist unknown to the person affected by it. This defect is common, especially among men. The cause of it in almost every case which has been carefully investigated has been found to be seated in the sensorium, not in the visual apparatus. It will be easily understood that those whose eyesight is thus defective are disqualified for holding various positions.

Colorimeter (kol-o-rim'e-ter), an instrument for measuring the depth of color in a liquid by comparison with a standard liquid of the same tint.

Color Printing, the art of producsigns, cards, etc., in various colors by
means of lithography, printing from
metal blocks, etc. The ordinary methods
are: (1) the chromo-lithographic, in
which a tracing of the original picture, or
the like, is first made, and a copy transferred to as many stones as there are
colors in the original, every color requiring a separate stone. The drawing of
each stone is made to fit in, or register,
with the preceding one, and as the paper
passes through the machine an additional
color is added every time, and thus the
picture is built up color upon color (each
being allowed to dry before the next is
put on) until it is completed. Some
chromos or oleographs may have as many
as 25 or 30 printings or colors. (2) Block
or surface color printing is specially
adapted for book illustrations or similar
work where nicety of detail or rapidity of
production is required. As in chromolithography various printings are necessary; but these, while producing similar
effects, are reduced in number by a method
of printing several tints of the same color
at one operation. Each block, which is
usually of zinc and prepared in the usual
way, is capable of producing three or
more gradations of the same color; the
darkest shade from the normal surface,
lighter shades being got from parts
which have been bitten or corroded in an
almost imperceptible degree—the deepest
corrosions giving, of course, the lightest
shade. When all the tints of one color
as home operation, a second block with gradations, in the same way, is used, registering
as in chromo-lithography, and so on until
the picture is finished.

Colors, MILITARY, the national flag and the flag of the regiment which contains the device and number of the regiment in gold. The colors, when uncased, are entitled to a salute when borne past a guard and by the command-

ing officer and staff when carried past in review and in general by all officers and enlisted men under regulations prescribed enisted men under regulations prescribed by the Army Regulations. Similar cus-toms prevail in the navy. The national flag is raised at sunrise with a gun salute and lowered at sunset with a gun salute— the playing of the "Star Spangled Ban-ner" by the band.

Color-sergeant, a non-commissioned officer in the army who is a member of the regimental staff. There are two color-sergeants to each regiment, who carry and have charge of the national and regimental colors and are escorted by the color-guard. Color-sergeants rank line-sergeants and receive better pay.

Colossæ (kil-os'sē), an ancient city of Asia Minor, in Phrygia, on the Lycus, a branch of the Mæander. It was the seat of one of the early churches of Asia to whom the apostle Paul wrote

of Asia to whom the apostle Paul wrote about 62 or 63 A.D.

Colosseum (kol-o-sē'um), a name given to the Flavian Amphitheater in Rome, a large edifice for gladiatorial combats, fights of wild beasts, and similar sports. It was begun by Vespasian, and finished by Titus, 80 A.D.

The outline of the Colosseum is elliptical, the exterior length of the building being the exterior length of the building being 620 and its breadth 513 feet; it is pierced with eighty openings or vomitaria in the with eighty openings or vomitaria in the ground story, over which are superimposed three other stories, the whole rising perpendicularly to the height of 160 feet. Although two-thirds of the original building have disappeared, it is still a wonderful structure.

Colossians, epistle to the An epistle written by the apostle Paul, when he was a prisoner in Rome. It falls naturally into four parts: (1) introduction and thanksgiving; (2) nature and work of Christ; (3) doctrine; (4) personal matters and salutations. The third chapter is a picture of the Christian life as seen by Paul. It is a plea that, having put off 'the old man,' the Colossians shall live like new men, putting aside all uncharitableness, bearing themselves with meckness and kindness. The probabilities are that Epaphras, of whom the writer speaks, preached first ness. The probabilities are that Epaphras, of whom the writer speaks, preached first to the Colossians and was the means of their conversion. Among other early Christian missionaries whom Paul mentions here are Onesimus and Tychicus, the bearers of the epistle; Luke, 'the beloved physician'; Aristarchus, a 'fellow prisoner'; John Mark, called here Marcus; Barnabus, a landowner of Cyprus, who sold his land and laid the price at the feet of the apostles in Jerusalem, becoming a co-preacher with Paul; and the feet of the apostles in Jerusalem, be-the bowels of infants of the meconium or coming a co-preacher with Paul; and fæcal matter which they contain at birth.

Demas, another fellow laborer who later deserted Paul (2 Tim. iv. 10), lacking the heroic mettle of the great apostle.

Colossus (ko-los'us), in sculpture, a

Colossus statue of enormous magnistatue of enormous magnitude. The Asiatics, the Egyptians, and in particular the Greeks have excelled in these works. The most celebrated Egyptian colossus was the vocal statue of Memnon on the plain of Thebes, supposed to be identical with the most northerly of two existing colossi (60 feet high) on the west bank of the Nile. Among the colossi of Greece the most celebrated was the Colossus of Rhodes, a brass statue of colossi of Greece the most celebrated was the Colossus of Rhodes, a brass statue of Apollo 70 cubits high, esteemed one of the wonders of the world, erected at the port of Rhodes by Chares, 290 or 288 B. C. It was thrown down by an earthquake about 224 B. C. The statue was in ruins for nearly nine centuries, when the Sorse about 224 B.C. The statue was in ruins for nearly nine centuries, when the Saracens, taking Rhodes, sold the metal, weighing 720,900 lbs., to a Jew, about 653 A.D. There is no authority for the popularly-received statement that it bestrode the harbor mouth and that the Rhodian vessels could pass under its legs. Among the colossi of Phidias were the Olympian Zeus and the Athena of the Parthenon; the former 60 ft. high and the latter 40. The most famous of the Roman colossi were the Jupiter of the Capitol, the Apollo of the Palatine Library, and the statue of Nero, 110 or 120 ft. and the statue of Nero, 110 or 120 ft. high, and from which the contiguous amphitheater derived its name of Colosbeen measured at Bamian on the road between Cabul and Balkh, the largest being 173 ft. high and the second 120 ft.

being 173 ft. high and the second 120 ft. Among the modern works of this nature is the colossus of San Carlo Borromeo, at Arona, in the Milanese territory, 60 ft. in height; the 'Bavaria' at Munich, 65 ft. high; the statue of Hermann or Arminius near Detmold, erected in 1875, 90 ft. in height to the point of the upraised sword, which itself is 24 ft. in length; the height of the figure to the point of the helmet being 55 ft.; the statue of Germania, erected in 1883 near Rüdesheim, a figure 34 ft. high, placed on an elaborately sculptured pedestal over 31 ft. high; and Bartured pedestal over \$1 ft. high; and Bartholdi's statue of Liberty presented to the United States by the French nation, and which measures 104 ft., or to the extremity of the torch in the hand of the figure 151½ ft. It is erected on Bedloe's Island in New York harbor. See Liberty Statue. Colostrum (kolos'trum), the first Colostrum creted after giving birth to young. It differs in composition from ordinary milk: has a purgative action, and serves to clear

Colporteur

American manufacturer, inventor of the revolver, was born in Hartford, Conn., and in 1835 secured a patent for his revolving pistol. See Revolver.

Colton (köl'ton), CHARLES CALER, an English writer, born 1780; died

by his own hand at Fontainebleau, 1832. He held the united living of Kew and Petersham, but was eccentric in his manners, extravagant in his habits, and irremediably addicted to gambling and its attendant vices. Bewildered by his pecuniary obligations, he fled to the United States, and after a sojourn there of some years took up his abode in Paris, where he acquired a fortune of \$125,000 by gambling, which was soon dissipated. Through apprehension of a surgical opera-He wrote tion he committed suicide. several satirical poems, Hypocrisy, Napoleon, etc.; but his most remarkable work is Lacon, or Many Things in Few Words.

Colt's-foot, Tussilago Farjara, a weed of the order Composite, the leaves of which were once much employed as a remedy for asthma and coughs. The name is given from the leaf somewhat resembling the foot of a colt, being broad and heart-shaped; the flowers are yellow.

Colt's Revolver. See Revolver.

Coluber (kol'ū-ber), a genus of non-Coluber (Rol'u-ber), a genus of non-cludes, besides several N. American snakes the Coluber Esculapti, common in the neighborhood of Rome, and re-garded as the serpent which was sacred to Esculapius, the god of medicine. To the same family belongs the common ringed snake of Britain (Tropidonotus natriw), which attains a length of 3 or 4 feet.

Columba (ko-lum'ba). See Calumba.

Colum'ba, St., a native of Ireland (Gartan in Donegal), born in 521; died in 597. In 545 he founded the monastery of Derry, and subsequently

(kol-por-teur'), a French preaching the Christian faith and foundterm now naturalized in ing monasteries, all of which he made the United States, and appropriated to a class of men always, or most commonly, the island of Hy. The Columban curve subsidized by societies or associations was in some points of doctrine and cerewith the view of disseminating religious monial opposed to that of Rome, to which literature by carrying about publications it owed no allegiance. Shortly before his for sale, generally at reduced rates.

Colt (költ). Samuel (1814-62), an well-known life of St. Columba, Vita Sancti Columba written by St. Adamman. Abbot of Iona.

Columbanus (kol-um-bā'nus), SAINT, or SAINT COLUMBAN, a missionary and reformer of monastic life. born in Ireland apparently about 540, became a monk in the Irish monastery of Benchor (Bangor), went through England to France with twelve other monks to preach Christianity, and founded the monasteries of Annegray, Luxeuil (590), and Fontaine in Burgundy. His rule, which was adopted in latter times by many monasteries in France, commands blind obedience, silence, fasting, prayers and labor, much more severe than the Benedictine rule, and punishes the smallest offenses of the monks with stripes. He retained also the old ecclesiastical cus-He retained also the old ecclesiastical customs of the Irish, among which is the celebration of Easter at a different time from the Roman Church. He appears to have remained at Luxeuil for nearly twenty years. He then went among the heathen Alemanni, and preached Christianity in Switzerland. About 612 he passed into Lombardy, and founded the monastery of Bobbio, in which he died in 615. His writings comprise his monastic rule, sermons, some poems and ecclesiasrule, sermons, some poems and ecclesias-tical treatises. His life was written by Abbot Jonas, a successor in the abbacy of Bobbio.

Columbarium (kol-um-bā'ri-um), in Roman antiquities, a place of sepulture for the ashes of the dead after the custom of burning the dead had been introduced. Columbaria consisted of arched and square-headed recesses formed in walls in which the cinerary urns were deposited, and were so named from the resemblance between these recesses and those formed for the doves to build their nests in a dove-cot.

Columbia (ko-lum'bi-a), the capital of
South Carolina, situated on an elevated plain on the left bank of the Congaree, 129 miles N. w. of Charleston. It contains some fine public buildings. Among the educational institutions are established many churches in Ireland, the South Carolina University, founded About 563 he landed in the island of Hy, in 1804, and the Presbyterian Theological About 563 he landed in the island of Hy, in 1804, and the Presbyterian Theological now called Iona, and founded a church. Seminary. The principal manufactures About 565 he went on a mission of conarce cotton and fertilizers; in addition to version among the northern Picts, and which there are sash and door factory, traversed the whole of Northern Scotland iron works, foundries and machine shops.

miles w. by n. of St. Louis. It is the seat ar area of 298,000 square miles, and has of the University of Missouri, of the state Agricultural College and government Experiment Station. The principal industries are coal mining and the manufacture of shoes. Pop. 9802.

Columbia, a city of Lancaster Co., Missouri, and the manufactures, including boilers, lengines, iron, machinery, textiles, wagons, and other manufactures, including boilers, lengines, iron, machinery, textiles, wagons, and state governors and prominent civil imposing ceremonials, dedicating the Columbia, a city, county seat of Columbia, a city, county seat of Columbia, Maury Co., Tenn., on Duck River, 47 miles s. of Nashville. It has great architectural work needed causing cottob, pencil, and flour mills and other dmanufactures, extensive phosphate interests, and a large mule market. It is the seat of a national arsenal. Pop. 10,000. the willdings, were covered with a white Columbia, of country on the east bank of the Potomac River, about 120 miles from its mouth, surrounded on three sides by Maryland, and forming a very largely attended, the receipts being neutral district for the seat of the United States government. It has an area of 298,000,000. One of the buildings were covered with a white control of the world sent exhibition on the Chatta-former city, is now part of Washington, which has been the national capital since 1800. Georgetown, a former city, is now part of Washington and section retained. The affairs of the district and of Washington are administeric extraction, the annual receipts exceeding by three commissioners directly under Congress. Pop. 331,0690. The condition in the cert of the state, the condition in New York City, established in white exceptional railway facilities. The struction in New York City, established in white exceptional railway facilities. The struction in New York City, established in white exceptional railway facilities. The struction in New York City, established the tember of the cert for the struction of th

The city was set on fire while occupied by lumbia, but mainly in the United States, General Sherman's army in 1865 and a where it receives two large tributaries, large part of it burned. It was made the Clarke's Fork and Snake River. Farther down it turns abruptly to the west and Columbia, a city, county seat of forms the boundary between the States miles w. by n. of St. Louis. It is the seat an area of 298,000 square miles, and has of the University of Missouri, of the state a length of about 1400 miles.

columbia University, tional institution in New York City, established in 1754, and giving courses in literature, science, medicine, law, etc. In 1916 the total number of students in all departments, including extension teaching and institution, institution for the blind, the summer school, was 18,176. Affiliated with it are Barnard College, Teachers' Catholic cathedral, etc. Educational includes, and the College of Pharmacy. In 1918 women were admitted to the Medical School for the first time. Columbia River, or Obegon, a ical College, Ohio Agricultural College, river of the United States, flowing into the Pacific Ocean, very extensive trade, and the manufacturing at the base of the Rocky Mountains in British Columbia. It has a very bus suffered heavily in the Ohio floods of winding course, partly in British Co- 1913. Pop. 208,737.

Columbus, a city of Mississippi, on the Tombigbee River, in a rich alfalfa region. It has large cotton, cottonseed-oil, and other mills, and several institutions, including the Mississippi Industrial Institute. Pop. 8988.

Columbus, a city, county seat of miles w. of Omaha. It has lumbering and other interests. Pop. 5014.

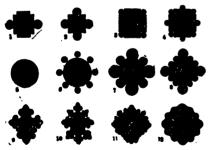
daugnter of Bartolommeo de Fersatello, a distinguished navigator. He had gradually come to the conclusion that there were unknown lands belonging to Eastern Asia separated from Europe by the Atlantic. While the Portuguese were that there must be a shorter way by the west. He applied in vain to Genoa for assistance, and equally fruitless were his endeavors to interest John II of Portugal in the enterprise. He then determined to

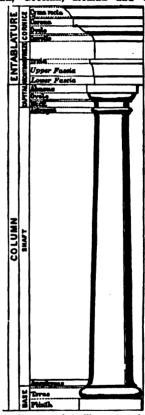
Columbus, a city, county seat of Bartholomew Co., Indiana, on of which Guanahani forms one. Un
the White River, east branch, 41 miles landing Columbus threw himself upon
s. by E. of Indianapolis. Its manufactures include wood pulleys, leather,
tures include wood pulleys, leather,
threshing and sawmill machinery, tools,
round him in silent astonishment, and
his men, ashamed of their disobedience his men, ashamed of their disobedience and distrust, threw themselves at his feet, begging his forgiveness. Columbus, drawing his sword planted the royal standard, and in the name of his sovereigns took possession of the country, which, in memory of his preservation, the collections of the country, which, in memory of his preservation, and the sailed has been sailed. he called San Salvador. He then sailed in search of other lands, and discovered Cuba, St. Domingo, and several other of the West India Islands. Being so far and other interests. Pop. 5014.

Columbus, ish, Cristoval Colon; in Hayti, left some of his men there, and Italian, Cristoforo Colombo, which is set out on his return to Europe, where his real name), was born in Genoese territory about 1448; died at Valladolid, In 1493 he set out on his second great Spain, in 1506. His father, Domenico voyage from Cadiz, with three large ships Colombo, a poor wool-comber, gave him a careful education. He appears to carrying 1500 men. He discovered the have gone to sea at an early age and to have navigated all parts of the Medital Carlying 1500 men. He discovered the Straits of Gibraltar. In 1470 we find him at Lisbon, where he married the fortified town, which he called, in honor daughter of Bartolommeo de Perestrello, a distinguished navigator. He had gradually come to the conclusion that visited Jamaica, and returning after a there were unknown lands belonging to voyage of five months, worn down with gradually come to the conclusion that visited samates, and returning after a there were unknown lands belonging to voyage of five months, worn down with Eastern Asia separated from Europe by fatigue, found to his great joy that his the Atlantic. While the Portuguese were brother Bartolommeo had arrived at seeking to reach India by a southeast Isabella with provisions and other supcourse around Africa he was convinced plies for the colony. Meanwhile a genthat there must be a shorter way by the eral dissatisfaction had broken out among his companions, who, instead of the ex-pected treasures, had found hardships and labor. This and news of calumnies being labor. This and news of calumnies being set on foot against him at home induced in the enterprise. He then determined to set on foot against him at home induced apply to the Spanish court; and after him to return to Spain, where his many disappointments he induced Ferpresence and probably also the treasure dinand and Isabella to equip and man he brought silenced his enemies. In May, three vessels for a voyage of discovery. 1498, he sailed with six vessels on his It was early in the morning of Friday, third voyage. Three of his vessels he on August 3, 1492, that Columbus sent direct to Hispaniola; with the three set sail from the port of Palos, and after others he took a more southerly directailing for two months the expedition tion, and having discovered Trinidad and narrowly escaped failure. The variation the continent of America, returned to of the needle so alarmed the crews that Hispaniola. His colony had now been they were on the point of breaking out removed from Isabella, according to his of the needle so alarmed the crews that Hispaniola. His colony had now been they were on the point of breaking out removed from Isabella, according to his into open mutiny, and he was obliged orders, to the other side of the island, to promise that he would turn back if and a new fortress erected called St. three more days brought no discovery. Domingo. Columbus found the colony in On the third day (Oct. 12, 1492) the island of Guanahani or San Salvador was tranquillity. His enemies, in the mean-sighted, which Columbus believed to belong to Eastern Asia and to be connected with India—a belief which he carried with India—a belief which he carried with him to his grave. Hence the misself independent, and Columbus was not with him to his grave. Hence the misself independent, and Columbus was not only displaced, but Francisco de Bobataken name of Indians applied to the dilla, a new governor who had come from natives of America, and that of West Spain, even sent him to that country in chains. On his arrival (in 1500) orders classical architecture columns have comwere sent directing him to be set at libmonly to support an entablature consistenty and inviting him to court, but for his ing of three divisions, the architecture, injurious treatment he never got redress, frieze and cornice, adorned with moldinging great promises were made. After lings, etc. The accompanying cut will some time he was able to set out on his illustrate these and other terms. Colfourth and last voyage (1502) in four umns are distinguished by the names fourth and last voyage (1502) in four umns are distinguished by the names alender vessels supplied by the court. In this expedition he was accompanied by the styles of architecture to which his brother Bartolommeo and his son Fernando. He encountered every imaginable disaster from storms and shipwreck, and returned to Spain, sick and exhausted, in 1504. The death of the queen soon followed, and he urged in vain on Ferdinand the fulfillment of his promises; but after two years of illness, humiliations and despondency, Columbus died at Valladolid. His remains were transported, according to his will, to the city of St. Domingo, but on the cession of Hispaniola to the French they were removed in January, 1796, to the cathedral of Havana in Cuba. In 1899 they were removed, with much ceremony to Create Strain. they were removed, with much ceremony to Granada, Spain, though there is some question as to these being the correct remains.

Columella (kol-u-mel'a), Lucius Ju-NIUS MODERATUS, a Roman writer on agriculture; born at Cadiz in Spain; lived about the middle of the first century after Christ, and wrote twelve books, which are still extant, one of which, on gardening (De Re Rustica), is in warmen. is in verse.

columna) Latin, Column (kol'um; Latin, in architecture, a round pillar, a cylindrical solid body set up-right and primarily intended to support some superincumbent weight. A column has as its most essential portion a long





Column (Tuscan order), illustrating the terms applied to the several parts.

Sections of Gothic Columns. 1-4, South Gothic. 5-12, North Gothic.

solid body, called a shaft, set vertically by some peculiarity of position, of conon a stylobate or on a congeries of struction, of form, or of ornament, as moldings which forms its base, the shaft being surmounted by a more or less Columns are chiefly used in the construction or adornment of buildings. They

have also been used, however, singly for of Mexico. They were excellent horse-various purposes, especially for monumen, and extremely warlike, but their ments. See *Corinthian*, *Dorio*, *Ionic*, numbers are now insignificant. Some of

Gotkic, etc.

Column, in military tactics, a formation in the western part of the former tion of troops drawn up in Indian Territory, now Oklahoma. deep files, showing a small front; as distinguished from line, which is extended in front and thin in depth. They Honduras, the capital of a department of the content of the content of the content of the capital of a department of the capital of th are said to be close or open, according the same name, situated on the southern to the intervals between the battalions, border of the plateau of Comayagua, regiments, etc., of which they are com- about midway between the two oceans. posed. Sometimes the name column is It is a bishop's see and has a cathedral. given to the small army, especially when Pop. about 8000.

Colymbus (ko-lim'bus), the diver gecivilized races.

nus of birds, giving name Combaconum (kom-ba-kō'num), a
to the family Colymbidæ, which includes town of Hindustan,

tion of the northern hemisphere containable of Physiology (1834). Physiology of tion of the northern hemisphere containabout forty stars visible to the naked Physiological and Moral Management of eye, situated between Bootes and the tail

colure (ko-lūr'), in astronomy, one of the ecliptic.

Colure (ko-lūr'), in astronomy, one of tortoise-shell, ivory, horn, of t

also the Grebes.

Colza Oil (kol'za), an oil much emplement of the ployed for burning in Chola dynasty, and is one of the most analyses expressed from the seeds of Brassica It has a great many well-endowed Hindu campestris oloiféra, and from allied plants of the cabbage family. It is yellowish brown, and has little or no smell. It becomes thick and solid only at very low temperatures.

Compa (ko'ma). in medicine a state of

Coma (koma), in medicine, a state of combe (kom), Andrew, a noted physomerous diseases, as apoplexy; from born at Edinburgh in 1797; died in 1847. narcotics, as opium; from accident or lie was educated at the Edinburgh High injury to the brain; or from excessive School and afterwards for the medical cold. When accompanied with delirium profession at the university there. In and the person's eyes are wide open it 1899, he controlled to the medical profession at the university there. coid. When accompanied with delirium and the person's eyes are wide open, it is called coma vigil.

Coma, the luminous, nebulous, hair-like substance surrounding the nucleus of a comet. Coma Bereni'ces, a small constellation of the northern hemisphere containing about forty stars visible to the maker.

Comacchio (ko-mak'ki-ō), a fortified town, Italy, province of Ferrara, amid unhealthy marshes, about 2 miles from the Adriatic, with productive fisheries. It is the seat of a hishopric. Pop. 7944.

Comana (ko-ma'na), an ancient city was the first to the Signet. He was admitted a member of the Society of Writers to the Signet. He was the first to introduce the doctrines of phrenology into Great Britain; and antiquity as the seat of the solemn worship of Ma (the moon goddess). Its site has not been identified.

Comanches (kō-man'chez), an Americal countries of popular adducation. Comanches (kō-man'chez), an Amereducation and social progress; and was ican Indian tribe for among the first to advocate compulsory merly roaming through Texas and part education and the establishment of a

board of health. Besides the Constitution pounds which they form with each other of Man, published in 1828, and which has and with nitrogen, have received the had an enormous circulation, he is name of supporters of combustion, while the author of A System of Phrenology to the latter the term combustibles has the author of A system of rarenousy (1825); Lectures on Popular Education (1833); Moral Philosophy (1840); The Life and Correspondence of his brother, Dr. Andrew Combe (1850); Principles of Criminal Legislation and Prison Discipline Investigated (1854); and the Relation between Science and Religion 11857. (1857).

Combe, WILLIAM. See Coombe, William.

Combretaceæ (kom-bre-tā'se-ē). arborescent polypetalous exogens, tropical

flammable substances; or the union of an inflammable substance with oxygen or tional reformer, born in 1592; died in some other supporter of combustion, attended with heat and in most instances ravian Brethern, and suffered much in the
with light. In consequence of the combination of the carbon in fuel with the
oxygen of the air being the universal most important of which are Janua Linmethod of getting heat and light, and as
when the action takes place the tuel is sualium Rictus (1658). His high repusaid to burn or undergo combustion, the
latter term has been extended to those land, Sweden and Hungary to aid in
cases in which other bodies than carbon organizing public instruction: and the —for example, phosphorus, sulphur, above works have metals, etc.—burn in the air or in other lated and imitated. metals, etc.—burn in the air or in other lated and imitated. substances than air—for example chlorine. Though the action between the gas and the more solid material, as coal, wood, charcoal, of whose combination combustion is the result, is mutual, respond with parabolic curves, or in a the one having as much to do with the few instances in elliptical orbits of great process as the other, yet the former, as eccentricity. The former, after being oxygen, chlorine, iodine, and the com-

been assigned.

ration been assigned.

; The Spontaneous Combustion is the igniother, tion of a body by the internal developles of ment of heat without the application of
Discie Reamong heaps of rags, wool and cotton
ligion when sodden with oil; hay and straw
when damp or moistened with water; and
Wilcoal in the bunkers of vessels. In the
first case the oil rapidly combines with
SIR the oxygen of the air, this being accompanied with great heat: in the second Combermere (kom' ber-mer), SIE the oxygen of the air, this being accompanied with great heat; in the second case the heat is produced by a kind of the fermentation; in the third by the pyrites tered the army in 1790, and took part in the Mysore war against Tippoo Saib in 1798 and 1799. He served with distinction through the Peninsular war, and was commander of the allied cavalry after 1810. In 1814 he was created Baron application of fire. It is said to have combermere. In 1825 he was appointed commander-in-chief in India. He was latterly Constable of the Tower, and a field-marshal.

Somewiations and Comedietta (komedietta), a dragation of the companied with great heat; in the second case the heat is produced by a kind of the coal rapidly absorbing and combining with the oxygen of the air, this being accompanied with great heat; in the second case the heat is produced by a kind of the coal rapidly absorbing and combining with the oxygen of the air, this being accompanied with great heat; in the second case the heat is produced by a kind of the coal rapidly absorbing and combining with the oxygen of the air, this being accompanied with great heat; in the second case the heat is produced by a kind of the coal rapidly absorbing and combining with the oxygen of the air, this being accompanied with great heat; in the second case the heat is produced by a kind of the coal rapidly absorbing and combining with the oxygen of the air, this being accompanied with great heat; in the second case the heat is produced by a kind of the oxygen of the air, this being accompanied with great heat; in the second case the heat is produced by a kind of the oxygen of the air, this being accompanied with great heat; in the second case the heat is produced by a kind of the oxygen of the air, this being accompanied with great heat; in the second case the heat is produced by a kind of the oxygen of the air.

Combination. See Permutations and Comedietta (kom-ë-di-et'a), a dra-Combinations. (kom-bre-ta'se-e), an comedy class, but not so much elaborated. order of shrubby or **Comedy** (kom'e-di), a dramatic comtalous exogens, tropical arborescent polypetalous exogens, tropical shrubs or trees, with leaves destitute of stipules, and long, slender stamens. Some of them are astringent and used for taning (myrobolans), and the kernels of others are eatable. They are chiefly valued for their brightly-colored, showy iliness, and the termination of its plot or valued for their brightly-colored, showy intrigue being happy; and from farce by flowers, especially in the genus Combustion (kom-bust'yun), the operation of fire on inflammable substances; or the union of the continuant of the

cases in which other bodies than carbon organizing public instruction; and the—for example, phosphorus, sulphur, above works have been frequently trans-

longer time, disappear into space apbetween seventy-five and seventy-six parently never to return; the latter re-years. Their distances from the sun, turn to us periodically. Some comets when in perihelion, or when nearest to are only visible by the aid of the telestatal luminary, had been nearly the same, cope, while others can be seen by the being nearly six-tenths of that of the naked eye. In the latter case they earth, and not varying more than one-usually appear like stars accompanied sixtieth from each other. The inclination with a train of light, sometimes short of their orbits to that of the earth had and sometimes extending over helf the also been nearly the same between 17. with a train of light, sometimes short of their orbits to that of the earth had and sometimes extending over half the also been nearly the same, between 17° sky, mostly single and more or less and 18°; and their motions had all been curved, but sometimes forked. In a retrograde. Putting these facts together, comet which appeared in 1744 the train Halley concluded that the comets of was divided into several branches, spread1456, 1531, 1607 and 1682 were reaping out from the head like a fan. The pearances of one and the same comet, train is not stationary relatively to the which revolved in an elliptic orbit round head, but is subject to remarkable movethe sun, performing its circuit in a period ments. The direction in which it points varying from a little more than seventyits always convosite to the sun, and as the six years to a little less than seventy-five. ments. The direction in which it points varying from a little more than seventy-is always opposite to the sun, and as the six years to a little less than seventy-five; comet passes its perihelion the train changes its apparent position with extraordinary velocity. The head of the comet is itself of different degrees of year measured according to that of the luminosity, there being usually a central core, called the nucleus, of greater brilliancy than the surrounding envelope, called the coma.

Comets were long regarded as supernatural objects, and usually as portents of impending calamity. Tycho Brahe does not be first who expressed a rational opinion on the subject, coming to the conclusion that the comet of 1577 was a heavenly body at a greater distance from the earth than that of the moon. The swell as his own observation on the comet of 1680, led Newton to conclude that the orbits of the comets must, like those of the planets, be ellipses, having the sun having their aphelions, or greater distances from the sun, far remote in the regions of space. This idea was taken in the previous to 1680. The results were very interesting. With but few stere the sun, till April 13, 1759, being thirty days and form of its path were also calculated. Along tances from the sun, far remote in the regions of space. This idea was taken in the previous to 1680. The results were very interesting. With but few stered to the planets were very interesting. With but few stered as the true one), the mean diseased on these comparisons and feductions the comet of the sun far moved in the opposite direction to the planets. While Halley was engaged on these comparisons and a wonderful resemblance between it and all. In 1835 it again returned, being a wonderful resemblance between it and all. In 1835 it again returned heims. is always opposite to the sun, and as the six years to a little less than seventy-five; was engaged on these comparisons and does not belong to that system; and as deductions the comet of 1682 made its this is determined of one comet, analogy appearance, and he found that there was points it out as being the case with them a wonderful resemblance between it and three other comets that he found recorded—the comets of 1456, of 1531 and of 1607. The times of the appearance of the year in Europe, and through of these comets had been at very nearly a great part of spring in 1836 in the regular intervals, the average period being southern hemisphere. It returned again

Comets Comets

small dimensions, wholly within the orbit each other according to any law that has of Jupiter; its period is 1260 days, or been discovered. From 1299 to 1532 all about three years and three-tenths. It that are mentioned were retrograde; and has been frequently observed since. An-five that were observed from 1771 to has been frequently observed since. Another comet, the history of which is of the utmost importance in the latest theories regarding the connection of these well-known short-period comet Encke's were observed.

The paths in which comets move are not, like those of the planets, all nearly in

in 1910, but on this occasion had lost 50° to 80°, 39; and 80° to 90°, 8. The most of its brilliancy and was barely comets that have been observed have made observable with the naked eye, much to the disappointment of those who had been parts of the solar system; 24 have passed awaiting its return with expectations of within the orbit of Mercury, 47 within a striking spectacle.

The comet denominated Encke's comet, Earth, 73 within that of Mars, and the which has made repeated appearances, whole within that of Jupiter. Of a was first observed in 1818, and was hundred or thereabouts, mentioned by identified with a comet discovered in 1786, Lalande, about one-half have moved from also with a comet discovered in 1786 west to east, in the same direction as the The comet denominated which has made repeated appearances, which has made repeated appearances, was first observed in 1818, and was hundred or thereaboute, also with a comet observed in 1786, Lalande, about one-half have moved from Lalande, about one-half have moved from the same direction as the by Miss Herschel in the constellation planets, and the other half in the opposite direction. The direct and retrograde ones do not appear to follow that has the same direction of comparatively regrade ones do not appear to follow that has the same direction as the planets, and the other half in the opposite direction. The direct and retrograde ones do not appear to follow that has the same direction as the planets, and the other half in the opposite direction. five that were observed from 1771 to 1780 were all direct.

That the comets are formed of matter

theories regarding the connection of these of some sort or other we know from the bodies and the periodic showers of shooting-stars, is one known as Biela's comet, discovered in 1826. It revolved about planets upon them; but as their action of the sun in about 6¾ years, and was even planets upon them; but as their action the sun in about 6¾ years, and was even perceptible, we are led to the conobserved in 1772 and in 1806. Its reclusion that they are not bodies of the turns were noted in 1832, 1839 and 1845. same density or magnitude as even the In 1846 it divided into two, returned smallest and rarest of the planets. They double in 1852, but has not since been are probably groups of meteoric masses, seen, the supposition being that it has varying in size. One theory of the nature been dissipated, and that it was represented by a great shower of meteors that ejected millions of years ago from the inverse seen in Nov. 1872. One of the most terior of suns, or planets in a sunlike remarkable comets of recent times was state. When a comet is viewed through a that known as Donati's, discovered by telescope of considerable power there apport. Donati, of Florence, in 1858. It was pears a dense nucleus in the center of the very brilliant in the autumn of that year, and on October 18th was near coming of which the external parts are composed; of some sort or other we know from the Dr. Donati, of Florence, in 1858. It was pears a dense nucleus in the center of the very brilliant in the autumn of that year, luminous and apparently vaporous matter and on October 18th was near coming of which the external parts are composed; into collision with Venus. The year and the opacity of this nucleus varies in 1881 was remarkable for the number of different comets. On its first appearance, comets recorded. During that year no and again when it recedes, the luminous fewer than seven comets, including the part of the comet is faint and does not expect the part of the comet is faint and does not expect the part of the comet is faint and does not expect the part of the comet is faint and does not expect the part of the comet is faint and does not expect the part of the comet is faint and does not expect the part of the comet is faint and does not expect the part of the comet is faint and does not expect the part of the comet is faint and does not expect the part of the comet is faint and does not expect the part of the comet is faint and does not expect the part of the comet is faint and does not expect the part of the comet is faint and does not expect the part of the comet is faint and does not expect the part of the comet is faint and does not expect the part of the comet is faint and does not expect the comet is tend far from the nucleus; but as it moves on towards the perihelion the brightness The paths in which comets move are increases, and the ruminous matter not, like those of the planets, all nearly in ens into a train, which, in some cases, the same plane as the orbit of the earth, has extended across a fourth of the table at all an entire circumference of the heaven. The the same plane as the orbit of the earth, has extended across a fourth of the but are inclined to that orbit at all angles. Leaving out the small planets that entire circumference of the heaven. The gles. Leaving out the small planets that most remarkable discovery of recent times have recently been discovered, all the others are contained within a zone extending course of some of them with the orbit of only 7° on each side of the earth's orbit; certain showers of shooting stars. This and, with the exception of Mercury (by was first demonstrated by the Italian far the smallest of the old planets), they as first demonstrated by the Italian far the smallest of the old planets), they agreement between the orbit of the great of the comets are at all possible angles; comet of 1862 and that of the star-shower and the number increases with the angle, seen annually about August 9th and of the comets are at all possible angles; comet of 1862 and that of the star-shower and the number increases with the angle, seen annually about August 9th and so that they approximate to an equal distort. It has since been demonstrated tribution in all directions round the sun that every meteoric stream follows in as a center. Taking all the orbits of the train of some comet large or small, which the inclinations have been ascerwhich either exists now or has been distained, it has been found that of every sipated, as Biela's comet was, leaving hundred the inclinations are as follows: only its meteoric trail to show where from 0° to 30°, 26; 30° to 50°, 27; it once traveled; and that every comet is

followed or preceded by a train of meteors, extending over a greater or less por-tion of the comet's orbit.

portant recent comet appearances have

Besides the very interesting Halley comet, which, true to the period assigned to it, re-appeared in 1910, the most im-

been that known as Pons-Brooks, which made its re-appearance in 1884 and has a periodicity of about seventy-one and one-a half years, or about five years less than sentence into divisions or members ac-Halley's; the Westphal, which last ap-peared in 1913, with a period of slightly a comma is the smallest enharmonic inter-over sixty-one years; the Olbers, in 1887, val. being the difference between a major its period being about seventy-two and a minor one-half years. Those four are of what is ratio 80:81. called the Neptune 'family,' and describe elliptic orbits. Besides the Biela comet. whose re-appearance occurred last in 1852, but which has failed to appear according to the periodicity established, another comet, known as the Brorson, seems to have been lost. It last appeared in 1879 and has been looked for in vain since that year. It is suggested that in 1880 its orbit intersected that of Denning II near the orbit of Jupiter and that it underwent such perturbation as materially to alter its orbit and period. Almost every year a number of short period comets are discovered. In April, 1916, Wolf discovered at Heidelberg a new comet with a periodicity of nearly eight years; it reached its perihelion in June, 1917. Late in November, 1916, Metcalf discovered his fourth comet, but the first discovery of that year was due to Neujiman, on February 24, who sighted a comet of about the eleventh magnitude and five years' term. See Birla's, Donati's and Halley's Comets. Comfrag (com'fre), a name given to such perturbation as materially to alter (com'frē), a name given to several European and Asiatic plants of the genus Symphyium, natorder Boraginacee. The common comfrey, S. officinale, is found on the banks of rivers and ditches. Its root abounds in mucilage, which is useful in irritations of the throat, intestines and bladder. Comiso (kō-mē'sō), a town of Sicily, province, Syracuse, 13 miles w. of Ragusa. Pop. 21,873. Comitia (kō-mish'i-a), with the Ro-muns, the assemblies of the people in which such public business was people in which such public business was transacted as the election of magistrates, the passing of laws, etc. These were of three kinds: (1) The comitia curiata, or assemblies of the patrician houses or populus in wards or curiac. (2) The comitia centuriata, or assemblies of the whole Roman people, in divisions called centuries. (3) The comitia tributa, or assemblies of the plebein tributa only.

assemblies of the plebeian tribes only.

Comity of Nations (comitae gentium), a phrase adopted in international law to denote that kind of courtesy by which the laws and institutions of one state or country are recognized and given effect to by the government of another.

Comma (kom'a), in punctuation, the point [,] denoting the shortest pause in reading, and separating a val, being the difference between a major and a minor tone, and expressed by the

Commander (kom-an'der), a chief; the officer of an army or any division of it. The office of commander-in-chief is the highest staff appointment in the army. In foreign armies title is sometimes not commander-in-chief, but field-marshal commander-in-chief, the difference being that the former is appointed by patent for life, while the latter is appointed by a letter of service, and holds office only during the pleasure of the sovereign. In the United States the President is declared by the Constitution to be commander-in-chief of the army and navy. In the navy, a commander ranks a lieutenant. In matters of etiquette he ranks with a lieutenant-colonel in the army.

Commandeering (kom-an-dering), a term used the Boers in the British-Boer war to designate the seizing of supplies, cattle, etc. Commandery (kom-an'de-ri), a term used in several senses in connection with some of the military and religious orders, as the Templars, Hospitalers, etc. In certain religious orders, as those of St. Bernard and St. Anthony, it was the district under the authority of a dignitary called a com-

mander.

Commandments. See Decalogue.

Commencement (kom-ens'ment), in the universities and colleges of the United States, also in that of Cambridge, England, the day when bachelors and masters of arts and doctors receive their degrees.

Commendam (kom-en'dam), the administrative or provisional management of a benefice during a vacancy. The person entrusted with the management was called commendator. The grant of ecclesiastical livings in this way gave rise to great abuses. In England the term was applied to a living retained by a bishop after he had ceased to be an encumbent. By 6 and 7 Wil-

sense as memoirs, for a narrative of particular transactions or events, as the Commentaries of Casar. (2) A series

of the locality; and to attain by combination advantages which could not be the Meuse. 21 miles E. of Bar-le-Duc. reached by private enterprise, etc. These Pop. (1906) 5622.

liam IV the holding of livings in commendam was, for the future, abolished. Commensal (kom-en'sal; L. con. and mensa, a table), a messmate; applied in zoology to animals who live on or in other animals for part or the whole of their life, simply sharing the food of their host without cial affairs among the merchants of different parasitic on him: thus the peacrabs live within the cavity of shellfish, and find their food in the water introduced for the benefit of their host.

Commensurable (kom-en'sur-a-bl), the law which regulates commercated affairs among the merchants of different countries, or among merchants generally. It is derived from the diffant first generally. It is derived from the diffant code of their host. The imperial code of Rome, international law, and the custom of merchants. Lord Mansfield (1704-93) was given to such quantities or magnitudes the first great exponent of commercial as can be measured by one and the same law in Britain. In this country the term common measure. as can be measured by one and the same law in Britain. In this country the term common measure. Commensus ble numis applied to that system of laws which bers are such as can be measured or refers to mercantile contracts, and is divided by some other number without based upon the custom of merchants. The principal subjects embraced within it are the laws of shipping, including Commentary (kom'en-tar-i), a term that of marine insurance; the law of m sory notes; and the law of sales.

Commercial Travelers, salesmen who travel or collection of comments or annotations, in the interest of trading houses or These may be in the form of detached manufactories. Formerly merchants from or collection of comments or annotations. These may be in the form of detached notes or in a series of remarks written in connected form.

Commentry (kom-män-trē), a town of France, dep. of Allier, 8 miles 8. E. of Montluçon, in the midst of a vast coal-field, to which the town owes its prosperity. Pop. 7581.

Commerce (kom'ers), the interchandise, or property of any kind tween countries or communities; trade; trades has grown greatly within recent States has grown greatly within recent canneated the high total of \$910,000,000.

The manufactured goods exported reached the high total of \$910,000,000.

Commerce, Department of the United States government, created in the United States government, created in property of the United States government, created in phrase. 'most favorable granted under any similar treaty. The commercial interests of the country, and first treaty of commerce made by England until the creation of the Department of with any foreign nation was entered into with the Flemings in 1272: the second until the creation of the Department of with any foreign nation was entered into Labor in 1913 had charge of the labor with the Flemings in 1272; the second interests. Its head official is a member was with Portugal and Spain in 1308. A of the President's Cabinet.

Commerce, Chamber of, a board chosen from among the merchants and traders of a city to protect the interests of commerce; to lay before the legislature the views of their members on matters affecting commerce; to and a number of the European nations.

Commination (kom-i-nā'shun), an a diocese, or one entrusted with the per-office in the liturgy formance of the duties in the bishop's of the Church of England, appointed to absence. 2. In the army a term applied be read on Ash Wednesday or on the first to officers charged with furnishing pro-day of Lent, containing a recital of God's visions, etc., for its use. anger and threatenings towards sinners.

Commines, or Comines (kō-mēn), two towns, one in France, the other in Belgium, on opposite sides executors to deceased persons leaving performed a single town, which was fortified and had a castle, in which lilip de Commines was born. Pop. of French Commines, 8000; of Belgian Commines, 6000.

Commines (kō-mēn), Philippe De, Commines (kō-mē

Commines, 6000.

Commines (kō-mēn), Philippe De, French writer and statesman, born in 1445 at Commines; died in 1509. He became confidential adviser of Charles the Bold, Duke of Burgundy, but in 1472 he passed into the service of Louis XI, who loaded him with marks of favor. After the death of Charles the Bold, posterior of the duply Bold Louis took possession of the duchy of Burgundy, sent Commines there, and soon after appointed him amount to Florence. He was afterwards sent by Louis to Savoy, for the purpose of seizing the young Duke Philibert, and of placing him entirely under the guardianship of the king, his uncle. In 1483 Louis XI died, and next year Commines attended Charles VIII in his invasion of Italy, and served him in a diplomatic capacity. Soon after that date he began capacity. Soon after that date he began is fitting her out for service after she has been laid up. capacity. Soon after that date he began to write his *Memoirs*, valuable as contributions to the history of his times. The first edition was published at Paris between 1523 and 1528. He relates in them the events which occurred during by, his life, and in most of which he had an active share, in lively, natural language, and displays everywhere a correct judgment, acute observation, and a profound knowledge of men and things.

Commissariat (kom-i-sā'ri-at), the depart ment of an acute where duties conict in acute in the control of an acute where duties conict in acute.

army whose duties consist in supplying transport, provisions, forage, camp equipage, etc., to the troops; also, the body of officers in that department. In the British army the commissariat and transport are under the Ordnance Store Department, with two commissaries-general and a number of deputy-commissaries-general, assistant commissaries-general, etc. In the United States army the Sub-

ang a person with an office or certain authority.—A certificate issued by authority by which a military officer is constituted; as, a captain's commission.—A body of persons joined in an office of trust, or their appointment; as, a building commission.—Brokerage, allowance, or compensation made to a factor agent. or compensation made to a factor, agent, etc., for transacting the business of another; as one per cent. commission on sales.—Commission of bankruptcy, a commission appointed to investigate the facts

a method of municipal government and since applied successfully in New Orleans and many other American cities. Its purpose is to conduct the business affairs of cities on business principles and to do away with the system of political control and patronage. Usually five prominent business men of the city are elected as heads of the several municipal departments, and the manage-ment of affairs put under their care, the citizens retaining the right of recall of these officials from office if they prove incompetent or dishonest. The system, when fully tried has proved desirable when fully tried, has proved desirable financially and otherwise. In 1912, 207 cities in 34 states had commissions.

etc. In the United States army the Subsistence Department has one brigadiergeneral (commissary-general of subsistence), two colonels, three lieutenantcolonels, eight majors and twelve captains.

Commissary

(kom'i-sar-i).—1. As states they are county officers, and their
an ecclesiastical term,
purisdiction is co-extensive with the county. In others they are town or township
spiritual jurisdiction in remote parts of officers. They have power to establish.

repair or vacate highways, and it is their Commodore (kom'o-dor), in the duty to cause them to be kent in good British navy, an officer, order.

Commissure (kom'i-sūr), in anatomy, a joining or union of two parts, as the sutures of the corpus callosum or great commissure of the brain.

lative body, or by a court, or by any corporation, or by any society or collective body of men acting together. In Parliament or Congress, when a committee content the United States the title of commosists of the whole members of the body dore was occasionally given by courtesy acting in a different capacity from that to captains in the navy in former wars, which usually belongs to them it is called as in the case of Commodore Perry, but it was not made an official title until the ness of which is conducted under somewhat different regulations from those under which the business of the house when not in committee is carried on. Familiar examples are committees of to the senior captain of a line of mer-supply and committees of ways and chant vessels, and also to the president means.—Standing committees are such as of a yachting club. continue during the existence of the legislative body, and to these are committed all matters that fall within the purposes of their appointment, as the committee of elections or of privileges, etc.

(Comité du Salut Public). a body elected Common (kom'un), in law, 'a profit by the French Convention (April 6, 1793) from among its own members, land of another.' There are certain at first having very limited powers con-rights of common which are recognized erred upon it—that of supervising the by the common law, namely, of pasture, executive and of accelerating its actions. of piscary or fishing, of estovers or curSubsequently, however, its powers beting wood, and of turbary or of digging came extended; all the executive authorturn. But the phrase usually means the ity passed into its hands, and the min-right of pasturing cattle, horses, etc., in isters became merely its scribes. It a certain field, or within a certain terriwas at first composed of nine, but was at first composed of nine, but was increased to twelve members, viz.: transposed to the transposed

generally a captain, holding a temporary commission with a rank between that of captain and admiral, who commands a ship or detachment of ships in the absence of an admiral. They are of two kinds-one having a captain un-Committee (kom-it'e), one or more der him in the same ship, and the other persons elected or appointed to attend to any matter or business referred to them either by a legislative body, or by a court, or by any corporation, or by any society or collective ance as the admiralty may direct. They time of the Civil war, and it was abolished again in 1900, all the commodores now recognized being those on the retired list. The title is also given by courtesy to the sension captain of a line of merhant

Commodus (kom'o-dus), L. ÆLIUS
AURELIUS, a Roman emperor, son of Marcus Aurelius, was born in A.D. 161; killed in 192. He succeeded his father in 180, and gave early proofs of his cruel and voluptuous character. —Select committees are appointed to consider and report on particular subjects.—

When the House of Representatives resolves itself into the committee of the to fight in the circus like a gladiator, and whole house the speaker leaves the chair, which is occupied by one of the memules. One of his concubines, whom he bers, denominated the Chairman of Committee.

The gave himself up to the lowest society and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. He used to fight in the circus like a gladiator, and the most shameless habits. Committee of Public Safety and he was strangled by a favorite athlete.

tory. These rights have been mostly de-

Commoner Commune

houses, chambers, or courts, and sometimes form only one. In the American again with some changes in 1549, and times form only one. In the American again with some changes in 1552. Some cities the city council is generally composed of two branches, called, respectively, select and common. They are Elizabeth. In the reign of James I, and Spatian and Spa elected by the people.

in Britain, a term applied to all citizens ex-Com'moner,

cept the hereditary nobility.

the unwritten law, the law that re-Common Law. ceives its binding force from immemorial usage and universal reception, in distinction from the written or statute law; sometimes from the civil or canon law; and occasionally from the lew mercatoria, or commercial and maritime jurisprudence. It consists of that body of rules, principles, and customs which have been received from former times, and by which as equivalent to primary or elementary courts have been guided in their judicial schools. They are supported by taxation decisions. The evidence of this law is to and the rent or sale of school-lands. be found in the reports of those decisions and the records of the courts. Some of these rules may have originated in edicts or statutes which are now lost, or in the terms and conditions of particular grants or charters; but it is quite certain that many of them originated in judicial decisions founded on natural justice and equity, or on local customs. It is contrasted with (1) the statute law contained in legislative acts; (2) equity, which is also an accretion of judicial decisions, but formed by a new tribunal, which first appeared when the common law had reached its full growth; and (3) the civil law inherited by modern Europe from the Roman Empire. Wherever statute law, however, runs counter to common law, the latter is entirely overruled; but common law, on the other hand, asserts its preëminence equity is opposed to it. where

Common Pleas, in law, pleas brought by private persons against private persons, or by the government, when the cause of action is of a civil nature. In many States of the

form of prayer prescribed by the Church are perfectly distinct in principle. of England to be used in all churches and chapels, and which the clergy are to use under a certain penalty. The Book being one of the subordinate divisions of Common Prayer is used also by the English-speaking Episcopal churches in Scotland, Ireland, America, and the in some other countries as Belgium. In colonies, as well as by some non-episcopal the country a commune sometimes embodies, with or without certain alterations. It dates from the reign of Ed-

finally soon after the Restoration, it underwent new revisions. The Book of Common Prayer of the Protestant Episcopal Church in America was ratified, after several revisions of the English book, in 1789, and was in general use until the adoption of the 'Standard' at the General Convention, Baltimore, Maryland, in 1892, This was published Easter, 1893, and is now in general use.

Commons, House or. See Britain and Parliament.

Common Schools, a term used in the United States

Common Time, in music, is that in which every bar contains an even number of subdivisions, such as two minims, four quavers, or their equivalents. It is of two kinds, simple and compound. Simple common time is that which includes four beats in a bar, or any division of that number, or square of the number or its divisions. Compound common time includes two or four beats of three crochets or quavers to each beat.

Commonwealth (kom'un-welth), the whole body of people in a state; the body politic. In English history the name given to the form of lish history the name given to the form of government established after the death of Charles I, and which lasted until the restoration of Charles II (1649-59).

Communalism (kom'û-nal-izm), the theory of government by communes or corporations of course and districts advanted by the communes of course and districts.

ment by communes or corporations of towns and districts, adopted by the advanced republicans of France and elsewhere. The doctrine is that every commune, or at least every important city commune, as Paris, Marseilles, Lyons, etc., should be a kind of independent state in itself, and France merely a federation of such states. This system must not be confounded with Commune. or a civil nature. In many states of the commune, as I'aris, Marselles, United States a court having jurisdiction etc., should be a kind of inde generally in civil actions. In England the Court of Common Pleas is now federation of such states. This merged in the High Court of Justice.

Common Prayer, Book of, the litims, with which however, it is now form of prayer prescribed by the Church are perfectly distinct in principle, of England to be used in all churches Commune. must not be confounded with Communism, with which however, it is naturally and historically allied, though the two

is governed by an officer called a mayor.

Commune of Paris. —1. A revolution ary
committee which took the place of the
municipality of Paris in the French revolution of 1789, and soon usurped the
supreme authority in the state. Among the s. w. extremity of Lake Como. It
its chiefs were some of the most violent has a splendid marble cathedral dating
of the demagogues, such as Hébert, from the fourteenth century, the old
Danton and Robespierre, 2. The name church of S. Fedele of the tenth century,
adopted by the ultraradical party in the town-hall finished in 1215, the fine
Paris brought once more into prominences
by the events of the Franco-German war. Pliny the elder and younger, and Volta is governed by an officer called a mayor. the Princess Anna Comnena. See Anna Paris brought once more into prominence by the events of the Franco-German war, Pliny the elder and younger, and Volta more immediately by the siege of Paris the natural philosopher. Pop. 34,272.— (Oct., 1870, to Jan., 1871). They ruled over Paris for a brief period after the evacuation of the German troops, and had to be suppressed by troops collected by the Natural Assembly of France. Much bloodshed and wanton destruction of property took place before the rising which carries its surplus waters to the was put down by M. Thiers' government.

Communion (ko-mun'yun), the act of partaking with Bellaggio, a branch running for about the sevents of the Franco-German war, Pliny the elder and younger, and Volta the province of Como has an area of Como, LAKE of (Lago di Como, anciently Lacus Larius), a lake in the north of Italy, at the foot of the was put down by M. Thiers' government.

Communion (ko-mun'yun), the act of partaking with Bellaggio, a branch running for about

Communion (ko-mun'yun). the act of partaking with

which uphous the absorption of all proprietary rights in a common interest, an gardens, and vineyards, mountains rising
equitable division of labor, and the formation of a fund for the supply of all and other fish abound in the lake.
the wants of the community the doctrine

Comorin (kom'o-rin), a cape forming of a community of property, or the negation of individual rights in property. No communistic society has as yet been successful. Robert Owen made several experiments in modified communism, but periments in modified communism, but they failed. St. Simon, Fourier and Indian Ocean, between the northern exProudhon have been the chief exponents of the system in France. Socialism of Africa. They are four in number:

(q. v.) is succeeding communism as an Great Comoro, Mohilla, Johanna and economic system.

Commutator (kom-ū-tā'tor), a piece of apparatus used in connection with many electrical instruments for reversing the current from the battery without the necessity of changing the arrangement of the conductors from the poles.

Comne'ni, an extinct family of sovereigns, statesmen, generals and authors, said to be of Italian origin, to which belonged, from 1057 to 1185. six emperors of the East—Isaac I. Alexis I. John II, Manuel I, Alexis II and Andronicus I. When the Crusaders had overturned the throne of the Comneni or Constantinople a prince of that house which persons ascend to and descend founded an independent state at Trebizond in Asia Minor, where he was gov-

communes. In either case each commune A remarkable member of the family was

communion (ko-mun'yun), the act middle, at the promontory where stands of partaking with Bellaggio, a branch running for about others of the sacramental symbols in the Lord's Supper. See Lord's Supper.

Communism (ko-mun'yun), the act middle, at the promontory where stands Bellaggio, a branch running for about 13 miles southeast to Lecco, called the Lake of Lecco; greatest width 2½ miles. Greatest depth 1929 feet. It is celebrated nomic system or theory for the beautiful scenery of its shores, which upholds the absorption of all pro-which are covered with anomalosme villas,

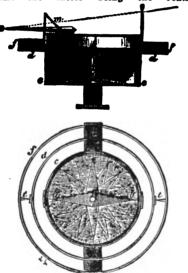
tremity of Madagascar and the continent of Africa. They are four in number: Great Comoro, Mohilla, Johanna and Mayotta; total area, about 760 sq. miles; pop. 82.000. The people are nominally Mohammedans, and are akin to the mixed races of Zanzibar. They have large flocks and herds; and the coast lands are very fertile, abounding in tropical grains and fruits. Mayotta has belonged to France since 1843. and in 1886

zond in Asia Minor, where he was governor (1204). The last sovereign of this house was David Comnenus (1461). an infantry regiment or battalion, cor-

responding to a troop of cavalry or a battery of artillery, consisting of from 60 to 100 men and commanded by a captain. Comparative Anatomy. See Anatomy.

Comparison (kom-par'i-sun), De-GREES OF, in grammar, inflections of adjectives or adverbs to express degrees of the original quality, usually divided into positive, comparative, and superlative; as strong, stronger, strongest, glorious, more glorious, most alorious.

(kum'pas), an instrument used to indicate the mag-Compass netic meridian or the position of objects with respect to that meridian, and employed especially on ships, and by surveyors and travelers. Its origin is unknown, but it is supposed to have been brought from China to Europe about the middle of the thirteenthy century. middle of the thirteenth century. As now generally used it consists of three parts: namely, the box, the card or fly, and the latter being the really



Ship's Compass.

mariner's compass, a circular brass re- points to the absolute north.

ceptacle hung within a wooden one by two concentric rings called gimbals, so fixed by the cross centers to the box that the inner one, or compass-box, shall retain a horizontal position in all motions



Compass Card.

The circular card is divided of the ship. of the snip. The circular card is divided into thirty-two equal parts by lines drawn from the center to the circumference, called points or rhumbs; the intervals between the points are also divided the whole tervals between the points are also divided into halves and quarters, and the whole circumference into equal parts or degrees, 360 of which complete the circle. The four principal are called cardinal points: viz. North, South, East and West. The needle, of magnetized steel, turns freely round its center, and one of the points, by the property of the needle, will always be directed towards the north role. always be directed towards the north pole. There is, however, liable to be a certain deviation owing to the magnetism of the ship itself, and this is especially strong in iron ships. (See Deviation.) As mounted on board ship, magnetic compasses are of two kinds, dry and liquid. The Dry Compasse consists of a very light aluminum frame carrying several light needles (magnets) and supported on a pivot. On top of the frame is the compass card. The most common form of the dry compass is that devised by Lord Kelvin (see illustration). In the Liquid Compass the needles are carried by a buoyant frame in a non-freezing liquid (alcohol and water). The liquid is contained in a bronze bowl always be directed towards the north pole. The liquid is contained in a bronze bowl with a flat glass cover.—The increased use of steel for shipbuilding, which causes ab, Needle. c., Box. dd, Inner gimbal. //, use of steel for snipoulining, which cannot outer gimbal. i, Pivot upon which the card is difficulty in the use of magnetic instruplaced. m, Reflector. rr, Card. tt, uu, Supporting pivots.

Compass. The principle is that of a compass. essential part, and consisting of a small floating gyroscope whose fly-wheel is spun magnet so suspended that it may be able around rapidly by the help of an electric to move freely in a horizontal direction. motion. When free to move in only two The box, which contains the card and planes the gyroscope invariably sets parneedle, is, in the case of the common allel to the axis of the earth and this

measuring and transferring distances. For describing circles the lower end of one of the legs is removed and its place supplied by a holder for a pencil or pen.

Hoir Compasses are compasses having a spring tending to keep the legs apart, and a finely threaded screw by which the spring can be compressed or relaxed with the utmost nicety, and the distance of the legs regulated to a hair's breadth.— Bow Compasses are compasses having the two legs united by a bow passing through one of them, the distance between the legs one of them, the distance between the legs being adjusted by means of a screw and nut.—Proportional Compasses are compasses used for reducing or enlarging drawings, having the legs crossing so as to present a pair on each side of a common pivot. By means of a slit in the legs, and the movable pivot, the relative distances between the points at the respective ends may be adjusted at pleasure in the required proportion in the required proportion.

Compass Plant (Silphium lacinidplant growing in the prairies of the Mississippi Valley, and remarkable from the fact that its erect radical leaves stand so that their edges point almost exactly north and south, especially in midsummer. This is said to be due to the action of light, and to depend on the leaves having an equal number of stomata on either

Compensation (kom-pensa'shun), tant distinguishing marks of different BALANCE. PENDULUM, races. See Ethnology.

Compline (kom'plin), the last of the structed as to counteract the tendency of variations of temperature to produce the Roman Catholic breviary; the comclocks.

Compensation Laws. The first law for the compensation of workmen injured while in three natural groups from the form of the service was passed by Congress in 1908. corolla: (1) Tubuliflora, in which it is This related to employees injured or killed tubular. with five, rarely four, teeth; (2) while in government service, if not due Labiatiflora, in which it is divided into to negligence or misconduct on the part wo lips; and (3) Liauliflora, in which it of the workmen. In case of death, those is slit or ligulate. The stamens are independent on the victim are to receive a serted on the corolla, and their anthers sum equal to one year's wages of the are united into a tube (syngenesious), deceased. In that of disability for a The style is two-cleft at the apex. The

Compasses (kum'pa-ses), or PAIR OF period over 15 days a sum is paid equal COMPASSES, a mathematical instrument used for the describing of exceed one year. Since 1910 laws of this circles, measuring lines, etc. They concharacter have been passed in 32 States, sist simply of two pointed legs, movable These vary so much in their provisions on a joint or pivot, and are used for that we can only speak of them genermeasuring and transferring distances, ally. The injury must not be due to carelessness or drunkenness on the part of the workman, and the payments shall bear a certain proportion to the rates of wages paid. The effect of such laws has been very useful. Devices to prevent injury by unprotected machinery have been introduced by employers, costly litigation has been avoided, and drunkenness on the part of employees has much decreased, many employers refusing to employ drinking men. Especially in the case of railroad employment, where much depended on the particular and the case of the depends on the carefulness of train movers, intoxication has become prohibited.

hibited.

Complègne (kon-pe-ain), a French town, dep. Oise, on the left bank of the Oise, 45 miles N. N. E. of Paris. It has a splendid château, built by St. Louis, rebuilt by Louis XIV, and improved by Louis XV, Louis XVI, and Napoleon I. It was the autumn resort of the court of Napoleon III. In 1430 Joan of Arc was taken prisoner here by the English. Pop. 14,052.

Complexion (kom-plek'shun), the color or hue of the skin, particularly of the face. The color depends partly on pigment in the deep cells

pends partly on pigment in the deep cells of the epidermis and partly on the blood supply. The nature and color of the hair seem closely connected with the com-

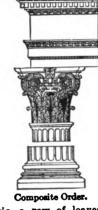
or variations of temperature to produce the Roman Catholic breviary; the comvariations in the rate of vibration or plement of the Vespers or evening office. oscillation. This may be accomplished Compositæ (kom-posite), the largest in various ways, as by bars formed of two or more metals of different expansion of plants, containing over 12,000 described bilities, so that the expansion of one species of herbs or shrubs distributed all counteracts the expansion of another, over the world. The flowers (generally They are used to produce perfect equality called florets) are numerous (with few of rectains in the believes of rectains and seemile formings close of motion in the balances of watches exceptions) and sessile, forming a close and chronometers and the pendulums of head on the dilated top of the receptacle; and surrounded by an involucre of whorled bracts. The flowers are mono-petalous, and the order is divided into

fruit is dry and seed-like. The head of numerous florets was called by the older botanists a compound flower, hence the name. Many are common weeds, like the

daisy, dandelion, thistle, etc.; many are cultivated in gardens, such as the asters, marigold, etc.; others have some economic or medicinal value, as chicory, artichoke, chamomile, lettuce, wormwood, arnica, etc.

Composite

(kom'pos-it) OB-DER, in architecture the last of the five orders; so called because the capital belonging to it is composed out of those of the other orders, borrowing a quarter-round from



the Tuscan and Doric, a row of leaves from the Corinthian, and volutes from the Ionic. Its cornice has simple modillions or dentils. It is called also the Roman or the Italic order.

Composition (kom-pō-z i s h' u n), an arrangement which a bankrupt or person in pecuniary difficulties makes with his creditors, and by which he arranges to pay them a certain proportion only of the debts due. See Bankrupt.

Composition of Forces and

Motions, in mechanics, the union or assemblage of several forces or motions that are oblique to one another into an equivalent force or motion in another direction. Thus two forces acting in the directions of the adjacent sides of a parallelogram compose one force acting in the direction of the diagonal, and if the lengths of the adjacent sides represent also the magnitudes of the forces, the diagonal will represent the magnitude of the compound force or resultent.

Compostella (kom - pos -tel' a). See Santiago-de-Compostella. Compostella, ORDER OF ST. JAMES of Spanish knights formed in the twelfth century to protect the pilgrims who flocked in vast numbers to Santiago - de - Compostella, where the relics of St. James were kept.

Composts (kom'posts), in agriculture are mixtures of various fertilizing substances. See Manure.

Compound Animals, an i mals, man y of which by no means belong to the lowest types, in which individuals, distinct as regards many of the functions of life, are yet connected by some part of their frame so as to form a united whole. Such are the polyzoa and some of the ascidia.

Compounding (kom-pound'ing) of FELONY, the accepting of a consideration for forbearing to prosecute; or the agreeing to receive one's goods again from a thief on condition of not prosecuting. This is an offense punishable by fine and imprisonment.

Compressed Air (kom-prest), atmospheric air compressed by means of pumps, etc., and used in driving stationary and locomotive engines, and excavating machines; as also in working pneumatic despatch tubes, railway brakes, etc. Large railroad tunnels have been excavated by the use of compressed air motors, such as Hoosac tunnel and the Mount Cenis and others.

Compressibility (kom-pres-i-bil'i-ti), the property of the property of the property of the pressed into smaller bulk. All bodies are probably compressible, though the liquids are but slightly so. The gases are exceedingly compressible, and may be liquefied by pressure and cold combined. Those bodies which occupy their former space when the pressure is removed are called elastic.

Compulsory Insurance, a term to any system of insurance enforced by a government for the benefit of its working classes. Compulsory insurance against accident has been in force for some time in Great Britain, Germany, Austria, France, Norway, Italy, and Holland. In the United States custom differs in the various states. In Germany there is a national and compulsory system of insurance against sickness, accident and old age, for all those earning less than \$500 a year. In France there is a compulsory insurance against old age and invalidity. The year 1912 saw the establishment of a revolutionary system of insurance against sickness and unemployment in Great Britain.

Compurgation (kom-pur-gā'shun), a mode of defense allowed by the Anglo-Saxon law in England, and common to most of the Teutonic tribes. The accused was permitted to call a certain number (usually twelve) of men, called compurgators, who joined

their oaths to his in testimony to his Bruce in the Convent of the Minorites innocence.

Comstock Lode (kom'stok), formerly an extremely rich metallic lode in the western part of the State of Nevada, on the eastern slope of the Virginia Mountains. To it belonged the Big Bonanza and other mines, which have yielded gold and silver to the value of over \$300,000,000.

Comte (kout), Isidore Auguste Marie Francois Xavier, founder of the 'positive' system of philosophy, was born at Montpellier in 1798; died at Paris 1857. His family were zealous Catholics and royalists. He was educated at the £cole Polytechnique, and embraced enthusiastically the socialist tenents of St. Simon. As one of his most distinguished pupils he was employed, in 1820, to draw up a formula of the doctrines professed by the St. Simonan school, which he accordingly accomdoctrines professed by the St. Simonian school, which he accordingly accompositive. This work did not, however, meet artists. Pop. 7887. with the approbation of St. Simon, who asserted that Comte had made a very imwith the approbation of St. Simon, who asserted that Comte had made a very important omission by overlooking the reface of a spherical body. A surface is ligious or sentimental part of human concave when straight lines drawn from nature. In 1826 Comte commenced a point to point in it fall between the course of lectures on positive philosophy surface and the spectator; and convex but only four lectures were given when when the surface comes between him and he became deranged in mind, and did not such lines. recover till the end of 1827. In 1830 he commenced the publication of his Cours Concentration (kon-sen-trā'shun), in chemistry, the act of

Milton's Comus is a creation of his own.

Comyn (kom'in), John, Lord of Badenoch, was one of the commissioners sent to confer about the marriage of the Maid of Norway to Prince Edward of England. On the competition for the Scotch throne in 1291 Comyn put in a claim as a descendant of Donald Bane. The date of his death is uncertain, but he was alive in 1299.—His son, John Comyn, called the 'Red Comyn,' was chosen one of the three guardians of Scotland, and defeated the English at Roslin in 1302. He submitted to Edward I in 1304, and was killed by smaller size in Latin America.

at Dumfries in 1306.

Comstock, Anthony, secretary of the New York Society for the Suppression of Vice, born in 1844; died September 21, 1915.

Con, an Italian preposition signifying the with, and of frequent occurrence in musical phraseology; con amore, with feeling; con brio, brilliantly; con gusto,

with taste, etc.

Conacre (kon'ā-ker, kon-ā'ker), a term applied to a system com-mon in Ireland, of underletting a portion of a farm for a single crop, the rent being paid to the farmer in money or in labor.

Concan (kon'kan), a maritime sub-division of Hindustan, in the

recover till the end of 1827. In 1830 he commenced the publication of his Cours de Philosophie Positive, which was completed in six volumes in 1842, and was freely translated into English and contents of the solvent, as is done in the densed by Harriet Martineau (two vols. (See Positive Philosophy.)

(See Positive Philosophy.)

(Ko'mus), in the later Greek mythology, the god of revelry, mythology, the god of revelry, enerally represented as a drunken youth. Milton's Comus is a creation of his own.

Milton's Comus is a creation of his own.

This doctrine came into favor in the twelfth century, when, however, it was opposed by St. Bernard, and it afterwards became a subject of vehement controversy as bivalves (oyster, mussel, etc.). between the Scotists, who supported, and Conchology (kon-kol'o-gi), the scitle Thomists, who opposed it. In 1708 clement XI appointed a festival to be partner of solions which treats of the partners of solions and clearification of the solions. celebrated throughout the church in honor of the immaculate conception. Since that time it was received in the Roman Church as an opinion, but not as an article of faith until the year 1854, when the pope issued a bull which makes the

the pope issued a bull which makes the immaculate conception a point of faith.

Conceptualism (k o n-sep'tū-al-izm), in metaphysics, a doctrine in some sense intermediate between realism and nominalism. Conceptualism assigns to universals an existence which may be called logical or

combined.

Concertina (kon-ser-të'na), a musical instrument invented by Professor Wheatstone, the principle of which is similar to that of the accordion. It is composed of a bellows, with two faces or ends, generally polygonal in shape, on which are placed the various stops or study by the action of which stops or studs, by the action of which air is admitted to the free metallic reeds which produce the sounds. In the English concertina the compass is three octaves and three notes. The German concertina is an inferior instrument.

ments for a full orchestra.

Concert Pitch. See Pitch.

Conception (con-sep'shun), the act or power of conceiving of railways, canals, or the like, usually in the mind; in philosophy, that mental subject to fixed conditions and limitations. act or combination of acts by which an absent object of perception is brought before the mind by the imagination.

Conception, IMMACULATE, in the Roman Catholic Church, Hindustan and some of the Pacific the doctrine that the Virgin Mary was islands.

This doctrine came into favor in the Conchifera (kon-kif'è-ra), Lamarck's

Conchifera (kon-kif'é-ra), Lamarck's name for that large class of acephalous molluscs which have shells consisting of two pieces, commonly known

nature, formation and classification of the shells with which the bodies of many mollusca are protected; or the word may be used also to include a knowledge of the animals themselves, in which case it is equivalent to malacology. In systems of conchology shells are usually divided into three orders, univalves, bivalves into three orders, univalves, bivalves and multivalves, according to the number of pieces of which they are composed. See Mollusca.

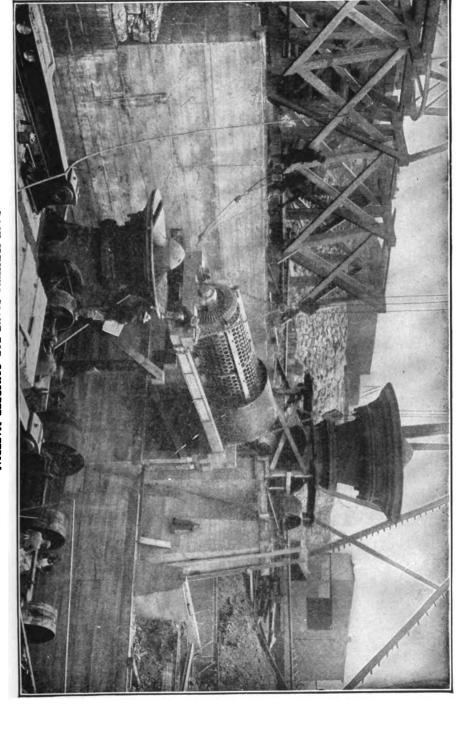
Conclave (kon'klav), the place where the cardinals assemble for ceptualism assigns to universals an existence which may be called logical or psychological, that is, independent of single objects, but dependent upon the mind of the thinking subject, in which they are as notions or conceptions.

Concert (kon'sert, a public or private the curdinals themselves, mind of the thinking subject, in which they are as notions or conceptions.

Concert (kon'sert, a public or private the council at Lyons (1274) the regulations of the conclave. The cardinals are which a number of vocalists or instrumentalists, or both, perform singly or apartments in the palace where the cardinals assemble for the election of the cardinals themselves, mind of the thinking subject, in which they are as notions or conceptions. apartments in the palace where the pontiff dies, and they are supposed to have no communication with the outside world during the period of the election. The companion, either lay or clerical, whom the cardinal is allowed to take with him into the conclave during the election of a pope is called a conclavist. The office is one of great delicacy and trust.

Concord (kon'kord), in music, concord combination of two or more sounds pleasing to the ear. Concords are the octave, the fifth, third and sixth. The two first are called perfect, because Concerto (kon-cher'tō). in music, a as concords they are not liable to any kind of composition, usually alteration by sharps or flats. The two in a symphonic form, written for one last are called imperfect, as being alterprincipal instrument, with accompaniable.

Concord (kon'kord), a village of Massachusetts, on the Concord River, 20 miles W. N. W. of Boston. Concession (kon-sesh'un), a permission conceded by a government to a person or company to do certain things; specially applied to grants of land, of privileges or immunities in connection with certain enter-writers, and is historically famous as



the scene of the first fight between the provisions remain in France at the pres-

Concordance (kon-kord'ans), a book in which the principal words used in any work or number of works used in any work or number or works, as the Scriptures, Shakespere, Mil-ton, Tennyson, Homer, etc., are arranged alphabetically, and the book, chapter and verse, or act, scene, line, or other subdivision in which each word occurs are noted; designed to assist an inquirer in finding any passage by means of any leading word which he can recollect, or to approved concordances in English are those of the Bible by Cruden, Butter-worth, Brown and Taylor. Of non-biblical concordances, that of Mary Carden Clarks to Shakerner decaying Cowden Clarke to Shakespere deserves especially to be mentioned.

concordat (kon-kor'dat), a convention between the pope, as head of the Roman Catholic Church, and any secular government, for the settling of ecclesiastical relations. One of the most important of the earlier concordats, that of Worms, called also the Calistine Concordat, made in 1122, between Pope Calixtus II and the Emperor Henry V, has been regarded as the fundamental law of the church in Germany. Another celebrated concordat was many. Another celebrated concordat was that agreed upon between Cardinal Gonsalvi, in the name of Pius VII, and Concubinage (kon-kử/bi-nāj). sexual Concubinage (kon-kử/bi-nāj). sexual cohabitation of a man without legal marriage. It was perto the vacant sees; the clergy became subject in temporal matters to the civil power; all immunities, eccledisation for the public worship and religious ceremonies and the pastoral addresses of the clergy were placed under the control of the secular authorities. Most of these

British and Americans in the Revolution, shortly after the firing on the militin at Lexington. Pop. 6421.

Concord, a city, the capital of New Hampshire and of Merrimack Co., on the Merrimac River, 73 miles w. N. w. of Boston. It has interesting public edifices, and large manufactures, having water-power in abundance. Its products include cotton and woolen goods, wagons, machinery, and various others. There are quarries of fine granite in the vicinity, which are extensively worked. Pop. 21,497.

Concord a city, capital of Cabarrus

ent day. Since the middle of the eighteenth century concordats have generally eenth century concordats have British and Americans in the Revolution, ent day. Since the middle of the eight-Concord, a city, capital of Cabarrus miles N. E. of Charlotte. Has manufactures of cotton goods, towels, furniture, etc. The Scotta Seminary (colored) is located here. Pop. 11.000. gravel or stone chippings about the size of a nut. It is used extensively in building under water, for example, to form the bottom of a canal or sluice, or the foundation of any structures raised in the sea; and it is also frequently used to make a bed for asphalt pavements, or to form foundations for buildings of any kind. It has also come extensively into use as the material with which the walls of houses are built, the concrete being firmly rammed into molds of the requisite shape, and then allowed to set. In large buildings a material known as reinforced concrete has come into use, the reinforcement consisting of strong the reinforcement consisting of strong steel rods around which the concrete is poured and which add very greatly to its strength. Many very large buildings have been erected in this manner, and the use of concrete as a building material

rapidly growing.

Concretions

(kon-kre'shuns), Mon
BID, in animal economy, hard substances that occasionally make their appearance in different parts of the their appearance in different parts of the body, as well in the solids as in those cavities destined to contain fluids. They are usually named according to the parts of the body in which they occur, as pineal, salivary, pancreatic, hepatic, pulmonary, urinary concretions, etc. Their composition is equally various, but the most common constituents are phosphates, urates, or other salts, in combination with mucus, albumen, fibrin, and other organic matter. See Calculus.

without legal marriage. It was permitted among the ancient Hebrews and the Greeks without limitation; but among

ent courts authorized to take cognizance over Montecuculi in Alsace in 1675 closed of the same kind of case. In criminal his military career. Four years later he cases the court which first takes up a retired to Chantilly, near Paris, and died case has the right of prevention, that is, at Fontainebleau in 1687.

of deciding upon that case exclusive of Condé, Louis Joseph De Bourbon, the other courts which but for that right in 1726.

Concussion of the Brain (kon-kush'un), a term applied to certain injuries of the brain resulting from blows and falls, though unattended with fracture of the skull. Stupor or insensibility, sickness, impeded respiration, and irregular pulse are the first symptoms, and though these may subside there is always for a time

Condé, louis de Bourbon, founder Condé, of the house of, born in 1530; killed after battle of Jarnac, 1569. See Bourbon.

Condé, (the Great Condé), a famous general, born in 1621. In 1641 he married a niece of Cardinal Richelieu. His defeat of the Spanish at Rocroi, in 1643, refined powdered sugar, and packing in was followed, in 1645, by his defeat of Mercy at Nordlingen, and by his capture of Dunkirk in 1646, the year in which he inherited his father's title. During the troubles of the Fronde he at first took the side of the court; but believing himself at the head of the faction of the Petits Mattres, and was imprisoned for a year by Mazarin (1650). On his release he at once put himself at the head of a new Fronde, entered upon negotians.

In surfaces in place of by injecting color water.

Condensed Milk (kon-denst'), milk preserved by evaporating part of its moisture. mixing with defeat of its moisture. mixing with defeat of its moisture. mixing with defeat of air-tight cans hermetically sealed; the sugar may also be omitted.

Condenser (kon-den'ser), a syringe by into a receiver. Also a vessel in which are aqueous or other vapors are condensed by cooling into the liquid form.

Condensing Steam-Engine.

See Steam-engine.

Conde-sur-Noireau (kon-da-sür-noi, a wat-rō), a town of France, den Calvados, at the

the other courts which but for that right would have been equally entitled to take in 1736; only son of the Duke of Bourbon cognizance of it. In civil cases it lies and the Princess of Hesse-Rheinfels. with the suitor to bring his cause before He distinguished himself in the Seven any court he pleases which is competent to take it up.

Concussion of the Brain (kon-On the baringusted and in 1702 defeated the Prince of Brunswick at Johannisberg. he emigrated, and in 1792 formed, at Worms, a corps of emigrant nobility, which first joined the Austrian, and, in 1795, the English service. In 1797 he entered the Russian service, but in 1800, after the separation of Russia from the coalition, reentered for a time the Engmay subside there is always for a time more or less risk of serious inflammation of the brain setting in.

Condamine, Charles Marie de La. Condamine.

Condé (kōn-dā), town and fortress of France, dep. Nord, at the confluence of the Hayne and Scheldt. It gave their title to the Condé family. Pop. (1906) 2701.—For another Condé see Condé-sur-Noireau.

ics, the act of reducing a gas or vapor Surface conto a liquid or solid form. densation, a mode of condensing steam by bringing it in contact with cold metallic surfaces in place of by injecting cold

lease he at once put himself at the head of a new Fronde, entered upon negotiations with Spain, and, his attack on Paris being indecisive, retired to the Confluence of the Noireau and Drouance. Netherlands, where he was appointed generalissim of the Spanish armies. In this capacity he unsuccessfully besieged Arras in 1654; but he was more fortunate at Valenciennes in 1656, and at Combrai in 1657. In 1658 he was defeated before Dunkirk by Turenne, but was restored to his rank in France after the peace of 1659. In 1668 he accomplished the reduction of Franche Comté in three weeks; and in 1674 he defeated the Prince of Orange at Senef. His successes

in 1755 his Traité des Animaux, a jury. In an action for divorce on the criticism on Busion. The sagacity and ground of adultery it is a legal plea in clearness of his writings led to his ap-defense. clearness of his writings led to his appointment as tutor to the nephew of Louis XV, the infant Duke of Parma, for whom he wrote in 1755 his Cours for whom he wrote in 1755 his Cours American bird, the Sarcorhamphus gryd'Etudes, including a grammar, an Art of Ecrire, an Art de Raisonner, an Art of Ecrire, an Art de Raisonner, an Art of Weltrides, and a general history. His work Le Commerce et le Gouvernment tures it resembles the common vulturies, work Le Commerce et le Gouvernment differing from them mainly in the large appeared in the same year as the Wealth companion to it. In 1768 he was elected to the Academy. He died shortly after the publication of his Logic in 1780, his Langue des Calculs being published postb-mously in 1798.

Conditional Immortality (con-

Conditional Immortality (condish) un-al), a doctrine held by certain religious sects, which hold that immortality is dependent upon certain conditions of be-lief and conduct, and replace the tenet of future punishment by that of annihila-tion. This doctrine has been advanced at intervals from ancient times, and in our day it has many advocates.

Conditioned and Unconditioned, in philosophy, terms intro-duced by Sir William Hamil-ton. The Unconditioned is regarded by sir William Hamilton as a genus including two species: the Infinite, or the unconditionally limited; and the Absolute or the unconditionally limited; and the Absolute or the unconditionally limited; and the thesis which he maintains and expounds, and which forms one of the leading doctrines of his philosophical system, is that the Unconditioned, as thus explained, is entirely unthinkable. The mind is confined, in point of knowledge though rot of faith, to the limited and conditioned—the Conditioned being the mean between two unconditionates, mutually exclusive and equally inconceivable, but of which on the principles of contradiction and excluded middle. one must be admitted as the ground, and so become a prey to the necessary. Thus infinite space is inconceivable by us, while at the same time it is equally impossible to us to conceive of space as finite; yet one of these must be admitted necessary, and our conception and the conditional representation in the Andes chain freethand expanse of 14 feet. It is found in greatest numbers in the Andes chain freethand expanse of 14 feet. It is found in greatest numbers in the Andes chain freethand expanse of 14 feet. It is found in greatest numbers in the Andes chain freethand expanse of 14 feet. It is found in greatest numbers in the Andes chain freethand expanse of 14 feet. It is found in greatest numbers in the Andes chain freethand expanse of 14 feet. It is found in greatest numbers in the Andes chain freethand expanse of 14 feet. It is found in greatest numbers in the Andes chain freethand expanse of 14 feet. It is found in greatest numbers in the Andes chain freethand expanse of 14 feet. It is found in greatest numbers in the Andes chain freethand expanse of 14 feet. It is found in greatest numbers in the Andes chain freethand expanse of 14 feet. It is found in greatest numbers in the Andes chain freethand expanse of 14 feet. It is found in greatest numbers in the Andes chain freethand expanse of 14 feet. It is found in greatest numbers in the Andes chain freetha Sir William Hamilton as a genus includ-



Condor (Sarcorhamphus gruphus).

Humboldt met with no specimens whose wings exceeded 9 feet in expanse, though

space as finite; yet one of these must be admitted necessary, and our conception is in some sense a mean between the inconceivables. The doctrine was applied by Mansel to determine the limits of resignous thought.

Condom (kon-don), a town of s. w. Problème des Trois Points appeared, both height above the Baise. It has a dilapidated cathedral, now the parish church. A considerable trade is carried on. Pop. (1906) 4046. (1906) 4046.

Condonation (kon-dō-nā'shun), in morts arant 1699 (1773), he was aplaw, forgiveness of inpointed perpetual secretary (1777). In

learned societies; and took an active part possible, in water or in wet earth. pathies were strongly engaged on the side companying cut, where a is a conductor of the people. By the city of Paris he was elected deputy to the legislative assembly, of which he was soon appointed secretary, and in February, 1792, president. On the trial of Louis he was in favor of the severest sentence not capital; at the same time he proposed to abolish capital punishments, except in case of crimes against the state. The fall of the Girondist party, May 31, 1793, prevented the constitution which Condorcet had drawn up from being accepted, and as he freely criticised the constitution which took its place he was denounced as being an accomplice of Brissot. Madame Verney, a woman of noble feelings, secreted him for eight months, during which he works his Flavoices William Theorems of Mattach and Consisting of metallic strips joined together. b a conductor of conner wires in wrote his Esquisse d'un Tableau Histo-rique des Progrès de l'Esprit Humain. Lest he should endanger her safety, however, he left the house secretly in opposi-tion to her wishes, fied from Paris, and wandered about till arrested and thrown into prison, where, March 28, 1794, he was found dead on the floor, having ap-

parently swallowed poison.

Condottieri (kon-dot-tē-ā'rē), an
Italian name given to the captains of those bands of mercenary soldiers who, in the fourteenth and fif-teenth centuries, hired themselves out to carry on the petty wars of the Italian states. Montreal d'Albarno, a gentleman of Provence, was the first to give definite of Provence, was the first to give definite organization to a lawless band of this kind, and many of them attained a considerable size and power. One of the most noted was the company of Sforza Attendolo, whose son made himself Duke of Milan. For the most part, these mercenaries were good soldiers and splendidly equipped, but rapacious and cruel to all but their own class. all but their own class.

Conduction. See Heat.

Conductor (kon-duk'tur), or Light-NING-CONDUCTOR, an instrument by means of which either the

1777 his Theory of Comets gained the cally connected with thick strips of copprize offered by the Academy of Berlin; per which are carried into the ground to he enriched the Transactions of many a considerable depth and terminated, if Variin the Encyclopedie. During the troubles ous other forms of conductors have been of the first French revolution his symintroduced, such as are shown in the ac-



Lightning-conductor.

consisting of metallic strips joined to-gether, b a conductor of copper wires in-tertwined with iron rodu, e a conductor consisting of a metallic strip forming a tube with spiral flanges. Various kinds of tips are also in use, as will be seen in the cut, d being formed of several metals enclosed the one within the other, the most fusible being outside; g, h, i show how in some cases successive sections of how in some cases successive sections of rods are connected.

Conduit (kon'dit), a line of pipes or an underground channel of some kind for the conveyance of water,

electric wires, etc.

Condyle (kon'dil; Gr. kondylos), in anatomy, a protuberance on the end of a bone serving to form an articulation with another bone; more especially applied to the prominence of the occipital bone for articulation with the spine.

Condy's Fluid, a preparation of permanganate of potash which is largely used as a deodorizer and disinfectant in fevers, etc. It is also employed as a gargle in diphtheria and other throat affections, and is especially valnable for cleansing ulcers and sores.

Cone (kon), as used in geometry, generally means a right circular cone, which may be defined as the solid figure traced out when a right-angled tristrument by means of which either the figure traced out when a right-angled trielectricity of the clouds, the cause of angle is made to revolve round one of the
lightning, is conducted without explosion sides that contain the right angle. A
into the earth, or the lightning itself is more comprehensive definition may be
received and conducted quietly into the
earth or water without injuring huildings,
held fixed at one point, and let any other
ships, etc. It was invented by Benjamin point of the line be made to describe any
Franklin about 1752, and met with speedy
closed curve which does not cut itself;
general adoption. It usually consists of
the solid figure traced out is a cone,
a stout iron rod with one or more points
When the curve which the second point
at the top, the lower end being metalli-

Confessional Cone

the same altitude, and is therefore found them. (3) The annual meeting of the by multiplying the area of the base by Methodist Episcopal Church for delibthe altitude, and taking one-third of the eration on its affairs.

as in the conifers; a strobilus. Conegliano (ko-nel-ya'nō), Conegliano (ko-nel-ya'no), a town The cells are snortish of Italy, province of and cylindrical, and they Treviso, 28 miles N. of Venice. It has a are reproduced not by castle and cathedral with paintings by conjugation, but by soccima da Conegliano. Manufactures: silk and woolen cloths. Pop. 10,000.

Conessi-bark (kon-es'si), the bark of cell-contents and furnished with two or four cilia. The typical genus Conferra is found, either attached to various bodies or floating swollen in diarrhœa.

Coney Island, a small island 9 miles
Coney Island, southeast of New York, at the west end of Long Island, a popular seaside resort, about one hour by trolley from Manhattan City Hall. Here New York City has undertaken the creation of a great public seaside park. As many as 500,000 people often visit Coney Island in a single day during the summer.

Confederate States the contents and furnished with two or four cilia. The typical genus Conferra is found, either attached to various bodies or floating swollen up with bubbles of gas, branched filament magnified.

The well-known marine delicacy, layer (Porphyra lacinitata and P. vulgāris), with the green laver (Ulva plants.

Confession (kon-fesh'un), a term spring transported to a profession of faith; for instance, the Confession of Augsburg. It seemed to the contents and furnished with two or four cilia. The typical genus Conferra is found, either attached to various bodies or floating swollen up with bubbles of gas, branched filament magnified.

Conferra is found, either attached to various bodies or floating swollen up with bubbles of gas, branched filament magnified.

The well-known marine delicacy, layer (Porphyra lacinitata and P. vulgāris), with the green laver (Ulva plants.) belongs to this tribe of plants.

Confession of faith; for instance, the Confession of Augsburg. It seemed to a profession of Augsburg. It seemed to a profession of Augsburg.

Conference (kon'fèr-ens), (1) a Church. Confession is a part of the sentatives of different foreign countries

confessional (kon-fesh'un-al), in for the discussion of some question. (2)

A meeting between delegates of the two churches and chapels, a kind of enclosed

circular cone. The cubical content of a cuss the provisions of a bill with regard right circular cone is one-third of that to which they are disagreed, with the of a cylinder on the same base and of object of effecting an agreement between the same altitude, and is therefore found them. (3) The annual meeting of the provision of the base by Mothedist Enjagonal Church for addit

product. See also Conic Sections.

Cone, in botany, a dry compound fruit, consisting of many open fresh-water algae having green fronds scales, each with two seeds at the base, which are composed of articulated fila-

ments simple or branched. The cells are shortish



tion of a great public seaside park. As many as 500,000 people often visit Coney Island in a single day during the summer.

Confederate States, the name Christian confessions—the Roman Catholic, the Lutheran and the Calvinistic, eleven Southern States of the American Confiteor (I acknowledge) is the confession which attempted to secede on the sion which the Catholic priests make belection of Abraham Lincoln, the Republican candidate, to the presidency in No-

election of Abraham Lincoln, the Republican candidate, to the presidency in November, 1860, thus leading to the great Civil War which lasted till 1865. See United States.

Confederation of the Rhine, the league of Germanic states formed by Napoleon Bonaparte in 1806, and including Bavaria, Wurtemberg, Baden, Hesse Darmstadt, the Kingdom of Westphalia, and the father confessor is Darmstadt, the Kingdom of Westphalia, and comprised 14,608,877 inhabitants. Was altered by Pope Leo the Great, in The princes undertook to raise collectively 450, into a secret one before the night. Darmstadt, the Kingdom of Westphalia, etc. It extended over 125,160 sq. miles, of a public acknowledgment of great sins and comprised 14.608.877 inhabitants. was altered by Pope Leo the Great, in The princes undertook to raise collectively a large body of troops in event of war, and the fourth general Lateran council and established a diet at Frankfort; but (1215) ordained that every one of the the failure of Napoleon's Russian camfaithful, of both sexes, come to years of paign of 1812 shook the structure, and the league soon after broke up. It was their sins at least once a year to their succeeded by a new league, the Germanic own pastor, an ordination still binding on members of the Roman Catholic Conference (kon'fèrens), (1) a Church. Confession is a part of the

houses of a 'egislative body called to dis- seat in which the priest sits to hear

sional is often not unlike a sentry-box, confessions made to a pri the priest sitting within and the penitent be treated as confidential.



Confessional, Cathedral of St. Gudule, Brussels. kneeling without and speaking through an aperture. Many confessionals are in three divisions or compartments, the center, which is for the reception of the priest, being closed half-way up by a dwarf door, and having a seat within it. The side compartments, which communicate with the center by grated apertures, are for the penitents.

Confession of Augsburg. Augs-

burg Confession. Confession of Faith, a statement of religious beliefs, a kind of elaborate creed. (See Creed.) What is most distinctively known by this name is the document prepared by the Assembly of Divines which met at Westminster in obedience to an ordinance of Parliament issued June 12, 1643. The whole number of the assembly amounted to 174 mambers, mostly Post amounted to 174 members, mostly Puritans, thirty-two being members of Parliament. There were also six Scottish commissioners appointed to consult and deliberate, but not to vote. One of the chief results of the deliberations was the framing of the Confession of Faith, which. on the return of the Scottish commissioners, was adopted by the Assembly of the Church of Scotland, August 27, 1647. Confidential Communication,

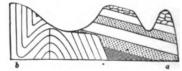
in law, a communication made by one person to another which the latter cannot be compelled to give in evidence as a witness. Generally all communications made between a client and his agent, between the agent and the counsel in a suit, or between the several parties to a suit, are treated as confidential. The privilege made chief magistrate of the city of confidentiality does not extend to dis Chung too. So striking a reformat

persons confess their sins. The confes- in England it has been decided also that confessions made to a priest are not to

> Confirmation (kon-fer-ma'shun), the ceremony of laying on of hands by a bishop in the admission of baptized persons to the enjoyment of Christian privileges, the person confirmed then taking upon himself the baptismal vows made in his name. It is practised in the Greek, Roman Catholic, Lutheran and English churches. In other Protesting tant churches a public confession of faith before the first communion takes the place of the rite. Confirmation is one of the seven sacraments of the Roman Catholic Church.

> Confiscation (kon-fis-kā'shun), the act of condemning as forfeited, and adjudging to the public treasury, the goods of a criminal in part punishment of a crime.

> Conformable (kon-for'ma-bl), in allel or nearly parallel planes, and having the same dip and changes of dip:



Conformable Strata a and b, Unconform able at c.

said of strata, the opposite term from unconformable. Confucius (kon-füsh'yus), or Kong-FU-TSE (signifying, 'the teacher, Kong'), the famous Chinese sage, born about 550 B.C. in the province of Shantung, then belonging in part to the small vassal kingdom of Lu. His father, Shuhliang-heih, who was of royal descent. died three years later, and the boy was reared in comparative poverty by his mother, Chingtsai. At the age of seven-teen he was made inspector of cornmarkets, at nineteen he married, and after about four years of domesticity, in which a son and two daughters were born him, he commenced his career as a teacher. In 517 B.C. he was induced by two members of one of the principal houses in Lu, who had joined his band of disciples, to who had joined his band of disciples, to visit the capital with them, where he had interviews with Lao-tze, the founder of Taouism. Though temporarily driven from Lu to Tsi by a revolution, he soon returned thither with an increasing following, and at the age of fifty-two was made which magistrate of the city. of of confidentiality does not extend to dis-Chung-too. So striking a reformation closures made to a medical adviser, and was effected by him that he was chosen

his moral and social system, but the five canonical books of Confucianism are the canonical books of Confucianism are the it is only the beginning of other diseases. Yik-king, the Shu-king, the Shi-king, the Sometimes it terminates in bleeding, Le-king and the Chun-tsien, with which are grouped the 'Four Books,' by disciples of Confucius, the Ta-hëo or 'Great Study,' becomes a chronic disease, that is, the the Chung-Yung or 'Invariable Mean,' blood accumulates for a long time and the Hi-tse, written by Meng-tse or Mencius. The teaching of Confucius has had, and still has, an immense influence in China, though he can hardly be said to have founded either a religion or a miles s. of Manchester. It has cotton and philosophy. All his teachings was devoted to practical morality and to the duties of man in this world in relation to his fellowmen; in it was summed up the wisdom acquired by his own insight and experience, and that derived from the water-worn pebbles connected together by teaching of the sages of antiquity. It is a matrix of siliceous, calcareous, or other doubtful if he had any real belief in a personal god. personal god.

by a long dorsal fin beginning near the the Luapula to Lake Moero, and thence by a long dorsal fin beginning near the the Luapula to Lake Moero, and thence nape of the neck, immediately above the again as the Lualaba to Nyangwe. From origin of the pectoral fins. and by having this point its exploration was taken up in the upper jaw longer than the lower. 1876-77 by Stanley, who proved its The best-known member of this genus is identity with the Congo. It carries more the Conger vulgdris, sometimes as thick water to the ocean than the Mississippi, as a man's thigh, frequently attaining a its volume being next to that of the length of 10 feet and more than 100 lbs. Amazon. Its total length is perhaps in weight. It is pale brown above, gray-3000 miles. Its chief tributaries are the ish white below, with whitish dorsal and Aruwimi and the Mobangi from the right, and the Ikelemba and Kwa from the left, which latter represents the collected was is eaten, but is somewhat coarse.

for higher posts, became minister of crime, and with the aid of two powerful disciples body, each of which renders some elevated the state of Lu to a leading position in the kingdom. Its marquis, however, soon after gave himself up to tions of certain organs. Again, if the debauchery, and Confucius became a current of blood to one organ is checked wanderer in many states for thirteen the blood tends to accumulate in another; years. In 483 he returned to Lu, but and the vessels which bring back the would not take office. The deaths of his blood to the heart—that is, the veins—favorite disciples Yen Hwin and Tze-lu are sometimes obstructed, as by external in 481 and 478 did much to bring about pressure, by tumors, etc. Congestion his own, which took place in the latter sometimes lasts a short time only; but if year. Confucius left no work detailing not early cured, and its return, which year. Confucius left no work detailing not early cured, and its return, which his moral and social system, but the five would otherwise be frequent, prevented, it is only the beginning of other diseases.

stone.

Congé d'Elire (kōṇ-zhā dā-lēr), the Congo (kon'gō), formerly Zaire, one of Norman French for 'leave to elect,' designates the sovereign's license authorizing the dean and chapter of a vacant see in England to proceed with a new election. Though nominally 1485, but the lower part of its course was choosing their bishop, yet the dean and chapter are bound to elect, within a certain time, such person as the crown shall recommend, otherwise they incur the penalties of a præmunire.

Conger-cel (koṇ-zhā dā-lēr), the Congo (kon'gō), formerly Zaire, one of the great rivers of the world, in the South Atlantic. The mouth of the river was known to the Portuguese in the South Atlantic. The mouth of the river was known to the Portuguese in the South Atlantic. The mouth of the river was known to the Portuguese in the South Atlantic. The mouth of the under Captain Tuckey, which, in 1816, ascended it for about 172 miles. In 1867, bathle penalties of a præmunire.

Conger-cel (kon'gō), formerly Zaire, one of the great rivers of the world, in the South Atlantic. The mouth of the river was known to the Portuguese in the South Atlantic. The mouth of the river was known to the Portuguese in the South Atlantic. The mouth of the river was known to the Portuguese in the South Atlantic. The mouth of the river was known to the Portuguese in the South Atlantic. The mouth of the river was known to the Portuguese in the South Atlantic. The mouth of the river was known to the Portuguese in the South Atlantic. The mouth of the river was known to the Portuguese in the South Atlantic. The mouth of the river was known to the Portuguese in the South Atlantic. The mouth of the river was known to the Portuguese in the South Atlantic. The world, in the South Atlantic. The mouth of the river was known to the Portuguese in the South Atlantic. The mouth of the river was known to the Portuguese in the South Atlantic. The mouth of the river atlantic. The mouth of the river atlantic. The south Atlantic. The south Atlantic. The south Atlantic. The south At which latter represents the collected wa-Congestion (kon-jest'vun), in mediters of immense rivers from the south cine signifies an excessive such as the Kassai, the Kwango, etc. It accumulation of blood in an organ, which is navigable for about 110 miles from its thereby becomes disordered. Among the mouth, after which the navigation is incauses of congestion are the different terrupted by cataracts. See next article.

Congress

stretching by a kind of narrow neck of ers, and in 1908 King Leopold transferred territory to the river's mouth, but expanding inland so as to cover an immense government. Various reforms have since area, mainly lying south of the river. Deen authorized. Area estimated at 920,—The obvious advantages of the Congo as 000 sq. miles; pop. 8,000,000 to 15,000, a waterway in opening up the continent continent to the formation at Brussels in 1878 of a Comité d'Études du Haut Congo, shun-al-ists), led to the formation at Brussels in 1878 of a Comité d'Études du Haut Congo, under the patronage of Leopold II, having as its aim the internationalization and development of the Congo area. Under its auspices Stanley returned in 1879 (see preceding article) to open up the river and form a free state under Eusponsible to, all authority, saving that ropean auspices. He established a first station at Vivi, the limit of maritime to the Church, the Lord Jesus Christ. Connavigation, 110 miles above the mouth of the Church, the Lord Jesus Christ. Connavigation, 110 miles above the mouth of the Church, the Lord Jesus Christ. Connavigation, 110 miles above the mouth of the Church, the Lord Jesus Christ. Connavigation, 110 miles above the mouth of the Church, the Lord Jesus Christ. Connavigation, 110 miles above the mouth of the Church, the Lord Jesus Christ. Connavigation, 110 miles above the mouth of the Church, the Lord Jesus Christ. Connavigation, 110 miles above the mouth of the Church, the Lord Jesus Christ. Connavigation, 110 miles above the mouth of the Church, the Lord Jesus Christ. Connavigation, 110 miles above the mouth of the Church, the Lord Jesus Christ. Connavigation, 110 miles above the mouth of the Church, the Lord Jesus Christ. Connavigation, 110 miles above the mouth of the Church, the Lord Jesus Christ. Connavigation, 110 miles above the mouth of the Church, the Lord Jesus Christ. Connavigation, 110 miles above the mouth of the Church, the Lord Jesus Christ. Connavigation, 110 miles above the mouth of the Church, the Lord Jesus Christ. Connavigation, 110 miles above the mouth of the Church, the Lord Jesus Christ. steamers up to the higher reaches of the Congo, where in 1882 the station of Leo-Congo, where in 1832 the station of Leopoldville was formed on Stanley Pool. Of the 223 miles between Vivi and Leopoldville only 88 are navigable water; but from the latter station to Stanley Falls the Congo itself is continuously navigable for 1000 miles, to which its great affluents already explored add no fewer than 5000 miles of sawticable waterway. Above miles of serviceable waterway. Above the Stanley Falls station (destroyed by Arab slave-dealers in November 1886) the river is again navigable for a distance of 385 miles to Nyangwe, which is about 1300 miles from the Chambezi sources. The work having been thus initiated by Stanley, and the feasibility of the project made manifest, the association in 1884-85 entered into treaties with all the European powers and the United States for the recognition of its sovereign power. The boundaries of the new Congo Free STATE were settled at the same time, it being agreed that the basin of the Congo and its tributaries should be free to all nations, that no duties should be levied on imports, and that the slave trade should be suppressed. The central government was at Brussels, consisting of the King of Belgium as sovereign, and three departmental chiefs. Railways have been constructed around the lower rapids and elsewhere along the stream, rapids and elsewhere along the stream, formed a confederacy. In 1000 they so that there is now continuous communication by rail and water from the river's mouth to Kalengwe Falls, a distance of 2500 miles. Rubber is the Indians. In 1914 there were in the leading commercial product of the state. United States 6100 churches with 748,000 commercial product of the state. coffee and cacao are successfully grown, communicant members.

and ivory, copal and palm oil and kernels are of importance. The minerals include tin, gold, platinum, iron, coal and palladium. The cruel exploitation United States of America, consisting of

Congo, Belgian, formerly Congo of the natives in the collection of rubber the river Congo, in South Central Africa. dignant protests from travelers and otherstretching by a kind of narrow neck of ers, and in 1908 King Leopold transferred that the control of the

authority in Scripture for uniting the churches of a nation or province into one corporation to be ruled by bishops, supecorporation to be ruled by bishops, superior to the pastors of particular congregations, or by a presbytery or synod. This is it which distinguishes Congregationalism from Episcopacy and from Presbytery. As early as the days of Queen Elizabeth Independents, or Brownists, as they were also named after Robert Browne, were numerous and numerature. ists, as they were also named after Robert Browne, were numerous, and punishments of banishment and even death were inflicted upon some. Finally, large numbers of them retired to Holland and to America. By the Act of Uniformity in 1662 the Independents were subjected to much suffering. The Revolution of 1688, and the passing of the Toleration Act in 1689, prought them relief. Efforts were made brought them relief. Efforts were made about this time to bring about an accommodation between them and the English Presbyterians, but with little result. In 1730 certain Presbyterians, Baptists, and Independents formed themselves into a united body, under the name of the Three

united body, under the name of the Three Denominations. The Independents are the largest dissenting body in England except the Wesleyan Methodists.

The history of American Congregationalism in its early years is practically that of the origin of New England, beginning with the arrival in 1620 of the first group of Puritans. In 1643 the four congregational colonies of Plymouth, Massachusetts Bay, Connecticut and New Haven formed a confederacy. In 1636 they founded Harvard College to provide training for their ministers, and ten years later

two houses—a Senate and a House of Representatives. The Senate consists of two members elected by the legislature of each state for a period of six years, one-third of whom are elected every two years. The Representatives in the lower house are elected by the people of the several states every two years, and their number varies in each state in proportion to the population as determined by the The united body of decennial census. senators and representatives for the two years during which the representatives hold their seats is called one Congress. See United States.

Congressional Apportionment,

the number of people appointed by act of Congress to be represented by one Representative in Congress. The number fixed in the Constitution was 30,000 with the provision that each State should have at least one Representative. This number was increased at each successive congress in order that the membership of census, in order that the membership of the House should not become unwieldly large. The successive ratios since the formation of the government have been as follows:

1789-1792	based	on the Constituto	an'	30,000
1792-1803	based	on Census of	1790.	33,000
1803-1813	••	••	1800.	33.000
1813-1823	••	••	1810.	35,000
1823-1833	**	**	1820.	40,000
1833-1843	••	••	1830.	
1843-1853	**	**	1840.	70,680
1853-1863	**	**	1850.	
1863-1873	••	••	1860.	127,381
1873-1883	••	44		131,625
1883-1893	**	••		151,912
1893-1903	**	••		173,901
1903-1913	**	**		194.182
1913-1923	**	**		211,877
(10)		1 11 404	^,	

The change under the 1910 census increases the membership of the House from 386 to 435, Arizona and New Mexico, which were admitted in 1912, each being given one Representative.

Congressional Library (kong-mounting of hydro-pneuma un-al), the library of the United States louse in 1828. Congress, established in 1800. It now numbers nearly two million books and pampblets, exclusive of maps, charts, photographs, etc. Copies of every work published and copyrighted in the United States must be sent to it, and it contains large numbers of duplicates. In 1897 it was removed from the Capitol to a mag-nificent building erected for it in the

United States House of Representatives of silks and woolens. Pop. 27,065. who is elected by the voters of a whole Conia, CONIINE (C. Hir N), a state instead of by districts.

Congreve (kon'grev), WILLIAM, an English dramatist, born 1670, educated at Kilkenny, and at Trinity College, Dublin, from which he entered the Middle Temple, London. A novel entitled the Incognita, under the pseudonym of Cleophil, was followed, at the age of twenty-one, by his comedy of the Old Backelor, the success of which the Old Bachelor, the success of which procured for him the patronage of Lord Halifax, who made him a commissioner for licensing hackney-coaches; soon after gave him a place in the pipe office; and finally conferred on him a very lucrative place in the customs. He afterwards received an additional sinecure in the appointment of secretary to the island of Jamaica. His next play, the Double Dealer, was less successful; his third comedy, Love for Love, and his tragedy The Mourning Bride (1679), were both popular; but after the cold reception of his Way of the World in 1700, he ceased altogether to write for the stage. He, however, continued to write occasional nowever, connued to write occasional verses on public subjects; and in 1710 published a collection of his plays and poems, which he dedicated to his early patron, Lord Halifax, to whose person and party he remained attached in all fortunes. He died in 1729. His plays belong to the artificial school of comedy, which simed rether at the medication of which aimed rather at the production of a sustained flow of wit than at the precise delineation of character.

Congreve, SIB WILLIAM, inventor of the Congreve rocket, was born in England in 1772, and entered the

army, from which he retired in 1816 with the rank of lieutenant-colonel of artillery and entered the House of Commons. He invented the rocket about 1804. It was first used in active service in the attack on Boulogne, 1806, and on Copenhagen, 1807. He took out patents also for the manufacture of gunpowder and of banknote paper, and wrote treatises on the mounting of naval ordnance and on the hydro-pneumatic lock. He died at Toulouse in 1828

Congreve Rocket. See Rocket.

Coni, or Cu'Neo (kö'nā-5), a town of North Italy, capital of the province of Coni, charmingly situated on a bill, at the confluence of the Stura and the Gesso, 47 miles s. Turin. Formerly all merchandise passing from the seaport of Nice to Lombardy, Switzerland and Germany went by this route, but the rail-Congressman-at-large, a m e m- way has confined its trade to Turin and ber of the neighboring towns. It has manufactures

poisonous principle of Conium maculatum leaves, which are spread out, not folded, (spotted hemlock), nat. order Umbelliand generally grouped in such a manner feræ. It exists in all parts of the plant, as to form a cone composed of a greater but especially in the not quite ripe seed. or smaller number of these leaves, of When pure it is a colorless, oily liquid, which only a portion may be fertile and specific gravity 0.878, changing by ex-bear ovules. The disposition of the ovules but especially in the not quite ripe seed. or smaller number of these leaves, of When pure it is a colorless, oily liquid, which only a portion may be fertile and specific gravity 0.878, changing by exbear ovules. The disposition of the ovules posure to air to a brown fluid, and ulting relation to these scales permits of mately to a resinous, bitter mass, insoluble in alcohol, and division of the Coniferse into three disble in water but soluble in alcohol, and tinct families or tribes. In the Cupres, when purified yielding a jelly with a sineæ, which include the juniper, cypress, butyric odor. It has a nauseous taste etc., the cones are formed of simple scales, and very disagreeable odor, sharp and each of which bears towards the base of choking when strong, but in small quantity like the odor of mice. It is exceedingly poisonous, appearing to cause death has, in place of simple scales, scales by inducing paralysis of the muscles used in respiration. It is antispasmodic and



Conic Sections.

if passing through both sides of the cone obliquely the section is an ellipse (3). A section perpendicular to the axis of the cone forms a circle (4), which may also be considered one of the come sections. A perpendicular plane through the apex gives a triangle (5).

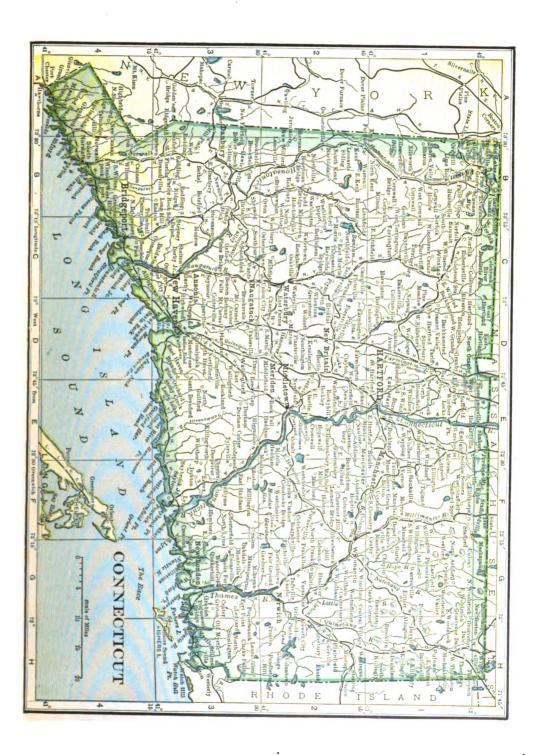
Conidia (kon-id'i-a), in botany, the simple, dustlike, asexual reproductive cells produced on some lichens conium (kō-ni'um), a genus of umbelliferous plants. See Hemlock. and fungi, as in the potato-blight.

assile. The second family, Abietineae, has, in place of simple scales, scales actually double or formed of two parts; the lower one usually designated the bract; the other bearing at its base the ovules reversed. This family includes the pines, firs and larches, the araurelaxant.

Conic Sections (kon'ik), three ovules reversed. This family includes curves, the hyperbola, and the ellipse, so called because they are formed by the intersection of the surface of a cone with pletely covered by the scales which conplanes that cut the cone in various directions. If the cutting-plane be parallel to the axis the curve formed is the hyperbola (1); if parallel to the slope of the cone the curve is a parabola (2); fecundation nor at that of maturation. The ovules are usually set in the same manner as in the Cupressinea. yew, the gineko, etc., belong to this family. The Conifera are found in large forests in the north of Europe and America, and are of great importance as timber trees. They abound also in resinous juices and yield turpentine, pitch, tar. succinic acid, etc. The leaves are usually alternate, and awl or needle shaped, the naked flowers are monrecious or diecious, the male flowers being in decidnous catkins, the female in cones. Coniine (kō'nī-in). See Conia.

Conirostres (kō-ni-ros'trēs), in ornithology, a subdivision of the order Insessores or Passeres, consisting of genera having a stout, conical beak. The best-known genera are the larks, tits, finches, sparrows, gold-finches, linnets, bullfinches, crossbills, starlings, crows and birds of paradise.

Coniferæ (kō-nif'e-rē), the pines, firs, Conjeveram of Hindustan, presidenand their allies, a natural cv of Madras, district of Chingleput. Conjeveram (kon-je-ver-um'), a town order of gymnospermous exogens, the It stands in a valley, is irregularly built. order of gymnospermous exogens, the sessential character of which consists in and from 5 to 6 miles long. It possesses the manner in which the ovules, not entered two famous pagodas dedicated to Vishnu action of the pollen without the interpretation of a stigma. The ovules in these south's has been sometimes given to it the second of the pollen of general and single continuous and single conti plants are borne on scales or modified Cottons are manufactured in the town,



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Conjunctiva (kon-junk-ti'va), the total length, 450 miles.
which lines the inner surface of the eyelids and is continued over the forepart of

in which there is a large Free Church of Scotland mission school. Pop. 46,164. Queen Victoria, born in 1850. He was Conjugal Rights (kon'jōgal), in trained in the Royal Military Academy, law, the right Woolwich, and received his commission in which husband and wife have to each other's society, comfort and affection.

Conjunction (kon'junk'shun), in Hollow the Margaret of Conjunction (kon'junk'shun), in Prussia. In 1905 he was made personal grammar a connective aide-de-camp to Edward VII, and in 1910 indeclinable particle serving to unite opened the first parliament of the Union words, sentences, or clauses of a sentence, and indicating their relation to one another. They are classifiable into two main groups: (1) Coordinating conjunctions, joining independent propositions, and subdivisible into copulative, disjunctive, adversative and illative conjunctions, ioning independent propositions, and subdivisible into copulative, disjunctive, adversative and illative conjunctions, a good harbor and is a big ore port. There linking a dependent or modifying clause to the principal sentence.

Conjunction, in astronomy, the po-Connecticut (kon-et'i-kut), a river conjunction of New Evenland the conjunction

to the principal sentence.

Conjunction, in astronomy, the position of two of the heavenly bodies, such as two planets, or the sun and a planet, when they have the the sun and a planet, when they have the from the earth). When it is simply said that a planet is in conjunction, conjunction with the sun is to be understood. Hampshire, passes through the west part of Messachusetts and the central part of junction are terms used of the planets whose orbits are nearer to the sun than that of the earth, according as the sun in from 8 to 10 feet for about 300 miles is between us and them or they between us and the sun.

which lines the inner surface of the eye lids and is continued over the forepart of the globe of the eye.

Conkling (konk'ling), Roscoe, law-Island Sound; length, east to west, about year, orator and political leader, born at Albany, New York, 1829; about 72 miles; area, 4990 sq. miles. It died in Utica in 1888. He was in Congress 1859-63 and 1865-67, and United but none of them have any great elevastates Senator 1867-81, when he angrily tion. Its principal river is the Connective signed on account of disagreement with cut, which divides it into two nearly President Garfield on the question of equal parts. The coast is indented with numerous bays and creeks, which furnish President Garfield on the question of equal parts. The coast is indented with political appointments to office.

Connaught (kon'nat), the smallest of the four provinces are not extensive, but include iron, tungsten on the Atlantic; area, 6862 square miles: Its large quantities, and there is abundance west coast is much broken up by numerous bays and there is abundance of building-stone. The soil is in general merous bays and inlets, and is thickly better suited for grazing than tillage, studded with islands. The central parts abounding in fine meadows. But where are comparatively level and of limestone agriculture is practised there are ample formation, while the surrounding and crops of hay, tobacco, corn, rye, wheat, picturesque mountains are formed of oats, barley, potatoes, etc.; and fruits. Particularly apples, flourish. The manufactures consist chiefly of woolen, cotand, generally, it is the least fertile of clocks, hats and caps, leather goods. Paper, all the provinces. It is divided into five clocks, hats and caps, leather goods. Connaught, Aethur William Particularly apples, flourish. The manuflex of the provinces of the provinces of the province of the p produce and manufactures. The foreign commerce is nearly all carried on through New York and Boston, but there is a appointed to the command of a Persian considerable coasting trade, and a large amount of tonnage engaged in the codfisheries. Fish-culture has received special attention, many millions of shad ova and young salmon having been introduced into the rivers. The number of miles of railway in operation is over 1000. The chief educational institution is Yale College, one of the most celebrated in the States. Connecticut is divided into eight counties; the seat of government is Hartford. The State at of government is Hartford. The State at of government is government at Hartford. The State at of government is government at Hartford. The State at of government at Hartford, with its seat of government at Hartford; and New Haven, with capital of the common course of inheritance. cut, with its seat of government at Hartford; and New Haven, with capital of same name. Connecticut was settled in 1633 by emigrants from Massachusetts, the Dutch having previously built of fact that the country was invaded by the Danes, Slavs the Dutch having previously built of fact that the country was invaded by the Danes, Slavs the Dutch having previously built of fact that the country was invaded by the Danes, Slavs the Dutch having previously built of fact that the country was invaded by the Danes, Slavs the Dutch having previously built of fact that the country was invaded by the Danes, Slavs the Dutch having previously built of fact that the country was invaded by the Danes, Slavs the Dutch having previously built of fact that the country was invaded by the Danes, Slavs the Dutch having previously built of fact that the country was invaded by the Danes, Slavs the Dutch having previously built of fact that the country was invaded by the Danes, Slavs the Dutch having previously built of fact that the country was invaded by the Danes, Slavs the Dutch having previously built of fact that the country was invaded by the Danes, Slavs the Danes that the country was invaded by the Danes Hartford was settled by English in 1635, and Magyars, and he was constantly at the Dutch having previously built a fort there. The colony of New Haven was constantly at the Dutch having previously built a fort there. The colony of New Haven was constantly at the Dutch having previously built a fort war with his own subjects.

Conrad II, the Salian, King of Gersettled by English in 1635, and the two colonies were united under the name of the Romans, reigned from 1024 to 1039, and is regarded as the true founder of the Franconian or Salic line. On his Fayette Co., Pennsylvania, 57 miles s. s. e. of Pittsburgh, order to attempt certain reforms in the Its manufacture of coke is the largest in kingdom; but his attention was too distracted between Italy and Germany for the United States; also has iron and various other manufactures. Pop. 12,845, him to do more than repress some of the Connemara (k o n-n è-m a'ra), 'the more marked evils of the feudal system. Rays of the Ocean'), a Conrad III, King of Germany and

20 miles in breadth. Its coasts are very broken, and there are numerous small lakes. It is subdivided into Connemara

ship, in which the commander may stand during a naval engagement, and from which he can direct the movements of ship and men. It has openings through which the enemy's ships can be seen.

Connemara

(k o n-n &-m a'ra). 'the more marked evils of the feudal system.

Bays of the Ocean'), a
boggy and mountainous district occupying
the west portion of County Galway, Ireland; about 30 miles in length and 15 to
30 miles in breadth. Its coasts are very
broken, and there are numerous small the factions of Guelf and Ghibeline, lakes. It is subdivided into Connemara

The more marked evils of the feudal system.

Conned III, King of Germany and emperor from 1138 to
4 dynasty of Hohenstaufen.

During the
struggle with his rival Henry the Proud,
the factions of Guelf and Ghibeline,
lakes. It is subdivided into Connemara

The more marked evils of the feudal system.

Conned III,

Augustical System.

1152, was the founder of the Suabian
dynasty of Hohenstaufen.

During the
struggle with his rival Henry the Proud,
the factions of Guelf and Ghibeline,
lakes. It is subdivided into Connemara lakes. It is subdivided into Connemara named from the war-crees of the respec-proper in the west, Jar-Connaught in tive parties, came into existence. Con-the south, and Joyce country in the rad, persuaded by St. Bernard, took part in the second crusade, from 1147 to 1149. Conning Tower, an armored enclos-ure in a battle-He was succeeded by his nephew Frederick Barbarossa.

Conrad, JOSEPH, an English novelist, born in Poland in 1857 and which the enemy's ships can be seen.

Conoid (kō'noid). in geometry, a solid formed by the revolution of a Conrad took to the sea and sailed all over conic section about its axis. Thus the solid resulting from a parabola is a parabolic conoid or paraboloid; if a hyperbolic conoid or hyperboloid, a hyperbolic conoid or hyperboloid, a hyperbolic conoid or hyperboloid, a hyperbolic conoid of had the command of a fieet in Consalvi (kon-salve), EBCOLE. cardilving Syracuse then at war with Athens, and who, after various services, dat with Napoleon in 1801.

Consalvi (kon-sang-kwin'i-ti), Athenian fieet was surprised and Athens cons descended from the same ancestor. naturalized in Britain. His parents were

rightness and wrongness of actions; otherwise called the *Moral Sense*. Whewell defines it as 'the reason, employed about questions of right and wrong, and accompanied with the sentiments of ap-

system were both introduced into France in 1798 by a law which declared that service at an early date. every Frenchman was a soldier, and Consecration (kon-se-krā'shun), the bound to defend the country when in Consecration (kon-se-krā'shun), the bound to defend the country when in Consecration (kon-se-krā'shun), the dedication with cerdanger. Excepting in times of danger it tain rites or ceremonies of a person or provided that the army should be formed by voluntary enrolment or by conservention. The conscription included all bishop; (2) the dedication of a church to Frenchmen from twenty years of age (od's service, performed by a bishop; complete to twenty-five years complete. (3) the act of the priest in celebrating On the restoration of the Bourbons concomplete to twenty-nwe years complete. (3) the act of the priest in cerebraling On the restoration of the Bourbons conscription was abolished. It was, however, reënacted, and continued through the Second Empire to form the mode of shal), in law, are such losses or damages recruitment in France. An army bill, as arise out of a man's act, for which,

It is either lineal or collateral—lineal passed by the National Assembly in between father and son, grandfather and 1872, afterns the universal hability to grandson, and all persons in the direct conscription, but allows certain exception another; collateral between brothers, service is fixed at five years in the active cousins, and other kinsmen descended from a common ancestor, but not from a common ancestor, but not from a common ancestor, but not from a common ancestor. one another.

Conscience (kon'shens), that power total length of military service being thus or faculty, or combination of faculties, which decides on the military service is also the law in Gerrightness and wrongness of actions; many, Italy and Austria. In Germany otherwise called the Moral Sense. Whether the total length of service is twelve years, well defines it as 'the reason, employed Twelve years' service is also the period shout evertions of sight and wrong and in Austria. The Russian army the long in Austria. well defines it as 'the reason, employed about questions of right and wrong, and accompanied with the sentiments of approbation and condemnation, which, by by a law which came into force in 1872 the nature of man, cling inextricably to his apprehension of right or wrong.' See their twenty-first year, and are not physically incompanied are lighle. The men Conscience (kon-syans), Henderk, a ically incapacitated, are liable. The men Flemish novelist, born at have to serve in the active army six Antwerp in 1812; died in 1883. Having years, after which they pass into the educated himself, he taught for a short reserve for another nine years, during time in a school, and then served in the which they are liable to active service army for six years. He was for a time only in time of war. In Great Britain tutor in Flemish to the royal princes, a small militia obtained, if necessary, and from 1868 conservator of the Wierts by conscription is usually kept up in Museum at Brussels. His novels, some of peace, but the regular army and of which have been translated into English, are partly based on the history of his ment. In the United States conscription in the United Stat or which have been translated into English, are partly based on the history of his ment. In the United States conscription was resorted to on several occaflemish life. They include The Lion of sions during the Civil war, on one occaflemisters; Jakob van Artevelde; Batavia; sions leading to a severe riot in New Wooden Clara; Blind Rosa; The Poor Nobleman; The Young Doctor; Maternal Istment existed until 1917. The need of raising an army without delay led the United States government, after taking art in the European war in 1917, to resort to selective draft or conscription senses, most commonly perhaps to denote the mind's knowledge or cognizance of its own action.

Conscription (kon-skrip'shun), the enlisting of the inhabitants of a country capable of bearing arms, by a compulsory levy, at the enlisting of the government, being thus distinguished from recruiting, or voluntary enlistment. The word and the system were both introduced into France in 1798 by a law which declared that service at an early date.

according to a fundamental principle in the western government domain, includ-law, he is answerable if he could have ing the extensive coal beds discovered avoided them. The same law applies to in Alaska. These have been withdrawn

Sources. The great and heedless waste of the extensive natural acres of public lands, of which 35,073, treasures of the United States, especially 164 were coal sites (not including the concerted action for their conservation for the benefit of future generations. The first national movement in this direction was made by President Roosevelt in 1908, when he called a convention of will be confined to the surface, the min State governors to consider what could eral deposits underground being reserved be done for the preservation of our great natural wealth. The result of this movement was the formation of a National Conservation Commission, under the chairmanship of Gifford Pinchot, chiefforester, to take measures for this purpose. In December, 1908, Canada and Mexico were invited to take part in the movement, and in February, 1909, letters were sent to 45 nations, inviting their concurrence with the idea of calling a World Conservation Conference to consider in what way the vast natural resources of the world could best be conservation. Conservation. Conservation. preserved for man's benefit. Steps for the preservation and judicious handling of the ments attached to hospitals, or other charamerican forests had previously been taken, by the withdrawal of public forest there were formerly three conservatories areas from exploitation and their conformerly three conservatories wersion into national forests, the total the Neapolitan group being reduced in area thus withdrawn to July 1, 1914, 1818 to a single establishment under being 185,321,202 acres. A Bureau of the name Royal College of Music. In Forestry was created in 1905, having Milan a conservatory was established in control of these great wooded reserves. 1808. In France the musical school At present these forests yield an annual established in connection with the Opera timber crop worth on the ground about received its final organization in 1795 \$10,000,000, and furnish forage for cattle, horses, sheep and goats worth as musique. Among its teachers have been much more to Western stockmen, while their yielding value is increasing instead of the Conservatorium, founded at Leipzig of diminishing. In addition are State in 1842 under the auspices of Mendelsforests aggregating several millions of sohn, is perhaps the most influential in acres, yielding a profitable lumber supply Germany, though of late years other and conserving the headwaters of many schools have pressed closely upon it. streams. These waters are being largely Institutions of the same description exist utilized in the West, by the building of in Warsaw, Prague, Munich, Berlin and fertile farming lands of vast tracts of the United Etates and the British doformerly arid and barren soils. Conservation has also been extended to streams. formerly arid and barren soils. Conser- minions. vation has also been extended to streams yielding water-power, which have been widely withdrawn from private exploitagardeners to plant-houses, in which the tion and retained as government property for the future benefit of the people at without the use of pots, the building belarge. Similar steps have been taken in regard to the great area of coal lands in The principles of their construction are

railways and corporations generally, as determined in numerous cases.

Conservation of Energy.

See Energy.

Conservation of Natural Re
Taft withdraw from private use, with the expectation that they can be handled in a way to gield a large income to the government and thus be made a source of national aggrandizement. In 1910 President and thus to aggrandizement. In 1910 President Taft withdrew from settlement, under an that year, 43,568,895

sider in what way the vast natural re-sources of the world could best be con-school of musical instruction. Conserva-served for man's benefit. Steps for the tories were originally benevolent establish-preservation and judicious handling of the ments attached to hospitals, or other char-

in all respects the same as for the green- of most of the subsequent compilations of house, with the single difference that the maritime laws, plants are in the tree soil, and grow from the floor instead of being in pots placed on shelves or stages. This distinction, however, is often disregarded, 'conclusion, however, howev servatory' being restricted to the private hothouse.

Conserve (kon'serv), a form of medi-cine in which flowers, herbs, fruits, roots, are preserved as nearly as possible in their natural fresh

Conshohocken (con-shō-hock'en), a town of Pennsylvania, on the Schuylkill River, 13 miles N. w. of Philadelphia. It has iron manufactories, woolen and cotton mills, and other industries. Pop. 7480.

Consideration (kon-sid-ér-ā'shun), in law, the reason or substantial ground which induces a party to enter into a contract; the equivalent for something given, done, or suffered. It ployed to support a cornice, bust, vase, may be either expressed or implied, that or the like, but is frequently used merely is, where justice requires it and the law as an ornament. implies it.

Consignment (kon-sin'ment), a mercantile term which means either the sending of goods to a factor or agent for sale, or the goods so sent. The term is chiefly used in relation to foreign trade. The receivers of conto foreign trade. The receivers of consignments have usually to keep magazines and stores, for the use of which their consigners are charged. The profits of a consigning agency often compare favorably with the occasionally larger but much less safe profits of original ventures. The consigning trade is protected by special laws. In most countries a consigner can claim his goods and collect all outstanding debts for goods sold on his account by a consignee who has suspended payment. The interest that of the remainder in London.

Consonance (kon'sō-nans), in music, an agreeable accord of sounds, such as the third, fifth, and octave. See Concord.

Consistory (kon'sis-tor-i), the highest council of state in the papal government. The name is also applied to the court of every diocessare bishop, held in their cathedara for the trial of

Consistory (kon'sis-tor-1), the highest council of state in
the papal government. The name is also
applied to the court of every diocesan a letter so named as being sounded only
bishop, held in their cathedral churches in connection with a vowel, though some
for the trial of ecclesiastical causes arisconsonants have hardly any sound even

law, supposed to be a compilation of the muses, stoliants, taoiais, dentats, patalaw and trading customs of various tals, gutturals, etc.

Italian cities, as Venice, Genoa, Pisa and Amalfi, together with those of the cities with which they traded, as Barcelona, demeanor, and punishable by imprison-Marseilles, etc. It has formed the basis ment and hard labor. It is constituted



Cornice supported by Consoles, A A.

Consols (kon'solz), or Consolidated Annuities, a public stock forming the greater portion of the national debt of Great Britain. It was formed in 1751 by an act consolidating several separate stocks bearing interest at 3 per cent. into one general stock. At at 5 per cent. Into one general stock. At the period when the consolidation took place the principal of the funds united amounted to £9,137,821; but through the addition of other loans it has increased so much that now, after considerable reductions, it still amounts to more than half of the national debt. The interest of about £5,000,000 is payable in Dublin, that of the remainder in London.

ing within the diocese. In the English when united with a vowel, serving merely Church the consistory is held by the to determine the manner of beginning or bishop's chancellor or commissary and by ending the vowel sounds; as in ap. pa, at archdeacons and their officials either in ta. In uttering a consonant there is arcndeacons and their officials either in to. In uttering a consonant there is the cathedral church or other convenient place in the diocese.

Consolato del Mare (It., lit. 'the there is a want of such contact, the vocal consulate of passage being open, though variously the sea'), an ancient code of maritime modified. They are classed as liquids, law, supposed to be a compilation of the mutes, stbilants, labials, dentals, palary and trading customs of various tals authurals at the contact of the sea'.

Constance Constable

comes stabuli, 'count of the stable'), an getting any of them sold. In 1819 his officer of high rank in several of the mediæval monarchies. Among the Franks, admission as an associate of the Acadafter the major domus, or mayor of the palace, had become king, the comes stabulik became the first dignitary of the and the continent, and for some of his crown, commander-in-chief of the armies, and highest judge in military affairs 'counciable, however, acquired so France. He died in 1837. His careful much power that Louis XIII in 1627 studies of landscape in respect of tone abolished the office entirely. Napoleon reëstablished it, but it vanished with his scape work from him.

high constable was created by William the Conqueror, and became hereditary in France, which derived its best land-downfall. In England the office of lord high constables were appointed only to officiate on special occasions. The office of lord high constable of Scotland, expressly reserved in the treaty of union, is hereditary in the noble family of Errol.

In the common modern acceptation of the term constables are police officers in towns, counties, etc., having as their downs, counties, etc., having as their duties the repression of felonies, the keeping of the peace, the execution of legal warrants, etc. In case of special disturbance a certain number of private citizens may be sworn in as special content, the content of the pope, 26 princes, led is usually the acting bailiff of a justice of the peace, serving write, execution and peace and about 4000 priests, were present at this

by a combination between several persons constable, John, an English land-to carry into effect any purpose injurious either to individuals, particular classes, He was employed in the business of or the community at large. When the his father, a wealthy miller, for some conspiracy leads to any overt act of an years, but entered as a student of the unlawful kind, the offense becomes felony. Royal Academy in 1799. It was not till Constable (kun'sta-bl; Fr. conestable; 1814, twelve years after he had begun to comes stabuli, 'count of the stable'), an getting any of them sold. In 1819 his officer of high rank in several of the medieval monarchies. Among the Franks, admission as an associate of the Academy in an associate of the Academy in 1799.

stables. In the United States a constable is usually the acting bailiff of a justice of the peace, serving writs, executing judgments, making distraints. etc.

Constable, Archibald, a Scottish publisher of the Edinburgh Review and of Scott's novels, and his failure in 1828 involved Scott heavily, the life of the famous novelist being given through a strenuous effort to meet the claims of creditors.

Constable, Hener, a poet of the Elizabeth he was probably the author also of the Forest of Fancy (1579), attributed to Chettle. Suspected of treason against Elizabeth, he was compelled to leave the country in 1595, and no his return in 1601 was confined in the Tower for three years. Date of his death is unknown.

dark-green hue, is subject to sudden risings, the causes of which are unknown. It freezes in severe winters only. The realius Claudius Roman emperor, surraffic on it is considerable, there being named the *Great*, son of the Emperor numerous steamers. The shores are fer-

dramatic as possible, with splendid ren-dering of the human figure and strong dering of the human figure and strong effects of color. His noble picture of Justinian is in the Metropolitan Art Museum, New York. He was decorated with the cross of the Legion of Honor in 1872, and was a member of the French Academy of Fine Arts. He died in 1902.

Constant de Rebecque (kon-stän-d-re-bek), HENRI BENJAMIN, born at Lausanne in 1767; a prominent French liberal politician. During the revolution he distin-guished himself by his works upon poli-

guished himself by his works upon politics and on revolutionary subjects, and was elected to the office of tribune; but his speeches and writings rendered him odious to the First Consul, and he was dismissed in 1802. He died in 1830. Constantia (kon-stan'ti-a), a small district in Cape Colony a few miles from Cape Town, celebrated for its wine, made from vines brought originally from Persia and the Rhine, esteemed the best liqueur wine after Tokay, and owing its special properties kay, and owing its special properties largely to the soil.

Constantina (kon-stân-tĕ'nâ), a town of Spain, 40 miles N. N.

L. of Seville. Argentiferous lead mines are in the vicinity. Pop. 9687.

Constantine (kon-stân-tēn'), a town in Algeria, capital of a poek pen-

province of same name, on a rocky pen-insula, 1968 ft. above the sea, and accessible only on one side. It is surrounded by walls, and the only edifice deserving notice is the palace of the bey, now the residence of the French governor. Both within the town and in the vicinity Ro-man remains abound, the town having been built by the emperor whose name it bears, on the site of Cirta, the capital of the Numidian kings. The manufactures consist chiefly of woolen and linen goods: the trade is in corn. linen, and wax. Pop. of town (1906) 46,806.

numerous steamers. The shores are fertile, but not remarkably picturesque.

Constant (kon-stan), Benjamin, portrait painter, was born at was retained at court as a hostage, but Paris in 1845. He studied in the école after Diocletian and Maximian had laid des Beaux Arts and under Cabanel. He exhibited with growing distinction, at successive salons, from that of 1860 with his Hamlet, his Samson in 1872, his father he was chosen emperor by the Scenes from Algiers in 1873-74, his great historical painting of Mohammed II in subject to his father, namely, Gaul, Spain, and Britain. He more than once defeated the Franks who had obtained a

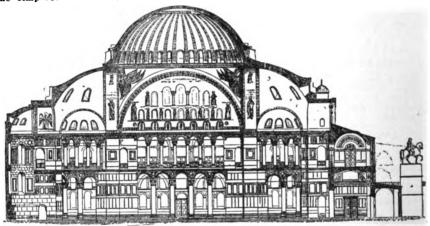


Constantine.

footing in Gaul and drove them across the Roting in Gaul and drove them across the Rhine; and then directed his arms against Maxentius, who had joined Maximian against him. In the campaign in Italy he saw, it is said, the vision of a faming cross in the heavens, beneath the sun, bearing the inscription, 'In hoc signo vinces.' Under the standard of the cross, therefore he venuised the army of therefore, he vanquished the army of Maxentius under the walls of Rome, and entered the city in triumph. In 313, together with his son-in-law, the eastern gether with his son-in-law, the eastern emperor, Licinius, he published the memorable edict of toleration in favor of the Christians, and subsequently declared Christianity the religion of the state. Licinius, becoming jealous of his fame, twice took up arms against him, but was on each occasion defeated, and finally put to death. Thus in 323 Constantine became the sole head of the Roman Impire. His internal administration was marked by a wise spirit of reform, and by many humane concessions with regard to

tal of the empire, at Byzantium, called after him Constantinople. In 332 he fought against the Goths, relieved the empire of a disgraceful tribute, and secured his frontier upon the Danube. In 337 he was taken ill, was baptized, and died, leaving his empire between his three sons, Conis sometimes numbered among the saints, and his festival observed May 20 or 21.

slaves, accused persons, widows, etc. In Constantinople (k o n-stan-ti-nō'pl; 329 he laid the foundation of a new capital of the empire, at Byzantium, called by the Turks Stamboul, from after him Constanting Co tine, called by the Turks Stambout, from the Greek eis tên polin, into the city), a celebrated city of Turkey in Europe, capital of the Turkish Empire, situated on a promontory jutting into the Sea of Marmora, having the Golden Horn, an inlet of the latter, on the north and the Bosphorus on the east. The city proparies the suprounded by water on all er is thus surrounded by water on all sides excepting the west, where is an an-cient and lofty double wall of 4 miles in Constantine, PAULOVITCH, Grandprince of Russta. second son of Paul I, born in 1779. He distinguished himself in 1799 under Suwarroff, and at Austerlitz in 1805; and in
1812, 1813 and 1814 attended his brother,
the Emperor Alexander, in all his camand as excepting the west, where is an ancient and lofty double wall of 4 miles in
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Section of Santa Sophia, Constantinople.

in Poland. On the decease of his brother in 1825 he was proclaimed emperor, but renounced his claim. He died in 1831, execrated by the Poles as one of their most barbarous oppressors.

Constantine I, King of Greece from 1913 to 1917, was born at Athens August 2, 1868. At the outbreak of the European war his sympathies were with the German-Austrian combination, the Kaiser Wilhelm being his brother-in-law. He professed neutralhis brother-in-law. He professed neutrality, but Great Britain and her Allies forced his abdication and placed his second son, Alexander, on the throne of the Hellenes on June 13, 1917. Constantine was charged with 'having violated the Constitution of which France, England and Russia are the trustees.'

Later he superintended affairs d. On the decease of his brother he was proclaimed emperor, but d his claim. He died in 1831, a large space. At the principal entrance is a large and lofty gate, called Bab barous oppressors.

Intine I, 1913, to 1917, was the well-known diplomatic phrase. Of the 300 mosques, the most remarkable are the royal mosques, of which there are about fifteen, esteemed the finest in the world. First among these is the mosque of St. Sophia, the most ancient existing Christian church, converted in 1453 into a mosque on the capture of the city by the Turks. Another magnificent mosque is that of Soliman; after which are those of the Sultana Valide, built by the mother of Mohammed IV, and of Sultan Achmet, the most conspicuous object in the city

when viewed from the Sea of Marmora. The streets are mostly extremely narrow, dark, dirty, and ill paved, and exceedingly within recent years owing to the construction of tramways and the railway to LATA...

Adrianople, which runs along the shore merce. Here and the Sea of Marmora and past the Seraglio to the entrance of the Golden Horn. extending along the Bosporus for nemalars are severally allotted to particular occupies the more elevated portion of the trades and merchandise. Constantinople promontory of which Galata forms the has but one remarkable square, called the maritime part. Both it and Galata have moved the square of modern European towns.—Top-Hanel is situate a little further up the Bosporus than Galata, of which it forms a continuation. It has a government foundry and for cannon.—Constantination of the appearance of the same of the s crooked and tortuous, but there has been



At-Meidan, occupying the site of the ancient Hippodrome. There are about 130 public baths in the city, mostly of marble, of plain exterior, but handsome and commodious within. The numerous cemeteries, mostly outside the western wall, have become vast forests, extending for miles round the city and its suburbs. The few manufactures are chiefly confined to articles in morocco leather, saddlery, to-bacco-pipes, fes caps, arms, perfumes, gold and silver embroideries, etc. The foreign commerce is considerable. The harbor,

long, and a little more than half a mile broad at the widest part. Among the imports are grain, timber, cotton stuffs, and other manufactured goods. The ex-

which it forms a continuation. It has a government foundry and arsenal for cannon.—Constantinople occupies the site of the ancient Byzantium, and was named after Constantine the Great, who rebuilt it about A.D. 330, It was taken in 1204 by the Crusaders, who retained it till 1261; and by the Turks under Mohammed II, May 29, 1453—an event which completed the extinction of the Byzantine Empire. See Byzantine Empire and Byzantium. Pop. Empire and Byzantium. (1914), 1,300,000.

Constantinople, GENERAL COUNCILS or. These include the second, fifth, sixth, the Trullan, and the eighth. The second was convoked by Theodosius the Great, in 381, to put down the enemies of the Nicene Creed, who had already been restrained by his decrees. The fifth general council was held by the Emperor Justinian in 553, to decide the dispute of the Three Chapters, or three doctrines of the Bishops Theodore of Mop-

suestia, Theodoret, and Ibas of Edessa, who were suspected of Nestorianism, and the council. The declared heretics by the council. The sixth council, held 680-681, condemned the doctrines of the Monothelites, and declared their leaders heretics. As these clared their leaders neretics. As three two councils made no new ecclesiastical laws, the Emperor Justinian II, in 692, again summoned a general council, which, because it was held in the Trullan Palace, cles in morocco leather, saddlery, to-because it was held in the Trullan Palace, bacco-pipes, fes caps, arms, perfumes, gold was called the Trullan Council. It inand silver embroideries, etc. The foreign stituted rigid laws for the clergy, among commerce is considerable. The harbor, them those fixing the rank of the pathe Golden Horn, which more resembles a triarchs and the permission of marriage large river than a harbor, is deep, well to priests, which were so offensive to aheltered and capable of containing 1200 the Latin Church that she rejected all large ships, which may load and unload the decrees of this council; but in the alongside the quays. It is about 6 miles Greek Church they are still valid. The

stars, and which have received names for convenience of description and reference. It is plain that the union of several stars into a constellation, to which the name of some animal, person, or inanimate object is given, must be entirely arbitrary, since the several points (the stars) may be united in a hundred different tways, just as imagination directs. The grouping adopted by the Egyptians was accordingly modified by the Greeks, though they retained the Ram, the Bull, the Dog, etc.; and the Greek constellations were again modified by the Romans and again by the Arabians. At various times, also, Christianity has endeavored followed by strict attention to regimen, to supplant the pagan system, the Venerable Bede having given the names of the twelve apostles to the signs of the sodiac, and Judas Schillerius having, in 1627, applied Scripture names to all the constellations. Weigelius, a professor of Jena, even grouped the stars upon a heraldic basis, introducing the arms of all the princes of Europe among the constellations. The old constellations have, however, been for the most part retained. Ptolemy enumerated forty-eight constellations, which are still called the Ptolemæan. They are the following:—1. The twelve signs of the zodiac (see Zodiac).

2. Twenty-one constellations found in the name faces. Its immediate effects are disordered appetite, a dry, coated or clammy obequet, threat, or a disagreeable taste in the mouth, dullness, giddiness, or pain in the convenience of description and reference. southern hemisphere—Orion, the Whale (Cetus), Eridanus, the Hare (Lepus), the Great Dog (Canis Major), the Little Dog (Canis Minor), Hydra, the Cup (Crater), the Crow (Corvus), the Centaur, the Wolf (Lupus), the Altar (Ara), the Southern Fish (Piscis Australia), the Argo, the Southern Crown trdlis), the Argo, the Southern Crown (Corona Australis). Others were subsequently added, this being especially rendered necessary by the increased navigations of the southern being th dered necessary by the increased navigather of the southern hemisphere, and now own government, as in the United States, the different groups of stars have come to be associated with all sorts of animals tutions are:—1. Democratic, when the

eighth general council (869-870) declared and objects, including the Camelopard, the against the Iconoclasts, deposed Photius, Fly, the Air-pump, the Compasses, etc. and confirmed St. Ignatius in the see of The different stars of a constellation are Constantinople. This council is not recognized by the Greek Church.

Constellations (k o n-s tel-lā'shuns) are the groups into are the groups into magnitude are the smallest visible to the which astronomers have divided the fixed stars, and which have received names for ticular names. (kon-stienā'shun) the

Constipation (kon-sti-pā'ahun), the undue retention of the fæces. Its immediate effects are disor-

maan. They are the following:—1. The state, whether it be a written instrument twelve signs of the zodiac (see Zodiac). of a certain date, as that of the United 2. Twenty-one constellations found in the States of America, or an aggregate of northern hemisphere—the Great Bear laws and usuages which have been formed (Ursa Major), the Little Bear (Ursa in the course of ages, like the English Minor), Perseus, the Dragon, Cepheus, constitution. The ideal constitution is Cassiopeia, Andromeda, Pegasus, Equulus that established by a free sovereign people (Horse's Head), the Triangle, the Wagfort their own regulation, though the exoner (Auriga), Bootes, the Northern pediency of other forms at various stages Crown (Corona Boreālis), Ophiuchus, of national development cannot but be the Serpent (Serpentarius), Hercules, recognized. The chief of these are:—1. the Arrow (Sagitta), the Lyre, the Swan (Constitutions granted by the plenary (Cygnus), the Dolphin, the Eagle (Aquipower of absolute monarchs, or constitution). 3. Fifteen constellations in the tions octroyées, such as Louis XVIII's southern hemisphere—Orion, the Whale Charte. 2. Those formed by contract beof national development cannot but be recognized. The chief of these are:—1. Constitutions granted by the plenary power of absolute monarchs, or constitutions octroyées, such as Louis XVIII's Charte. 2. Those formed by contract between a relations and his possible than Charte. 2. Those formed by contract between a ruler and his people, the contract being mutually binding—a class under which, in a great degree, the British constitution must be placed. 3. Those formed by a compact between different sovereign powers, such as the constitutions of the German Empire, of the United Provinces of Holland, and of the Swiss Confederation. 4. Those made by the people of a country or state for their

fundamental law guarantees to every citizen equal rights, protection, and participation, direct or indirect, in the government, such as the constitutions of the of the senate, the body in whose hands
United States and of some cantons of was the administration of the republic.
Switzerland. 2. Aristocratic, when the
Constitution recognizes privileged classes the nobility and clergy, and entrusts period (366 B.C.) also from the plebelans.
The government entirely to them, or allows them a very disproportionate share int. Such a constitution was that of age, and must have passed through the Venice, and such at one time those of inferior offices of questor, ædile, and some Swiss cantons, for instance, Bern. prætor, and he was required by law to be
3. Of a mixed character. To this latter in Rome at the time of the election. All division belong some monarchical constitutions, which recognize the existence of a king whose power is modified by other insignia of the consuls were a staff of a king whose power is modified by other insignia of the consuls were a staff of branches of government of a more or less ivory with an eagle at its head, a togate popular cast. The British constitution bordered with purple (togate prætesta),

rances of government of a more or less ivory with an eagle at its head, a toga popular cast. The British constitution belongs to this division. For the text of the Constitution of the United States, see United States.

Constitution, The an American frig.

Constitution, The an American frig.

Constitution, ate of 44 guns, launched sept. 20, 1797, which became renowned such was the subject of O. W. Holmes's presented them. In the beginning of the republic the authority of the constitution have any victories in the war of 1812. She was the subject of O. W. Holmes's order a citizen to be put to death; but poem Old Ironsides, by the influence of which she has been retained in the navy early and is now at the Boston Navy Yard. She captured the British frigate Guerriere the She captured the British frigate Guerriere the Greek term homoousios, the true signification of which disturbed the religious world early in the fourth century. The Athanasians, or Trinitarians at the Council of Nice in 325, gave it the meaning of the revolution of the 18th and the religious world early in the fourth century. The chanasians, or Trinitarians at the Council of Nice in 325, gave it the meaning of the revolution of the 18th and the results of the substantiation. The term consubstantiation and wine; opposed to the Roman Catholic doctrine of transubstantiation. The term consubstantiation was employed in the doctrine of transubstantiation. The term consubstantiation was employed in the doctrine of transubstantiation. The term consubstantiation was employed in the doctrine of transubstantiation. The term consubstantiation was employed in the doctrine of transubstantiation. The term consubstantiation of the Saviour's presence in the Holy Supper. The Lutheran Church, your proclaimed Dec. 15. by which and reverse of the Reformation by non-Lutheran writers to designate the Lutheran Church, your proclaimed Dec. 15. by which and reverse of the Reformation by non-Lutheran writers to designate the Lutheran Church, your proclaimed Dec. 15. by which

and repeatedly rejected it and the meaning ity, while the legislative power was in the it conveys in her official declarations. Consul (kon'sul), a name originally; a conservative senate was also given to the two highest magistrates in the republic of Rome. After King Tarquinius Superbus had been exfor life and thus the constitution of France became again practically monar-ure of special knowledge is required for chical. On April 10, 1804, he was pro-efficient consular service and such knowl-claimed emperor, and even the nominal edge can be gained only through long consulate ended.

At present consuls are officials appointed by the government of one country to attend to its commercial interests in seaports or other towns of another country. The duties of a consul, generally speaking, are to promote the trade of the country he represents; to give advice and country when represents it or give advice and the country when the following t assistance when called upon to his fellowsubjects; to uphold their lawful interests and privileges if any attempt be made to injure them; to transmit reports of trade to his own government, to authenticate certain documents, etc. They are generally of three ranks: consuls-general,

consuls, and vice-consuls.

The position of the United States consuls is minutely described in the Regulations, Washington, 1896. Under various treaties and conventions they enjoy large privileges and jurisdiction. By the treaty of 1816 with Sweden the United States government agreed that the consuls of the two states respectively should be sole judges in disputes between captains and crews of vessels. (Up to 1906 there were eighteen treaties containing this clause.) By convention with France in 1853, they likewise agreed that the consuls of both countries should be permitted to hold real estate, and to have the "police interne des navires à commerce." In Borneo, China, Korea, Morocco, Persia, Siam, Tripoli and Turkey an extensive jurisdiction, civil and criminal, is exercised by treaty stipulation in cases where United States subjects are interested. Exemption from government agreed that the consuls of the eign consuls as representative suitors for absent foreigners. The United States commercial agents are appointed by the president, and are distinct from the con-sular agents, who are simply deputy con-

specified term of service is fixed; usually Consumption, in political economy. all important consular officers are changed

edge can be gained only through long service. Another defect from which the American consular system suffers is inadequacy of salaries. There are only a few posts carrying a salary of over \$3500. In some cases fees for verifying invoices, etc., add very materially to the income of the consul; but in very few cases does the aggregate income of the consul compare with that of officers of like grade of foreign nations.

Consular reports on commercial mat ters are published by the bureau of sta-tistics. These appear daily, and are later collected in monthly issues. At various times inquiries concerning matters of trade and industry are sent to the various consuls, and their reports are published by the same bureau.

Consumers' League, an organiza-aims at bettering the conditions of workaims at bettering the conditions of workers and educating consumers to a knowledge of their responsibility toward the workers. It was begun in England in 1890 and spread the same year to the United States of America. The Working Women's Society of New York was making an investigation into the conditions of the employment of women in the city stores and called together a meeting to ask consumers to aid them in their move-Korea, Morocco, Persia, Siam, Tripoli ment. The result was the formation of and Turkey an extensive jurisdiction, the Consumers' League of New York civil and criminal, is exercised by treaty (January, 1891), and of other great citstipulation in cases where United States ies. The league began to inquire into the subjects are interested. Exemption from liability to appear as a witness is often stipulated. To the consuls of other nations the United States government holidays and general treatment. After has always accorded the privileges of arresting deserters, and of being themselves amenable only to the federal and not to the state courts. They also recognize foreign consuls as representative suitors for destroy. dertook to also inquire into factory conditions and laid down certain conditions to be satisfied before members would pur-chase goods coming from factories. A label sular agents, who are simply deputy consuls in districts where there is no principal consul. By a law of April, 1906, the U. S. consular service was reorganized and graded, the office of consul-general being divided into seven classes, and that Consumption (kon-sum's hun). or Phithisis (the's is; Consuls are appointed by the president Gr. phthio, to consume), now usually with the concurrence of the Senate. No known as tuberculosis (which see).

with changes of the administration. The of the products of industry or of things result of this system has long been recognized to be unsatisfactory. A large measusually characterized as productive or

unproductive, according as it does or does diseased person, and are capable of propunproductive, according as it does or does diseased person, and are capable of propnot conduce to the efficiency of a producer and to further production. Thus but much remains to be learned conwealth in the form of machinery is conwealth in the form of machinery is conin the processes of production; and, poisonous particles, such as formaldesimilarly, wealth expended in improving hyde, carbolic acid, sulphur, permanganland is productively consumed; but the
wealth expended in the maintenance of
an operatic artiste is, from the ordinary

Contagious Diseases (Animals) an operatic artiste is, from the ordinary point of view, unproductively consumed. The classification, however, is not of a very definite kind, the distinction lying, for the most part, in the degree of directness and obviousness with which the act of consumption is related to production. or consumption is related to production. pointed to investigate the subject, and in Hence in the case of the operatic artiste 1869 an act (subsequently amended by it is sometimes urged that the recreative acts in 1878, 1884 and 1886) was passed benefit conferred upon the community enforcing regulations for preventing the tends indirectly to increase efficiency in introduction and spread of contagious production, and that from this point of diseases.

View the artiste consumes productively.

In the United States similar acts were so the expenditure of wealth in war, or made to stamp out pleuro-pneumonia, in preparations for war, usually classed or lung plague, which caused much loss as unproductive may be really productive among near-cattle. Kentucky Indiana as unproductive, may be really productive consumption, as tending to the assurance of the producer in the stability of the commercial conditions. The perfect char-acterization of an act of consumption as productive or unproductive involves the consideration of elements of a frequently incommensurable kind, and the rough practical economic test has to be employed with some amount of reservation. Consumption is the end of all production; and as the demand of the consumer determines the employment of the various coefficients of production, land, labor and capital, it is urged by many later economists that the scientific treatment of economics should proceed from consump-tion to production, instead of from pro-duction to consumption in accordance with the method of the older economists. Too much stress may be laid upon this method, but the consideration of economic problems from the standpoint of the consumer is of advantage, as giving the amounted to over \$10,000,000. It does social need, rather than the producer's not affect human beings. See Rinder-profit, the prior claim upon the attention. pest.

has sometimes been made between connext account day. In reality, contango tagion, as the communication of disease is interest paid for the loan of money strictly by contact, and infection, as comfor the interval between account days, munication of disease by the miasmata, The price at which the bargain is entered exhalations or germs which one body is called the making-up price.

Gontarini (kon-tå-rð'nē), a noble disease germs proceed from the breath, family of Venice which disease germs proceed from the breath, sides several men of note.

Act, an act of the British Parliament passed in consequence of the ravages of the disease known as Rinderpest or cattle-plague, which broke out in 1865. Commissioners were appointed to investigate the subject, and in 1869 an act (subsequently amended by acts in 1878, 1884 and 1886) was passed

among neat-cattle. Kentucky, Indiana, Illinois and Missouri suffered largely from stamped out by the Bureau of Animal Industry. The symptoms of lung plague are fever, dry muzzle, accelerated pulse and respiration, depression, cough and indications of pleurisy and pneumonia. In about 50 per cent. of the cases death occurs in from one to two weeks from its attack; of the remainder about one-half attack; of the remainder about one-half become chronic and recover. No therapeusis that has been tried has been found of any value, so governments have made regulations to quarantine infected and suspected animals, and for the slaughter suspected animals, and for the slaughter of those regarded as dangerous to healthy animals. The United States freed itself from pleuro-pneumonia by enforcing these measures. It is estimated that the loss caused by this disease reached several million dollars in this country, while in Britain the annual loss for some years. Britain the annual loss for some years

Contact Action. See Catalysis.

Contagion (kon-ta'jun), the communication of disease by buyer, by carrying the engagement to pay contact direct or indirect. A distinction the price of shares bought over to the has sometimes been made between connext account day. In reality, contango tagion, as the communication of disease is interest neid for the logn of money.

Contempt (kon-tem t'), an offense Contorniati (kon-tor-ni-a'ti; It.), ancient medals or meor authority of a court or legislative dallions in bronze, having a curved furor authority of a court or legislative dallions in bronze, having a curved furassembly. Contempts committed out of row (contorno) on each side, supposed court may be punished by fine or imto have been struck in the days of Conprisonment, contempts done before court stantine the Great and his successors, and are usually punished in a summary way to have formed tickets of admission to by commitment or fine. The power of the public games of the circus of Rome vindicating their authority against and of Constantinople.

contempt is incident to all superior Contour (kon'tôr), an outline. In

Eastern and Western continents, Europe, Asia and Africa being regarded as one, and North and South America another. and North and South America another.

Australia, from its size, is often regarded
as a continent, while Europe and Asia,
regarded as a single body of land, are
frequently spoken of as a continent un-

der the name of Eurasia.

Continental System (k o n-ti-nen'-tal), a plan devised by Napoleon to exclude Britain devised by Napoleon to exclude Britain from intercourse with the continent of Europe. It began with the decree of Ber-lin of November 21, 1806, by which the British Islands were declared to be in a state of blockade; all commerce, interstate of blockade; all commerce, inter-course and correspondence were prohibi-ted; every Briton found in France, or a country occupied by French troops, was declared a prisoner of war; all property belonging to Britons, fair prize, and all trade in goods from Britain or British colonies entirely prohibited. Britain re-plied by orders in council prohibiting trade with French ports, and declaring all harbors of France and her allies sub-jected to the same restrictions as if they jected to the same restrictions as if they were closely blockaded. Further decrees on the part of France, of a still more stringent kind, declared all vessels of whatever flag, which had been searched by a British vessel or paid duty to Brit-British vessel or paid day, and denationalized, and directing the burning of all British goods, etc. decrees caused great annoyance, and gave rise to much smuggling, till annulled at the fall of Napoleon, 1814.

Contingent (kon-tin'jent), the name often given to the quota of troops which is to be furnished by

Continuity (kon-ti-nû'i-ti). Law of, an important principle in the investigation of the laws of motion

Continent (kon'ti-nent), a connected lines, are lines or levels carried along the tract of land of great extent, forming a sort of whole by itself, uniform height above the sea-level, and as Europe, Asia, Africa, North and South America; or we may speak of the Eastern and Western continents, Europe Asia and Africa being to all the south Asia and Africa being the south Asia and Africa b depending on the number of lines or levels taken between the sea-level and the highest point in the region.

Contraband (kon'tra-band), in commerce, all goods and merce, all goods and wares exported from or imported into any country, against the laws of said country. There are, also, a number of articles termed contraband of war which neutrals may be prevented, by one belligerent, from carrying to another. These formerly were confined to arms and munitions, but the contraband list has munitions, but the contraband list has been so lengthened during recent wars as to include practically everything that might be of benefit to a belligerent.

Contrabasso (kon-tra-bas'so), the Italian name, now usu-Italian name, now usually employed by musicians of all nationalities to designate the largest instrument of the violin kind (called sometimes the double bass), with three strings usually tuned in fourths. Its compass is from the lower A of the bass clef to tenor F. In Germany a fourth string is used which divers in a court string is used, which gives it a range of three notes lower.

Contract (kon'trakt), in law, an agreement or covenant tween two or more persons, in which each party binds himself to do or forbear some act, and each acquires a right to what the other promises. Contracts may be in express terms or implied from the acts of the parties; they may be verbal or written, and at common law both forms are binding; but by statute law a promise must be in writing. To be valid. of troops which is to be furnished by a contract must be entered into by parties each member of a number of states composing a confederation.

Continuity (kon-ti-n0'i-ti), Law of, must not be contrary to law or public an important principle policy. Thus, an agreement to do injury in the investigation of the laws of motion to another or a contract not to marry and change in general. It may be enunated thus: nothing passes from one is void. The contract must be founded state to another without passing through on a consideration either of money or all the intermediate states. some act whereby an undoubted advanfraud, mistake, or compulsion.

Contract, Original or Social, in opposed to exist from the beginning between the sovereign power and the subject shell. They are found in the southern Such a contract is evidently a mere supsaid to provide the southern sharing no historical foundation. position, having no historical foundation Convales' cent Hospitals, hospin any annals which have been preserved.

contraction consists of the initial letter, syllable, or syllables of a word, as wit, for ultimo, it is more correctly monks or nuns. See Monastery. Conventicle (kon-ven'ti-kl), a private tions.

Contralto (kon-tral'tō), in music, the highest voice of a male adult, or the lowest of a woman or a of petty sects and dissenters in the boy, called also the Alto, or when possatutes of the time of Charles II. sessed by a man Counter-tenor. It is Convention (kon-ven'shun; Latin, next below the treble and above the formal or statutory assembly, partic-

America, and used as a stimulant and

trol, oversee, or verify the accounts of Conversazione (-sat-si-ō'ne), a reother officers.

Contumacy

tage accrues to the party sued. Lastly, ders of a court; the offense of non-ap-the contract is voidable if obtained by pearance when summoned judicially.

position, having no historical foundation in any annals which have been preserved.

Contractility (kon-trak-til'i-ti), the power which certain and the homes of the patients, established in order that those who have ing life, of shortening themselves. It been successfully treated may be fully may be either voluntary or involuntary. restored to health and strength before Contractions (kon-trak'shuns), abstractions of previations employed to their former unsanitary survival to the view of saving labor in writing, and also in former times with the view of saving parchment in extending MS.

and also in former times with the view of saving parchment in extending MS. iaceæ, the only species being the lily-of-copies of works, deeds, etc. Contraction takes place in several modes, as by rin are two glucosides obtained from the elision; writing a smaller letter above the word contracted; running two or more letters into one character; by for their stimulating effect on the heart and in cardiac dropsy more letters into one character; by for their stimulating effect on the heart. aymbols representing syllables or words; Convection of Heat, the transfer-by initial letters; thus: recd, for received; qam for quam; Mr. for Master; by means of the upward motions of the & for et; p for per; S.P.Q.R. for Sena-by means of the upward motions of the two populusque Romanus. When the contraction consists of the initial letter, convent (kon'vent), a religious house syllable, or syllables of a word, as inhabited by a society of monks or nuns. See Monastery.

sessed by a man Counter-tenor. It is next below the treble and above the tenor, its easy range being from tenor G to treble C.

Contrate-wheel (kon'trāt), a wheel having the teeth having the teeth projecting perpendicularly to the plane of the wheel.

Contravallation (k o n-t ra-val-lā'-shun), in fortification, a line formed in the same manner vacant by the flight of James II.—National Convention. (kon-tra-yer'va) the garrison.

Contraverva (kon-tra-yer'va) the garrison.

Contraverva (kon-tra-yer'va) the suspension of the royal functions a romatic, bitterish root of Dorstenia Contrajerva, a plant of the nettle family, imported from tropical America, and used as a stimulant and

Conversano (kon-ver-sa'nō), a town in South Italy, province tonic.

Controller

(kon-troller), a public of- fine cathedral, and a trade in wine, oil, ficer appointed to con- almonds, flax and cotton. Pop. 13,685.

ception. usually on (kon'tū-ma-si), in law, a large scale and in the evening, at which disobedience of the or- the company move about, converse with their acquaintances, partake of tea, cofcanons; but this power was virtually fee, or other refreshments, and often abolished by the statutes of Henry VIII have objects of art, science, or general interest set out for their inspection.

Convolvulacese (kon-vol-vū-lā'se-ē).

interest set out for their inspection.

Conversion (kon-vér'shun), a te rm in logic. A proposition in logic. A proposition is converted when the predicate is put in the place of the subject, and the subject in place of the predicate; as, 'no A is B' ('no virtuous man is a rebel'), the converse of which is 'no B is A' ('no rebel is a virtuous man'). Simple conversion, however, in this manner is not always logical. In the case of universal affirmatives, for example, 'all A are B' (say, 'all men are animals'), the simple converse 'all B are A' ('all animals are men') would not be true.

Convolvulaces (kon-vol-vā-lā'se-ē).

a natural order of plants comprising about 700 species are climbers. Some of derived from the Exogonium or Ipomæa derived from the Exogonium or Ipomæa purga, an inhabitant of Mexico.

Convolvulus (kon-vol'vū-la'se-ē).

Convolvulaces (kon-vol-vā-lā'se-ē).

A natural order of plants comprising about 700 species are proposition plants comprising about 700 species are plants. Convolvulus derived from the Exogonium or Ipomæa purga, an inhabitant of Mexico.

Convolvulus (kon-vol'vū-lus), a genus of plants, type of the nat. order Convolvuluses, consisting of climbers. Some of Derivacian derived from the Exogonium or Ipomæa purga, an inhabitant of Mexico.

Convolvulus (kon-vol'vū-la'se-ē). men') would not be true.

Converter (kon-ver'ter), the vessel used in the Bessemer steel-making process which holds the

molten iron or carbide of iron which is to be converted into steel.

Convex (kon'veks; Latin converus, vaulted, arched), rising in a circular or rounded form; the contrary (which see). concave (which see). Thus the inside of a watch-glass is concave, the outer surface convex.

Conveyancing (kon-va'an-sing), the practice of drawing deeds, leases, or other writings (conveyancing (kon-va'an-sing)). deeds, leases, or other writings (conveydeeds, leases, l those multifarious deeds and contracts which govern and define the rights and liabilities of families and individuals.

tenced to penal servitude, such servitude consisting at times of forced labor on some public work. In England transpor-tation was formerly the equivalent pun-

Convocation (k o n-vō-kā'shun), an assembly of the clergy of England, belonging either to the province of Canterbury or to that of York, nervous temperament are often the subtoconsult on ecclesiastical matters. From the fact that the province of Canterbury particularly when accompanied by a dissist by much the more influential of the ordered state of the bowels or the prestudent of the convocation of Convulsionists (kon-vul'shun-ists).

Convolvulaceæ (kon-vol-vū-la'se-ē).

known as bind-weeds (C. arvensis); others are cultivated in gardens. C. tricolor, or minor convolvulus, with its large flowers of violet blue, with white and yellow center, is a familiar species. Scammony is obtained from the root of the Convolvalus Scammonia, a native of Syria; the liqueur noyau from C. dissectus. Some species, like the C. Batitas, or sweet-potato, have tuberous and fleshy roots capable of being used as food. Convolvalus Jalapa was long considered as yielding the true jalap of commerce. This is now known to be procured from Exogonium or Ipomasa purps.

erty from one person to another, of appointed to conduct and defend them investigating the title of the vendors and from attack and capture by an enemy, purchasers of property, and of framing In military language it is used for escort. Convulsion (kon-vul'shun), a violent, in v oluntary, spasmodic muscular contraction or series of connabilities of families and individuals. The business of conveyancing is carried on by barristers, solicitors, and members of the legal profession generally.

Convict (kon'vict), the general term for a person who has been for a person who has been for a person who has been the parts affected, or the symptoms. The muscles principally affected in all found guilty of a serious offense and sensence of convulsions are those imme-Convulsions are universal or partial, and have obtained different names according The muscles principally affected in all species of convulsions are those immediately under the direction of the will, as those of the eyelids, eye, face, jaws, neck, superior and inferior extremities. Convulsions are produced commonly by irritation of some part of the brain or spinal cord, such as the general convulsions in inflammation of the brain membranes or

the province of Canterbury is often CONVUISIONISTS CONVULSIONARIES, spoken of as the convocation, as if those fanatics of the eighteenth century there were only one. In former times in France who had or affected to have convocations had the power of enacting convulsions, produced by religious im-

pulses. The name was first applied to fanatics who exhibited varied seizures at the tomb of a Jansenist at St. Médard, some jumping, some barking, and others mewing like a cat.

Conway (kon'wa), or ABERCONWAY, a town and very ancient borough of North Wales, in Carnarvonshire, about 13 miles E. N. E. of Bangor, at the mouth of the Conway. It is notable for its old castle built by Edward I, a suspension bridge built by Telford, and a tubular railway bridge by Stephenson. Pop. 5242.—The river Conway has a course of about 30 miles through much

romantic scenery.

HENRY SEYMOUR, an Eng-Conway, HENRY SEYMOUR, an English field-marshal, born in 1720, second son of the first Lord Conway. He was aide-de-camp to the Duke of Cumberland at Culloden in 1746, commanded as lieutenant-general in Germany in 1761, was Secretary of State in the Whig cabinet 1761-68, was made commander-in-chief of the army in 1782, and moved in Parliament to cease hostilities against the United States. In allusion to this Burke said, 'All England, all Amer-ica, joined in his applause.' He died in 1795.

Conway, Moncure Daniel, author and preacher, born in Stafford Co., Virginia, in 1832; died in 1907. He entered the Methodist ministry in 1849, but afterwards became a distinguished Unitarian pastor and an earnest guished Unitarian pastor and an earnest antislavery advocate. He became pastor of a congregation in London in 1863. He wrote The Golden Hour, Demonology and Devil Lore, The Wandering Jew, Pine and Palm, Life of Thomas Paine, etc.

Conwell, Russell H., American clergyman, born at Worthington, Mass., February 15, 1843. After serving in the Civil War and as newspaper correspondent, he was ordained to the

per correspondent, he was ordained to the ministry and became pastor of Grace Baptist Church, Philadelphia. This church, now known as the Baptist Temple, has prospered greatly under his administration. He has also founded the Temple College (now Temple University, which see) and the Samaritan Hospital.

Cony,

Coney (ko'ni), an old name
for the rabbit; used also in the

English version of the Bible as a transla-

or perennial herbs, scattered over the of Good Hope to Britain in 1771.

sess properties of any value. In England C. squarrosa is called fleabane because of

its supposed property, when powdered and sprinkled, of driving away fleas.

Cooch-Behar, or Kuch-Behar', a native of the cooking of the cooki tive state in India, in political relation with the government of Bengal. It forms with the government of Bengal. It forms a level plain of triangular shape, intersected by numerous rivers, and is entirely surrounded by British territory. The greater portion of the soil is fertile and well cultivated. Area, 1307 sq. miles; pop. 567,037.—The chief town, COOCH-BEHAR, contains some handsome public buildings and a splendid new palace of the maharajah. Pop. 12,000.

COOK, JAMES, a famous British navigator, born in Yorkshire in 1728. of parents not above the rank of

1728, of parents not above the rank of peasantry. He was at first apprenticed to a shopkeeper; but acquiring a love for the sea, he became a sailor. In 1755 he entered the royal navy, and four years



Captain Cook.

later as sailing-master of the Meroury performed valuable services in surveying the St. Lawrence River and the coast of Newfoundland. Some observations on a solar eclipse, communicated to the Royal tion of a Hebrew word probably meaning Society, brought him into notice, and the Hyrax Syridcus, a rabbit-like animal common in Syria and Palestine, inhabitific expedition to the Pacific. During this expedition to the Pacific. During this expedition he successively visited Conyza (kō-ni'za), a genus of plants, Tahiti, New Zealand, discovered New nat. order Composite, annual South Wales, and returned by the Cape warmer regions of the earth, a few being 1772 Captain Cook, now raised to the found in temperate countries. None pes-rank of a commander in the navy, commanded a second expedition to the Pacific cooking, like that of the ancient Romans, and Southern Oceans, which resulted, like is distinguished by a free use of oil. the former, in many interesting observations and discoveries. He returned to Britain in 1774. Two years later he Medici to France, and was carried there again set out on an expedition to ascertain the possibility of a northwest passage. On this voyage he explored the with very slight materials is a covered the Sandwich Islands, on one of highly creditable feature in the domestic which, Hawaii, he was killed by the economy of the nation. No other people natives, February 14, 1779. Captain seems to have equaled the French in this Cook wrote and published a complete account of his second voyage of discovery, Cook's Talet an inlet of the North count of his second voyage of discovery, and an unfinished one of the third voyage, afterwards completed and published by Captain James King.

Cooke, Jax, banker, born at Sandusky, Cook in 1778.

age, afterwards completed and published by Captain James King.

Cooke, Jay, banker, born at Sandusky, Cook in 1778.

Cooke, Ohio, in 1821; died in 1905.

He engaged in the banking business at the banking business at to them because discovered by Captain to them because discovered by Captain He engaged in the banking business at Philadelphia in 1842 and established a to them because discovered by Captain new firm in 1861, which did a large and Cook. See Hervey Islands. useful business as a government agent Cook's Strait, the channel which in placing war-loans. It subsequently financed the Northern Pacific Railroad, principal islands of New Zealand, disthis leading to the failure of the firm in covered by Captain Cook in 1770.

Cooke, John Esten, author, born at Winchester, Virginia, in 1830; died in 1886. His works include The

more palatable and more digestible. The those sent to British Guiana from Calart is of great importance, not only for cutta in 1839 to supply the want of labor comfort, but also for health. Food is felt after the abolition of slavery. The mainly prepared by submitting it to the coolies employed in Guiana are chiefly action of fire as by roasting, boiling, from India. stewing, etc. Each of these processes develops a different findering the tissues. 1824. He removed to Michigan in 1843. develops a different flavor in food, but they result alike in rendering the tissues, both of animal and vegetable food, softer and much more easily dealt with by the digestive organs. The art of cookery was carried to considerable perfection among of the ancient nations, as for 1867; retired from the bench in 1885, instance the Egyptians, Persians, and Athenians. Extravagance and luxury at land on the Interstate Commerce Comtable were notable features of Roman life mission, of which he was chairman under the empire. Among moderns the Italians were the first to reach a high He ranked among the highest of constidered of the supreme Court and was appointed by President Clevelable were notable features of Roman life mission, of which he was chairman the Italians were the first to reach a high He ranked among the highest of constidered of art in this department. Their

manded a second expedition to the Pacific cooking, like that of the ancient Romans,

this leading to the failure of the minimal 1873, the first event in the great financial panic of that year. The later success of the Northern Pacific Railroad restored factures of linen and large trade in flax.

Cooke, John Esten, author, born at Pop. 3531. (köl'ers), Water, vessels of died in 1886. His works include The Virginia Comedians, Larry of Eagle's in which a liquid can be kept cool by Nest, The Last of the Forests, Hammer cand Rapier, also History of Virginia, Life of Robert E. Lee, etc.

Cooke, Rose Terry, authoress, born at Rest Hartford, Connecticut, in 1827; died in 1892. She wrote Some also extended to those of some other body's Neighbors, Huckleberries, Poems by Rose Terry, etc., most of her writings being short tales of much power and literary merit.

Cookery of food so as to render it coolie emigrants appear to have been more palatable and more digestible. The

open roadstead and a large cotton trade. library, etc.

Pop. 10,629.

numerous legal works, chiefly based on the Constitution of the United States.

Coomassie (kö-mas'sē), a town of Europe and serving as consul for the West Africa, capital of United States at Lyons for three years, Ashantee, which was annexed to Great Britain in 1901. It was taken and burned by Sir Garnet Wolseley, at the head of the English expedition sent against the Ashantees in 1874. Pop. about 30,000.

Coombe (köm), WILLIAM, born at Bristol in 1741; died in 1823, author of several popular works, including the Diaboliad; the Devil upon Evo Sticks in England, a continuation and almost self-educated; but by dint of imitation of Le Sage's novel, but far inferior in spirit and graphic delineation to the original; the Tour of Dr. carried on the manufacture of glue and Syntas in Search of the Picturesque; the History of Johnny Quæ Genus; the History of Johnny Quæ Genus; they owe most of their value.

Coomie (kömē), a present in place of customs duty demanded by Evillent of the Cooper Union' in New York was each listed by Rowlandson's prints, to which they owe most of their value.

The 'Cooper Union' in New York was each listed with the iron manufacture, and philands is glass for over fifty years, and was the History of Johnny Quæ Genus; also connected with the iron manufacture, the railways (he designed and built the first American locomotive), and the telegraphs of the United States.

The 'Cooper Union' in New York was each listed by him 'to Customs duty demanded by Eastblished by him 'to Customs they owe most of their value.

Coomic (ko'mé), a present in place of customs-duty, demanded by established by him to furnish a free the kings and chiefs at parts of the West African coast for permission to trade with the natives.

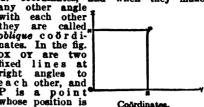
New York was education in art and practical science. West African coast for permission to trade with the natives.

The 'Cooper Union' in New York was education in art and practical science. West African coast for permission to trade with the natives. Coomptah (köm'ta), a town of Ining and other branches of art; evening dia on the sea-coast, in classes, in which young men and women the presidency of Bombay, about 330 are taught art, engineering, chemistry, miles s. s. E. of Bombay. It has an mathematics, etc.; free reading-room and

Fop. 10,629.

Cooper (kup'er), Sir Astley Pastorn in Norfolkshire in 1768; died in 1841. He studied medicine in London, jects. One form of cooperative societies and attended the lectures of John Hunter. After visiting Paris in 1794 he was appointed professor of anatomy at Surgeon's Hall, and in 1800 head surgeon of Guy's Hospital. He became a very efforts, and thus securing all the profits of their labors to themselves; but much more common associations are those the great work on Dislocations and Fractures. Shortly afterwards he became president of the Royal College of Surgeons, and honors and titles of every kind poured in on him.

COOPET. James Fenimore, an Ameri-Cooperative Societies honors and titles of every kind poured at as near as possible the prime cost. Associations of the former kind are thus associations for production, those of the latter for distribution, by means of what ton, New Jersey, in 1789, studied at Yale College, and entered the American Stores. Coöperative societies of the latnavy as a midshipman at the age of ter kind have been established very widely in Great Britain. one of the first and of Procaution, the first production of his pen. Though successful, it gave no scope for his peculiar powers, and it was not till the production of the Spy and the Pioneers that he began to take a high place among contemporary age has been deducted for interest on flow of novels dealing with life on the capital subscribed. This society sea and in the backwoods, most of which, commenced in 1844 with only seventeen Pathfinder, Deerslayer and Last of the more than \$1,300,000. A striking feature in connection with the societies in the North of kingland, where they are very numerous and flourishing, is the formstion of an association of cooperative with least of the properative Wholesais Society, for the purpose of making their purchases on as large ascale as possible, so as to increase they are called properative Wholesais Societies, with sales are they profits. There are now in Great Britain about 1300 societies, with sales are they are alled as amounting to \$150,000,000 a year. Similar associations have been formed for the benefit of other than the working classes, the benefit of other than the working classes, and the service, etc. The Civil Service, Supply Association of London is the most extensive of these, and has been very successful, the annual sales amounting to about \$8, 500,000. Manufacturing associations of all kinds have been tried on the European continent, but neither there nor on the privation of the continent, but neither there nor on the continent of the conti



medicine, especially in affections of the mucous membranes (as those of the Copartnership. See Partnership. urino-genital organs).



Copaiba Plant (Copaifera officinalis).

Copais (ko-pā'is), or TOPOLIAS, a lake or marsh of Greece in Bœotia, enclosed by mountains on every side, and forming a shallow expansion of the river Cephissus some twenty miles broad, the water having numerous subterranean outlets to the sea. In 1881 a French company was formed for draining the lake or marsh, and thus redeeming some 62,000 acres of land. Operations were commenced in 1881, and the drainage was completed before the end of the century.

Copal (kō'pal) is a gum-resin yielded by different trees in Africa, South America, India and Australia, and differing considerably in quality in its several varieties; but in general it is hard, shining, transparent, and citron-When dissolved in alcohol or turpentine it makes a beautiful and very durable varnish. Indian copal, known in England as gum animé, is produced by Vateria Indica; Madagascar copal from Hymenea verruceso; Brazilian copal from several species of Hymenea and Icica, and from Trachylbium martianum. A substance called fossil copal or copolin is found in some places. It resembles copal resin in color and

Copalche Bark (kō-pal'chā). the bark of the Strychnos pseudoquina (order Euphorbiaceæ), a native of Brazil. The name is also given to the bark of Croton pseudochina (order Loganiaceæ) of Mexico.

divided.

Cope (köp), a sacerdotal vestment, resembling a sleeveless cloak with a hood reaching from the shoulders Cope (kôp). to the feet, worn on solemn occasions.



COPE.

A, Probably Dr. Robert Langton, Queen's Coil. Oxon. 1, Cope. B. Figure from Pugin's Glossary. 222, Cope.

and particularly in processions, by the pope and other bishops as well as by priests. It was one of the vestments retained at the Reformation in the Anglican Church.

Cope, CHARLES WEST, an English painter, born in 1811, studied at the Royal Academy and in Italy, and first exhibited at the academy in 1831. In 1843 he gained a prize of £300 for his picture The First Trial by Jury; in 1844, by his fresco the Meeting of Jacob and Rachael, he secured the commission for one of six frescoes for the House of Lords producing accordingly House of Lords, producing accordingly Edward the Black Prince receiving the Order of the Garter. He executed eight frescoes from English history of the sevnos pseudoquina (order Euphorbiacese), frescoes from English history of the seva native of Brazil. The name is also given to the bark of Croton pseudo-while his other works were numerous, china (order Loganiacese) of Mexico. It resembles cascarilla bark in its properties.

Copan (kō-pan'), an ancient ruined city of Honduras, Central America, on the Copan River, with some remarkable remains of Indian origin.

Coparcenary (kō-par's-ena-ri), in 1848, but retired in 1890.

Cope, Edward Drinker, an eminent is entitled to a distinct share of the ben-filled to a di

is entitled to a distinct share of the ben-efits, while the property remains un-Pennsylvania, in 1840; died in 1897. He was professor of natural history at

Copernicus Copeck

Haverford College 1864-67, and for Thorwaldsen's Museum, containing a many years paizontologist to the United States Territorial Surveys. In 1884 he university buildings, the Vor Frue was appointed curator of the National Museum in Washington, in 1891 became sity, founded by Christian I in 1478, has professor of geology in the University over 2000 students, and a library of of Pennsylvania, and in 1896 was president of the American Association for the Advancement of Science. He gave special attention to comparative anatomy and did excellent work in the systematic carrangement of the fishes and batrachians and some groups of reptiles and the chians and some groups of reptiles and center of the Commerce of Denmark. It mammals. He discovered and described carries on an active trade with Norway, over 1000 species of fossil vertebrata and made extensive explorations in the fossil-bearing strata of the western United exports being grain, butter, cheese, beef, States and elsewhere. He made important contributions to the theory of foundries and machine-works, extensive evolution, writing Origin of the Fittest shipyards, woolen and cotton mills, por-States and elsewhere. He made important contributions to the theory of evolution, writing Origin of the Fittest and Primary Factors of Organic Evolution, also many works and papers on systematic anatomy and descriptions of fortes, etc. Sugar-refining and tanning the Cretaceous and Tertiary Vertebrates. His Estinct Vertebrate of the Ecoene for the most remarkable types of mammalia ever discovered. He purchased the American Naturalist in 1891 and edited from the impression of St. George bearing a lance, the hundredth part of a silver rouble, or about the eightieth part of a paper rouble. It is equal in value to about three-fourths of a cent.

Copenhagen (ko-pen-hagen; Danish Kidbenhavn, merchants' haven), the capital of Denmark, on the Sound, the larger and older portion of it on the east side of the Island of Zealand, a smaller portion on the north point of the island of Amager, with a branch of the sea forming the harbor between them. The old fortifications, which formerly separated the city from its extensive suburbs, have been leveled and converted into promenades, and a motices. Returning to his own country, site of the old town and embracing the was made canon in the cathedral of the sear forming the harbor between them. The old fortifications constructed on a grand scale, far beyond the suburbation in the cathedral of the sear forming the matical and astronomy, and in 1500 modern system of fortifications constructed on a grand scale, far beyond the submarks and astronomy, and in 1500 matter, the capital of Dencark, being the port, and produces also watche, clocks, pianocore, shippards, wollen and converted into promenades, and a sundler of the seaf forming the harbor between them. The old fortifications constructed on a grand scale, far beyond the submark and the cathedral of the seaf forming the creation of the old town and embracing the cathedral of the seaf forming the constructed on a grand scale, far beyond the submark of the submark of the seaf forming the cathedral of the submark of the submark of t

modern system of fortifications contaught mathematics at Rome with great structed on a grand scale, far beyond the success. Returning to his own country, site of the old town and embracing he was made canon in the cathedral of canals to flood the approaches to the Frauenburg, and began to work out his city. These convert it into a great new system of astronomy. Doubting stronghold. The city is mostly well bullt, principally of brick. The chief buildings are the royal palace of Rosenborg with many antiques and precious made them, he was induced to consider articles; the Amalienborg, consisting, the simpler hypothesis that the sun was properly speaking, of four palaces, one of them the usual residence of the sovereign; the palace of Charlottenborg, fundamental truth Copernicus antichnow the repository of the Academy of Arts: the Royal Library, containing the palety revolve. Besides this patch, for he can scarcely be said to have proved many other of the principal facts of astronomical science, such

became Lord Lyndhurst.

Coppee (kop-pā'), HENRY, author, born at Savannah, Georgia, in 1821, was graduated at West Point in 1845. He served in the army through the Mexican war, resigning in 1855 and becoming professor of English literature in the University of Pennsylvania. He was president of Lehigh University afterwards professor of history

as the motion of the earth round its the most ductile and malleable of metals; axis, the immense distance of the stars it is more elastic than any metal except which made their apparent position the steel, and the most sonorous of all exsame from any part of the earth's orbit, cept aluminium. Its conducting power etc. His general theory also enabled for heat and electricity is interior only him to explain for the first time many of to that of silver. It has a distinct odor the important phenomena of nature, and an unpleasant, metallic taste. It is such as the variations of the seasons and the precession of the equinoxes. The exposure to the air, and becomes covered work in which Copernicus explained his theory, De Orbium Calestium Revolutionibus ('On the Revolutions of thin plates, and rarely in regular crystate Celestial Orbs'), was completed in 1530, and published at Nuremberg in ary rocks. Blocks of native copper have 1543. He was not excommunicated on sometimes been obtained weighing many account of it. He died at Frauenburg tons. Its ores are numerous and abundant. Of these, several contain sulphur Copianó (kō-pe-a-pō'), the name of a account of it. He died at Frauenburg in 1543.

Copiapó (kō-pe-a-pō'), the name of a river and a town in Atacama, Chile. The river flows west from the Andes to the Pacific, and has a course of 155 miles. About 30 miles from the sea is the town of Copiapó, or San Francisco de la Selva, the center of an important ores; and copper of copper (Cuso) forms crystals of a tant mining district. Pop. 10,287. The seaport, Caldera, stands at the mouth of the river and has about 2800 inhabitants.

Coping (kō'ping), the top or upper copper carry the rainwater clear of the wall.

Copley (kop'lē), John Singleton, a distinguished painter, born in 1737 at Boston, Massachusetts; died in London in 1815, where he had settled in 1776, acquiring a reputation as a historical painter. He was elected a member of the Royal Academy in 1779. His most celebrated picture is the Death of Lord Chatham, now in the National Gallery. His son became Lord Lyndhurst.

Coppee (kop-pā'), Henry, author, born at Savannah, Georgia, in 1821, was graduated at West Point in 1845. He served in the army through the Mexican war, resigning in 1855 and

Copper is extracted from its ores either by the dry or the wet process. For the former, what is known as the Welsh process is most common in the Cornwall mines of Great Britain, and may be described. It consists in alternately roast-He was president of Lehigh University mines of Great Britain, and may be de1866-75, afterwards professor of history scribed. It consists in alternately roastthere, and in 1874 was made a regent of ing the ore, and then smelting it in a
the Smithsonian Institution. He wrote furnace with a suitable slag, until imElements of Logic, Elements of Rhetoric,
Conquest of Spain by the Arab-Moors,
fore this stage is reached a metallic
etc. Died in 1895.

Copper (kop'er), one of the most has been produced, technically known as
riving its name from Cuprus, large supriving its name from Cuprus, large supsequently a tolerably pure sulphide of
plies having in Greek and Roman times copper called fine metal. The blister
come from that island. It is a metal copper is refined by burning off the suloff a pale-red color tinged with yellow;
the was president of Lehigh With a suitable slag, until immetals copper sulphur and iron
has been produced, technically known as
matt. regulus, or coarse metal. and subriving its name from Cuprus, large supplies having in Greek and Roman times
copper called fine metal.
The blister
copper is refined by burning off the sulopper is refined by burning off the sulphur, arsende, and other volatile imher copper is refined by burning it with a
least copper is refined by burning off the sulopper is refined by burning off the sulphur, arsende, and other volatile imleast copper is refined by burning off the sulphur, arsende, and other volatile imleast copper is refined by burning off the sulopper is refined and sulphide of the metal.

and, if found satisfactory, the copper pyrites, is cast into ingots. In extracting the Conne metal from pyrites by the wet process, Copper Glance the ore is first roasted to get rid of the gray color. It contains calcined residue, still containing sulphur, land, and in many European countries. heated in ovens. The copper is thus converted into chloride, part of which volatilizes, but is condensed, along with arsenic and other substances, by passage through flues and water-condensers. The converted into chloride part of which transferred to the results of the same genus as the water-sage through flues and water-condensers. In the same genus as the water-sage through flues and water-condensers. While it After some hours the calcined mixture has no rattle, its bite is as deadly as that is raked out of the ovens, cooled, and of any snake of its size. transferred to tanks, where it is ex-hausted by successive treatment with Copperheads, an epithet applied to hausted by successive treatment with Northerners during the Civil War. The dium, and iron salts, is next heated along of the term, probably having in mind the with scrap-iron. Copper precipitates in characteristics of the snake of that name. the form of a ruddy, lustrous, tolerably compact mass, with a crystalline appearance, and mixed with metallic iron and without a previous hint of his animosity. He never comes out into the open. Simpicked out, the precipitate washed and traited out, the precipitate washed and drained, and then rendered compact by heating in a furnace. A slag containing of the title. During the European war the oxide of iron forms, and the copper, when judged sufficiently pure, is refined and toughened in the run into molds. Afterwards this crude metal is refined and toughened in the run into molds. Afterwards this crude metal is refined and toughened in the run into molds. Some of the allovs of copper, especially those containing tin and zinc, are of considerable in the Coppermine River, a river of as in the Welsh process. Some of the allovs of copper, especially those containing tin and zinc, are of considerable of Kupferniokki, we importance, e. g., bronze, an alloy comimportance, e. g., bronze, an alloy com-posed of varying parts of copper, and tin: bell-metal also produced from an alloy of copper and tin; British bronze coinage, copper 95, tin 4, zinc 1. Copper age, copper 30, tin 4, zinc 1. Copper is applied to a great many useful purposes. In sheets it is used for sheathing the bottoms of ships, covering roofs and domes, the constructing of boilers and stills of a large size, etc. It is also used in electrotyping and engraving, for various household utensils and fittings; but its use for household utensils is by no means free from danger on account of the action of acids on it, which produces verdigris. As it is one of the best conductors of electricity, it is now largely employed for this purpose, especially in conducting the powerful currents used in power transmission.

Copperas (kop'e-ras), sulphate of iron, or green vitriol (FeS-04.7HsO), a salt of a peculiar astringent taste and of a fine green color. When exposed to the air it assumes a brownish hue. It is much used in dyeins black Copra and in making ink, and in medicine as tonic. The copperas of commerce is oil has tonic been expressed, a consid-

wooden pole. The quality is then tested, usually made by the decomposition of iron

(Cu₂S), a copper ore of a lead or ironlarger proportion of sulphur, then the gray color. It contains a high percentage

of copper, sulphate and chloride of so- Ohioans are given credit for the first use dium, and iron salts, is next heated along of the term, probably having in mind the with scrap-iron. Copper precipitates in characteristics of the snake of that name.

tic Ocean, in lat. 68° N.; long. 116° W.

Copper-nickel, or KUPFERNICKEL, an ore of nickel, an alloy of nickel and arsenic, containing about 60 of the former and 40 of the latter, of copper color, found in the mines of Westphalia and elsewhere. It often accompanies cobalt and silver ores. Called also niccolite.

Copper-plate, a polished plate of copper on which the lines of some drawing or design are en-graved or etched to be printed from; also a print or impression from such a plate.

Copper Pyrites (pi-rī-tēz), or yellow copper ore, a double sulphide of copper and iron, composed in equal parts of copper, sulphur and iron. It occurs in metalliferous veins and iron. and is the commonest of the ores of copper.

(kop'is), or Copse Wood, a wood in which the trees are Coppice cut periodically as they attain a certain size. The term is also used in a general sense for a wood of small growth, or consisting of underwood and brushwood.

the Pacific islands.

Coprolites (kop'rō-lits), the term originally applied to the formal way in their religious services. fossil excrements of extinct animals, the formal way in their religious services. It is regarded as the direct descendant chiefly lizards or sauroid fishes. They of the ancient sacred language of the resemble oblong pebbles, and are found mostly in the Lias and Coal Measures. There is a toterably abunmostly in the Lias and Coal Measures. There is a toterably abunmostly in the Lias and coal Measures and coal Measures. There is a toterably abunmostly in the Lias and chiefly of the ancient way and the carbon and coal Measures.

cee, two species of which, C. trifolia (gold thread), found in Canada and the northern parts of the United States, and C. tecta of Assam, yield a bitter tonic used medicinally.

cient Egyptian race, belonging mostly to the Jacobite or Monophysite sect. Reduced by a long course of oppression and misrule to a state of degradation, the number and national character of the Copts have greatly declined. At present they do not amount to more than perhaps 350,000. Their costume resembles that of the Moslems, but they are very generally in the habit of wearing a black turban for distinction's sake. In various other respects they resemble ing a black turban for distinction's sake. In various other respects they resemble the Moslem, and they practise circumcision and abhor the flesh of swine. The women go out with veiled faces like the Moslem women. There are schools for the male children, but very few of the right of publication; or the right which females are taught to read. Confession is required of all. Fasting holds a man, photographer or sculptor has in prominent place in the life of the Copt, who is, indeed, required to fast (that In the case of encyclopædias, reviews, is, to abstain from all animal food except fish) during the greater part of the copyright is vested in the proprietors every year. The head of the Coptic females are taught to read. Confession a designer, engraver, painter, draughtsis required of all. Fasting holds a man, photographer or sculptor has in
prominent place in the life of the Copt, his designs, engravings, paintings, etc.,
who is, indeed, required to fast (that
is, to abstain from all animal food except fish) during the greater part of the copyright is vested in the proprietors
every year. The head of the Coptic as if they were the authors. It is, of
Church is the Patriarch of Alexandria, course, quite competent to the authors
who is also head of the Abyssinian
of Such articles to reserve the right of
Church. He is regarded as the successor
of St. Mark, by whom the Copts believe
Dramatic and musical compositions are
that Christianity was introduced among
them. They are very strict and ex-

erable article of commerce in many of What is called the Coptic language is the Pacific islands.

No longer spoken, Arabic having taken

purpose they are reduced to powder and other. Of late years photography has used as ground bones, or treated with sulphuric acid, so as to form superphosphate of lime.

Copse See Coppice.

(kop'tis), a small genus of plants, nat order Ranuncular copy of a work of art made by the called the copy of a work of art made by the called the copy of a work of art made by the called the copy of a work of art made by the called the copy of a work of art made by the called the copy of a work of art made by the called the c plants, nat. order Ranunculacopy of a work of art made by the artist or species of which, C. trifolia read), found in Canada and the parts of the United States, and of Assam, yield a bitter tonic licinally.

(kopts), a name given to the Christian descendants of the analyptian race, belonging magnetic reads.

manor. Copyhold property cannot be now created, for the foundation on which it rests is that the property has been possessed time out of mind by of ments are within the manor. In 1858
At l'arliament passed a law which enables han either the lord or tenant of any copyhold lands to compel enfranchisement of the land and convert it into freehold, either in consideration of a fixed sum or of an annual rent.

that Christianity was introduced among subject to the same copyright as books. them. They are very strict and exThe exclusive right of performing draculative in their religion, but a great matic and musical compositions not number have latterly changed their early printed or of causing them to be perfaith. The Copts are quiet and industrious, have a good capacity for business, signess under the same rules of copyright but are said to be servile and crafty, as those relating to books. Lectures and The Coptic scribes form a close guild, public speeches are the property of the

order for the statutory registration fee of used in turnery for making umblemastic. As regards books or periodicals in handles, etc. the English language, it is necessary that the type shall be set, the electrotypes made, and the printing and binding wholly performed within the United States in stands near the sea, on a river of the order that advantage may be taken of her copyright law. The requirements also extend in seasons! to the illustrations of a seasons! order that advantage may be taken of her copyright law. The requirements also extend, in general, to the illustrations of a book, and to separate lithographs or photo-engravings. The work, however, may be first published in another country provided it is entered in terms of the United States law within a period varying from thirty to sixty days. Works not ing from thirty to sixty days. Works not in the English language may be printed and bound abroad, and yet be eligible for

copyright here.
In 1885-86 a convention was held at
Berne between representatives of a large number of nations for the purpose of considering the question of international copyright. As a result of their deliberation an agreement was reached whereby a work copyrighted in one country should a work copyrighted in one country should receive the same privileges in all. In 1909 a congress held at Berlin proposed that the uniform term of the life of the author and fifty years should be adopted by all the parties to the Berne convention. Another provision prevented the United States from acceding, as at that time all works (now works in the English language of the beautiful head to be propertied by the province of the beautiful head. guage only) had to be manufactured here, in order to obtain the privilege of copyright. The act of 1909, however, enables copyright agreements to be entered into with other countries, and the existence of such an agreement with Britain practically enables books manufactured in the United States to obtain all the benefits of the Berne Convention. The United States has also copyright agreements with a number of other countries.

The remedy for an infringement of copyright is an action of damages against the infringer.

author and cannot be published without Coquelin (kok-lan), BENOIT Conhis consent, unless they are delivered on

Pop. 16,161.—Porto Coquimbo, the port of the above, from which it is distant 7 miles to the s. w., has smelting works and a large export trade, chiefly in copper and the precious metals. Pop. 6270.—The province is rich in copper, silver, gold, and other metals, and is mountainous. Pop. 165,000.

Coquito (kō-kē'tō), the Jubaa spectabilis. a very beautiful palm of Chile, allied to the cocoanut palm, growing to the height of 40 to 50 feet, and yielding a rich, sweet sap which when boiled is called palm-honey.

when boiled is called palm-honey.

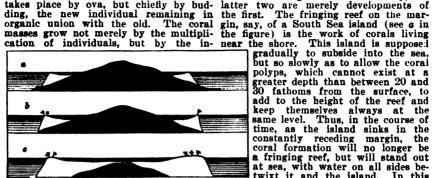
Coracias. See Rollers.

Coracle (kor'a-kl), a small boat or canoe of oval form and made of wickerwork covered with skins. It was used by the ancient Britons, and something similar is still in use among Welsh fishermen and on the Irish lakes. Coracoid Bone (kor'a-koid), a bone in birds joining the sternum and shoulder-bone, and giving support to the wing. In mammals it is represented by the coracoid process of the scapula.

the scapula.

Coral (kor'al), the name applied to the calcareous, stony structures secreted by many of the Actinozoa (sea-anemones, etc.) which form one of the divisions of the colenterate zoophytes, and also applied to the animals themselves. Two kinds of corals are distinguished by naturalists, sclerodermic and sclerobasic, or those in which the calcareous skeleton is developed in the walls of the body, as in the reef-buildwalls of the body, as in the reef-building corals, and those in which (as in

the red coral of commerce) the skeleton reef the barrier reef, and atoll or lagoon is external or cuticular. Reproduction reef. According to Darwin's theory, the takes place by ova, but chiefly by bud-latter two are merely developments of ding, the new individual remaining in the first. The fringing reef on the marorganic union with the old. The coral gin, say, of a South Sea island (see a in



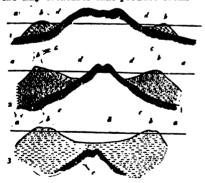
Formation of Coral Reefs, according to Darwin.

Formation of Coral Reefs, according to Darwin.

Formation of Coral Reefs, according to Darwin.

Crease in height of each of the latter, tinue to sink till it disappear altogether, which, as they grow, become divided the island. In this way the barrier reef is formed (as in b). But should the island contransversely by partitions. The animal, closing a lagoon and constituting the distended with ova, collapses on their atoll (c). By accretions of various kinds discharge, and thus becomes too small this finally rises above the surface of for the cup which it formerly occupied; the sea, is taken possession of by a it cuts off the waste space by a horitopical vegetation, and at length becomes tropical vegetation, and at length becomes the habitation of man. Darwin's theory is by many not considered satisheight of the mass. It is in this way factory, however, and these offer an explanation of the formation of the coral reefs without the process of subsidence.

The coral of commerce is the production of various polyps, and is of different colors and internal structure. The red, pink, and black sorts are the most highly prized. The red coral has a same level. Thus, in the course of time, as the island sinks in the constantly receding margin, the coral formation will no longer be a fringing reef, but will stand out at sea, with water on all sides betwixt it and the island. In this way that the sland. In this way the same level. Thus, in the course of time, as the island sinks in the constantly receding margin, the coral formation of the island continue, as the island. In this way that the a fringing reef, but will stand out at sea, with water on all sides betwixt it and the island. In this way that the a fringing reef, but will stand out at sea, with water on all sides betwixt it and the island. In this way that the island continue to sink till it disappear altogether, the twixt it and the island continue at sea, with water on all sides betwixt it and the island. In this wa



These coral reefs appear under three Coral Fishes, a name given to sev-principal types, namely the fringing

keep themselves always at the same level. Thus, in the course of

red, pink, and black sorts are the most highly prized. The red coral has a branching, shrub-like form, and, with other kinds, is found abundantly in the Mediterranean. The coral fishery, as it is called, is carried on in various parts of the Mediterranean, the principal localities being the southwest coast of Corsica, where the finest quality is found, the coast of South Italy, and the north coast of Africa (Algeria and Tunis). The raw coral is wrought chiefly in Leghorn, Genoa and Naples. The coral is brought up from the bottom by means of net-work bags with wide meshes, attached to crossbeams of wood that are let down from a vessel by a line. Italy takes the leading part both in fishing for coral and In its preparation for the market. Coral is capable of taking a good polish, but is not susceptible of receiving the finer execution of a gem. In composition evel; b, Coral-reefs; p. Primitive land; d. Portion of it consists chiefly of carbonate of see within the reef, forming a channel or lagoon.

These coral reefs appears and the second reefs appears are second reefs.

genera, belonging to the *Chætodontidæ*. Corbel (korbel), in architecture, a piece of stone, wood, or iron pecially about coral reefs, and are all projecting from the brilliantly colored. The most important vertical face of a is the *Holoconthus imperator*, the 'em-wall, to support peror of Japan,' which measures about some superincum-15 inches in length, and is the most es- bent mass. Cor-

teemed of all the Indo-Pacific fishes.

Coralline (kor'al-In), a term popularly applied both to seame and a re of name weed with rigid. calcareous fronds and to many of the zodohytes.

many of the zoophytes.

Coralline, an orange-red color, prepared by the action of ammonia at about 300° Fahr. upon rosolic projecting course called a corbel-table. acid, or upon the washed residue of the action of a mixture of sulphuric, ox-alic, and carbolic acids. It is used for dyeing silk, and is also printed upon cotton.

Coral Rag, in geology, the highest member of the middle Oölitic series—a variety of limestone containing an abundance of petrified corals, occurring in some parts of England.

Coral Root. See Dentaria.

Coral Sea, part of the Pacific on the northeast of Australia, between it and the Solomon Islands and

cies is found in woods and thickets in

flowers.

Coranach. See Coronach.

Cor Anglais (kor-an-gla: French, coran Art Gallery at Washington, a beautiful white marble temple containing wind instrument of the reed kind, simi-splendid oil paintings.

Corato (kō-rá'tō). a town of S. Italy; ANNE CHARLOTTE, province Bari. Pop. 41.573. Charlotte Corday, was

Northamptonshire.



Corbel-table.

Corbie Steps (kor'bi), in architec-ture, steps into which the sides of gables from the eaves to the apex are broken. They are common in old Scotch architecture, into which they were probably introduced from France.

tween it and the Solomon Islands and the New Hebrides.

Coral Snake, a genus of small venomous snakes of the same family as the cobra. The typical special spe See Jute.

Coral-tree, trees and shrubs of the the name of leguminous genus Erythrina, natives of Africa and America, with trifolioate leaves and beautiful scarlet spikes of panilionscales.

(kor'kō-ran), WILLIAM WILSON, banker, born in Georgetown, District of Columbia, in 1798. He engaged in the banking business, accumulated a large fortune. tiring from business in 1854, plans of benevolence engaged him till his death in 1889. His charities are estimated to exceed \$5,000,000. He founded the Cor-

wind instrument of the reed kind, similar to the oboe, and possessing a compass of like extent, but of lower pitch. Its compass is from F fourth line in the bass to B flat above the treble staff.

Coraopolis (kor-a-op'u-lis), a town of Coraopolis (kor-a-op'u-lis), a town of Allegheny Co., Pennsylvania, 10 miles N. w. of Pittsburgh. It is in a petroleum and natural gas district. Pop. 5252.

Corato (kō-ra'tō), a town of S. Italy;

ANNE CHARLOTTE, commonly called Charlotte Corday, was born in Norman-

Corato

(RO-TA TO). a fown of S. Hally; ANNE CHARLUTTE, Commonly called province Bari. Pop. 41.573.

(kor-bāy), a town of France, dy in 1768, of a family which counted dep. Seine-et-Oise, where the sensonne enters the Seine; various manufactures. Pop. 9756.

RNE CHARLUTTE, COMMONIY Called Corday, was born in Norman-Charlet Corday

spirator against the republic, and assassinated by villains hired for that purpose. This, as well as a deep-rooted and dirty; the principal square, howhatred against all oppressors, determined charlotte Corday to free her country beauty of its colonnade. The cathedral from Marat. Having obtained an interview with hiarat at his own house, she plunged her dagger into his bosom, Abderahman. The town is well supplied and gave herself up to the attendants, with schools, hospitals, and other instiunder the form the revolutionary trisiderable trade; and under the Moors the leather exclusively manufactured there (cordovan) was exported in all quence of her advocate's defense, she was condemned to the guillotine, and was executed on July 17, 1793.

Cordele (kor-del), a town of Crisp was condemned to the guillotine, and was cexecuted on July 17, 1793.

Cordele (kor-del), a town of Crisp Co., Georgia, 9 miles s. of Siena. It is in a timber and agricultural district and has machine shops and manufactures of cottonseed-oil and carriages. Pop. 5883.

Cordeliers (kor'del8rs), originally fell into the hands of Ferdinand III of Castile. Present pop. 58,275.—The province includes the fertile and beautiful valley of the Guadalquivir and the mounts who wore as part of their dress a girdle of knotted cords; afterwards the name given to a society of Jacobins, to which the names of Marat, Danton and Camille Desmoulins gave some reputation. The club lasted from 1792 to 1794, and took its name from their place of meeting.

Cord-grass, Sparting stricts, a Brittens of Siers, Morena, Sparting stricts, and took its name from their place of meeting.

Cord-grass, ish grass, very tough, and used for making ropes.

Cord-grass, spartina stricta, a Britprovince has an area of 62,160 sq. miles, and used for making ropes.

Cordiceps (kor'di-seps), a genus of fungi, some of which are found on dead leaves and branches, while others are remarkable for growing in Northern Africa and the Levant.

Cordilleras (kor-dil-yā'rāz), a Spanish name given to the great chains of the Andes and of Mexico.

Cordite (kor'dit), an explosive composed of guncotton, nitroglycerin and mineral jelly. While in a plastic state it is pressed through a die in the form of a cord and wound upon reels to dry. Various thicknesses are made to suit different sized guns. Its two explosive ingredients, which separately are dangerous to handle, are almost harmless when combined.

Cordon (kor'don), in a military sense, troops so disposed as to present an uninterrupted line of communication, so as to preserve an area either from hostile invasion or from contagious diseases. In the latter sense it is called a sanitary cordon.

Cordova (kor-do-va), an ancient called by the natives Tsiotsien (Cho-sen) so dispassed as to preserve an area either from hostile invasion or from contagious and by the Japanese Korai, whence its European name. Pop. vaguely estimated at 8.000.000 square miles. Sönl. or Seoul, is the capital. The peninsula is traversed through its length by a mountain range, ince of the same name. A part of the

forming a gentle slope on the west side, Russia, Japan made this country a pase which, being watered by the principal of operations, established a protectorate rivers of the country, is exceedingly ferover it, and soon after the close of hostile. In the north the only grain that tilities practically annexed it in Novemcan be grown is barley; but in the south, ber, 1905, by making the Corean governmentation, rice, millet and hemp ment accede to the protocol of a treaty are grown extensively. The ginseng transferring all diplomatic business from root is a production greatly valued in Seoul to Tokio, and setting up a Japan-China and Japan. The domestic aniese governor-general's office in the Corean mals are oxen, pigs, goats, dogs and forming a gentle slope on the west side, Russia, Japan made this country a base



Korean Hats.

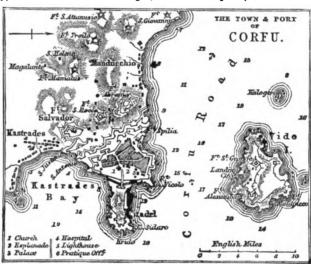
cats, and a small race of horses. Oxen in August, 1910, the Corean king being only are used for agricultural labors, dethroned and the country reduced to the horse being reserved expressly for the status of a province of Japan. As the saddle. Tigers, panthers, foxes, such it was given its ancient name of wolves and sables are abundant. The Cho-sen ('Land of Morning Calm'). manufactures are, generally speaking. Corelli (ko-rel-ē), MARIE, novelist, of rude, and mostly confined to tissues of hemp and cotton, silk, paper and pottery. The peninsula abounds in minerals, gold, silver, iron, copper, lead and coal, and the natives show much artistic convent in France. With excellent musical ability, she composed an opera when The early records of Corea carry us only 13, and later produced several records.

The early records of Corea carry us back to 1122 B.C. Within recent years,

only 13, and later produced several notable melodies. Turning to novelistic novelistic while practically independent, it has been composition, a curious psychological extributary to China, while Japan claimed perience of her own caused her to write rights there arising from ancient con- A Romance of Two Worlds, in 1886. It quests. These conflicting claims led to attained instant success, and henceforth war between Japan and China in 1894, she devoted herself to literature. Venthe result being that Corea was released detta, Thelma, Ardath, Soul of Lilith, from Chinese suzerainty. In her war with Sorrows of Satan, Jane, and many other

works of great popularity were produced. Her works are deeply tinged with mystical and psychical views.

Corfu (kor'tö; anciently Corcy'ra), a great order of polypetalous exogens. Coriaria myrtifolia is a shrub inhabiting the south of Europe and employed by dyers nean, the most northerly of the Ionian for staining black, and also used in Islands, at the mouth of the Adriatic, near the coast of Albania, about 40 miles long, and from 15 to 20 wide; square miles, 227. The surface rises at one point to the height of 3000 feet, the scenery is beautiful, the climate pleasant ancient Sybaris, of which no vestiges and healthy, the soil fertile. Oranges, remain. Pop. 13,272.



citrons, grapes, honey, wax, oil and salt are abundant. A Corinthian colony settled in the island in the eighth century B.C. The Venetians possessed Corfu from 1386 to 1797, the British from 1815 to 1864. Pop. 99,571.—CORFU, the capital, is finely situated on a promontory, which terminates in a huge insulated rock crowned by the citadel; the streets are Italian in style; chief edifices, the cathedral, government palace, and Ionian Academy. There is a good harbor and considerable trade. Pop. 18.581.

Corinnal (kō-rin'a), an ancient Greek poetess of Tanagra, in Bœotown to with Pindar (about 500 B.C.), whom she is said to have conquered five times at musical contests. Only a few fragments of her songs have come down to us.

Corinth (kor'inth) a once celebrated city upon the isthmus of the city upon the isthmus of the with Northern Greece. It was renowned among the cities of Greece, commanded in other parts of Europe. The whole plant has an unpleasant smell, but the fruit, improperly called seed, is very the splendor which wealth and luxury agreeable and aromatic when dry. It could create, which its citadel, the Acroin medicine, and as an ingredient in cookery and confectionery.

cookery and confectionery.

ruins remain to attest its ancient mag-

nificence. It had two harbors, Lechseum among the Romans it was much emony that is now the Gulf of Corinth or Lepanto, and Cenchrese, on the Gulf of Athens or Ægina (anc. Saronio Gulf), the church at Corinth about A.D. 57 or Near Corinth were held the Isthmian 58, which have been admitted as genugames. Besides being one of the most magnificent, it was also one of the most writings of St. Paul by even the magnificent, it was also one of the most most critical assailants of the New Tespolitical vicissitudes Corinth became the the insight which they furnead of the Achsean League, and was consul Mummius, 146 B.C. Julius Cæsar, heresies of the apostolic church.

About a hundred years later, rebuilt it; Coriolanus (kō-ri-o-lā'nus), the

aufaltelafafitatatatatat

conquered and destroyed by the Roman consul Mummius, 146 R.C. Julius Cæsar, about a hundred years later, rebuilt it; thut its commerce could not be restored, though it became a place of note and cient Roman, Caius, or more properly importance. St. Paul lived here a year and a half, and two of his epistles are and a half, and two of his epistles are and a half, and two of his epistles are and a half, and two of his epistles are and a half, and two of his epistles are and a half, and two of his epistles are the Volsci, was taken almost solely by his exertions. He was subsequently shore of the gulf, several miles N. W. banished for seeking to deprive the plefrom the site of ancient Corinth; it is the seat of an archbishop. Pop. 4300.

Corinth, Gulf of, or Gulf of Legal and in particular of the tribuneship; and seeking revenge, he took refuge among the Volsci, the bitterest enemies of Rome, and prevailed upon them to go to war with her. The Volscian army, after making itself master of the cities of Latium, was pitched in sight of Rome before troops could be raised for the defense. The Roman senate made unvarying in width from 4 to 8 miles. A canal, begun in 1882 and about 4 miles length the tears of Veturia his mother, long, was opened on August 6, 1893, across the isthmus, and now enables vessels to sail from the Archipelago to the Adriatic without rounding Cape Matapan.

Corinthian Order (kö-rin'thi-an) afterwards assassinated in a tumult while attempting to justify his conduct. The story of Coriolanus, which is now of which the most regarded as legendary, forms the subject of one of Shakespere's plays. of which the most regarded as legendary, forms the subject characteristic fea- of one of Shakespere's plays.

characteristic fe ature is the capital of
the column, which
is ad or n ed with
beautifully carved
acanthus leaves, but
varies considerably
in minor details.

The column is gencrally fluted, with a
fluttings, and stands
tupon a base. The
entablature is variously decorated, especially the cornice;
the frieze may be
full times and stands
the frieze may be
full times room the sea, and besides an
upper harbor at the city itself, and
upper harbor at Corinthian Order.

76,122.—The County is the most southerly and the largest in Ireland, having an area of 2890 square miles, of which Palermo. Pop. 14,803. less than a fourth is under crops. The Corliss (kor'lis), George Henry, inwest part is mountainous, the north and east very fertile. The coast is indented New York, in 1817. The construction with numerous bays and inlets, of which of stationary steam engines has been the more important are Bantry Bay, revolutionized by his inprovements, he Kinsale and Cork harbors. The climate having invented many ingenious devices, is remarkably mild, though moist. The A single engine made by him moved all county is watered by the Bandon, Lee the machinery in the Centennial Exhiand Blackwater. Cattle, sheep, pigs and bition of 1876. He died in 1888. quantities of butter are exported. The county has seven nolitical divisions, each sending

north of Africa, and is distinguished by the great thickness and sponginess of its bark, and by the leaves being evergreen, oblong, somewhat oval, downy underneath, and waved. The outer bark falls off of itself if let alone, but for commercial purposes it is stripped off when judged sufficiently matured, this being when the tree has reached the age of from fifteen to thirty years. In the course of eight or nine years, or even less, the same tree will yield another supply of cork of better quality, and the removal of cork of better quality, and the removal of this outer bark is said to be beneficial, the trees thus stripped reaching the age of 150 years or more. The bark is removed by a kind of ax, parallel cuts being carnied round the tree transversely and united by others in a longitudinal direction, so as to produce oblong sheets of bark. Care must be taken not to cut into the inner bark. or the tree would be killed. The pieces of cork are flattened out killed. The pieces of cork are flattened out by heat or by weights, and are slightly charred on the surface to close the pores. Cork is light, impervious to water, and by pressure can be greatly reduced in bulk, returning again to its original size. These qualities render it peculiarly serviceable for the stopping of vessels of different kinds, for floats, buoys, swimminghelts or jackets, artificial limbs, etc. Corks for bottles are cut either by hand or by means of a machine. The best corks are cut across the grain.

COTK. EARL OF. See Boyle.

Cork, Fossil, a kind of mineral, a species of asbestos.

west part is mountainous, the north and COTISS ventor, was born in Easton, east very fertile. The coast is indented New York, in 1817. The construction

Corm (korm), the dilated basis of the stem in monocotyledonous plants, which intervenes between the roots and fisheries are important. The county has seven political divisions, each sending a member to Parliament. The county town is Cork; other towns are Queenstown, Fermey, Youghal, Bandon, Mallow and Kinsale. Pop. 404,611.

Cork, is the external bark of a species are the so-called 'root' of the arum and grows in Spain, Portugal and other southern parts of Europe and in the north of Africa, and is distinguished by the great thickness and sponginess of its corrows marinus, a sea-crow), the name of



Harris' Cormorant (Nauopterum Harriei).

Corking-pin, a pin of a large size, the toes are united by a web, and, though formerly used for fixing a lady's head-dress.

the toes are united by a web, and, though excellent swimmers, they are able to perch on trees; color generally black or

dark. The common cormorant of Eu- the United States generally to maize, and rope (Phalacrocorax carbo) is larger frequently in Scotland to oats. than a goose, but with smaller wings. It Corn (Zea Maize), is the most valuable of our agricultural products.



occupies cliffs by the sea, feeds on fish, of our agricultural products, and is extremely voracious. It dives and Nearly five-sixths of the world's supply is ewims with great power, and pursues raised in the United States in some years. In the year 1917, the total recorded was nearly three and one-quarter million bushels. It is also cultivated in Europe, South America and Australia. It needs warm nights, and requires from four to five months in which to mature, hence its range in latitude is lower than that of wheat. It is adapted to a wide range of soil conditions. Its longer season of growth than most other stable crops enables it more fully to utilize the plant food rendered available by the processes operating in the soil under favorable conditions of warmth and moisture. As a food crop it is little used in the United Common Cormorant (Phalacrocórax carbo.)

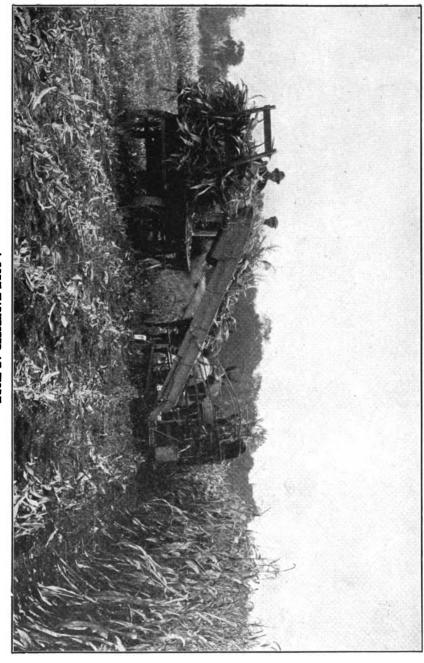
its prey beneath the surface of the water, often to a great depth. Among the Chinese cormorants have long been cultivation and value is one of the gifts trained to fish for man. At first a ring of the Indians to the white man. From is placed on the lower part of the bird's this country its cultivation has extended neck to prevent it swallowing the prey, to the southern countries of Europe, and and in time it learns to deliver the fish to its master without such a precaution being necessary. Another European cormorant is the green cormorant or shag (P. graculus). It is smaller than the common cormorant. Both these species are found on the eastern coasts of America, and there are various other American as well as Australian species.

Cormus (kor'mus). See Bulb.

Cormus (kor'mus). See Bulb.

Corn (Fr. corne, L. cornu, a horn), a hardened portion of the cuticle of the foot, appearing as a sort of distinct growth, resulting from pressure or rubbing. Corns are generally found on the outside of the toes, but sometimes between them. on the sides of the foot. on the outside of the toes, but sometimes portance and has a score or more varibetween them, on the sides of the foot, or even on the ball. They appear at ada, chiefly in Ontario; it is cultivated first as small, dark points in the hardened skin, and in this state stimulants or escharotics, as nitrate of silver (lunar caustic), are recommended, but must be used with great care. Perhaps the most according to size and maturity, into early. efficacious remedy for corns is the application of glacial acetic acid night and cation of glacial acetic acid night and morning, or relieving the pressure by means of a small tuft of cotton placed around the corn. means or a small tuit of cotton placed defit varieties. In the eastern section the around the corn.

Corn, is the generic term for all kinds North. Early Huron Dent. Funk's Goand is applied specifically to the princicap dent. The varieties most raised in pal breadstuff; in England to wheat, in the corn belt of Ohio, Indiana, Illinois,



A CORN HARVESTER AT WORK

The machine cuts the corn, ties it in bundles and deposits the bundles in the wagon which accompanies it.

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Iowa, Missouri and Eastern Kansas and Agriculture in Rome, Italy, the world crop Nebraska are Reed's Yellow, Funk's Yelow, Leaming, Reilley's Favorite, Clarage, United States, 2,865,900,000 bushels; Hogues' Yellow, Hildreth's Yellow, Hia-Japan, 4,102,000 bushels; Switzerland, watha Yellow, Boone County White, 157,000. Total for three countries, Johnson County White, Silver Mine, St. 2,870,159,000 bushels. Charles White and Kansas Sunflower. In the northern portion of the corn belt, Michigan, Wisconsin, Minnesota, the Dakotas and the northern sections of Illinois and Iowa, the commonest varieties are Silver Pride, Pride of the North, Wisconsin No. 7, Murdock, Wimple's Yellow, Pickett's Yellow and Golden Eagle. In the southern States are the large-eared, varieties, Huffman, Excelsior, Chisholm, McManin's Gourdseed, St. Charles' White, Boone County White, Rockdale, Singleton, and Ferguson's Yellow, and the two-eared varieties, Lewis' Prolific, Hickory King and Neal's Paymaster, and among the prolific varieties bearing two or more ears on a stalk are Cocke's, Albemarle, Dakotas and the northern sections of Illi-

cars on a stalk are Cocke's, Albemarle, Whatley's, Mosby's, Hastings, Marlborough and Batts'.

The best-known flint varieties include Longfellow, King Philip, Hickney's Yellow, Taylor's Improved and Davis' Eight-Rowed. It is to be noted that the variety best adapted to any locality can be riety best adapted to any locality can be determined only by local tests, the results of which by local farmers' organizations co-operating with State experiment sta-tions has tended greatly to improve, both the selection of varieties and the yield per acre and to emphasize the importance of

acre and to emphasize the importance of the selection of the variety that will give the best results in the locality.

More than 70 per cent. of the corn raised in the United States is produced in ten States: Illinois, Iowa, Missouri, Ne-braska, Indiana, Kansas, Ohio, Texas, Oklahoma and Kentucky. The greater part of the yield of the United States, over four-fifths, is consumed within the counties in which it is grown, being fed to hogs and cattle, by which use, in the resultant pork and beef, it is worth six times as much as when used for human food. One great drawback to the exporta-tion of corn as human food, at present, is tion of corn as human food, at present, is the general ignorance in Europe of its value in this respect, and of how to handle it, nor are there suitable mills for grinding

Corn requires for its highest production warm, deep and loamy soils with plenty of moisture. The critical period in the of moisture. of moisture. The critical period in the great corn belt is during July and August, during which the rainfall determines largely the season's yield; it is found that between the average yield of corn and the July rains there is a close correlation. Poor land is not suitable for corn, the growth of stalk requiring abundant plant food. Nor can it be grown continuously without diminishing yields on the same soil, no matter what manure or fertilizer is applied. A rotation of crops is essential to the maintenance of good yield. From four to seven years are the periods of rotation usual but in the retation of of rotation usual, but in the rotation at least one leguminous crop should be planted, but the crops for rotation vary according to their value in different sections. Corn succeeds best on sod land. Plowing for corn is done either in fall, winter or spring, in many sections preferably in the fall. Deep plowing has great advantages fall. Deep plowing has great advantages and disking and harrowing are of the and disking and narrowing are of the highest importance to secure a loose and friable soil. The character and quantity of fertilizer best adapted depend on the nature and condition of the soil and nature and condition of the soil and other considerations, but stable manure is particularly valuable, second to which is a complete fertilizer having phosphoric acid as its chief ingredient. Phosphorus added to the stable manure also promotes an increased yield. Planting should not be done till the soil is warm enough to germinate the seed quickly, the time varying in different localities. A wet cold soil will rot the seed. It may in general be said that when the leaves of the oak are the size of a souirrel's ear in any locality. the size of a squirrel's ear in any locality, that is the best time to plant corn, but it is better to plant too early than too late. When later planting is necessary early maturing corn is frequently planted. For grain raising 10,000 to 12,000 plants per acre produce the best stand in the great corn belt. The better the soil the greater the number of plants that can be supported. it, nor are there suitable mills for grinding it, and the meal cannot itself be exported the number of plants that can be supply of the people. According to estimates of the International Institute of corn belt. The better the soil the greater the number of plants that can be supply corn dependent of plants that can be supply corn dependent of plants and varieties may be more thickly planted, so may corn grown for thickly planted, so may corn grown for thickly planted, so may corn grown for plants may be increased twenty-five per lack of grinding facilities will disappear, cent. Whether hill or drill planting is and that the day is not far distant when done, the rows are usually 40 inches apart, except in poorer soil, when 44 inches is better. Drilling is easier and is supply of the people. According to estimates of the International Institute of where weeds are very numerous, better

Corneille

results follow check-rowing, which admits of more thorough cultivation. In growing for grain three kernels to the hill where the rainfall is abundant corn is frequently planted in furrows, with a gens, consisting of about 100 species, one lister, a double mold-board plow that of them being the common European dogsimultaneously cuts a deep furrow, plants the kernel, and covers it with earth. In loose soils the grain is planted from 3 to 4 inches deep, according to surface mois-ture, and on wet, heavy soils, 1½ to 2 inches. The kernels should be regular in shape and if necessary, should be assorted in sizes so that the planter plates may be adjusted to pass the different sizes. This result may be obtained by using a seed-corn grader.

Corn

Corn requires careful cultivation to destroy weeds, to conserve and to facilitate the absorption of moisture and to aerate the soil. Deeper rooting of the plant is induced by deep cultivating which should not be repeated after the first cultivation, as injury to the plant roots is unavoidable. For the first or deep cultivation, from four to five inches is general; the later shallow cultivation is generally one to two inches deep. Cultivating is governed by the weed growth and the state of the soil surface.

In the great corn belt the corn is in large part harvested direct from the standing stalks, leaving the latter to waste, except it is pastured. In other sections the whole plant is harvested, three to four hundred are cut and put in shocks to cure properly, after which it is husked, to from three to six weeks after cutting. in from three to six weeks after cutting. and the stacks reshocked to be removed to the barns, or stacked in rows as early as convenient, when sufficiently dry, for feeding during the winter. Shredding or chopping the stalks is economical, as the greater portion of the feeding value is thus utilized.

In storing corn it is desirable, after curing, to leave it in the ear for a time in a well-ventilated crib, protected from rats and mice. Corn shrinks considerably after storing in the crib, especially during the first month, a fact that bears importantly on the question of helding for portantly on the question of holding for market rises. Under an Act of Congress corn is classified into six grades, Nos. 1-6, according to the percentage of moisture, damaged kernels, foreign material, broken corn is classified into six grades, 102. To, may follow.

according to the percentage of moisture, damaged kernels, foreign material, broken and cracked corn. Corn is the most valuable of the great feeding crops. Its selection and breeding is of great importance, and careful labor in this way has advocate-general. He began his dratance, and careful labor in this way has matic career with comedy, and a series secured largely increased yields of grain of vigorous dramas, Mélite (1629). and varieties. The farm value of the corn clutandre, La Vewe, La Suivante, etc., crop of the United States for 1917 was

over four billion dollars, out of a gross farm output of twenty-one billions. See Ensilage.

wood. Several plants of this order are of service as tonics and for the cure of ague, and in America the bark of the Cornus florida, is sometimes used as a substitute for Peruvian bark. See also Cornel.

Corn Aphides, aphides infesting the ears of corn, barley, oats and other grain, and sucking their juices, as the Aphis granaria, or wheat aphis. See Aphis.

Corn-beetle, a minute beetle, Cucajus testaceus, minute beetle, the larva of which is often very destructive to stores of grain, particularly of wheat, in granaries.

Corn-cockle, a well-known weed (Agrostemma Githago), nat. order Caryophyllacese, with large entire purple flowers, very troublesome among crops of grain. Its seeds are said to be poisonous to poultry, swine, etc.

Corn-crake, or Landrall (Cres protensis), is a species of bird of the order Gralls or Waders and of the family Rallids or rails. The crakes differ from the rails proper (Rallus) in having the bill shorter. The common crake of Britain is of a reddishbrown color. It lives in fields and meading and needles and runs emons the own color. It lives in helds and mead-ows, and nestles and runs among the long grass. The name is expressive of its cry. It feeds on worms and insects. Cornea (kor'nē-a), the transparent portion of the anterior coat of the eye. This is destitute of blood-vessels, its nutriment being obtained from vessels, its nutriment being obtained from a system of lymph chambers. It is subject to certain diseased conditions, the most common being inflammation known as keratitis. Also ulcer of the cornea is of common occurrence. This results most often from injury, inflammation of the conjunctiva, disturbances in nutrition, etc. Inflammation of other portions of the eye may accompany ulceration and result in adhesion, closure of the pupil and partial or full opacity of the cornea. A protrusion of the cornea, known as staphylome, may follow.

Cornell Corneille

a high order. In 1635 he entered the with minute quantities of the oxides of field of tragedy with Medea; but it was iron, aluminium, and sometimes of other not till the appearance of his next work, metals, and is used for seals, bracelets, the famous Cid, that Corneille's claim to a place among the great tragic poets was recognized. The Uid was an imitation of a Spanish drama, and though gravely defective in the improbabilities early exhibited a taste for art, and of the plot and other respects, achieved an immense success by a certain subslimity of sentiment and loftiness of under the mative characteristics of Corneille's poetry. After the Cid said to have founded a new school of

Cornel (kor'nel), or Cornelian Tree (Cornus mascala) a species of dogwood, a tree or shrub of the order Cornaceæ, distinguished by the hardness of its wood, a native of Asia and the south of Europe, and cultivated as an ornamental plant and for its fruit in the

a high order. In 1635 he entered the with minute quantities of the oxides of

an immense success by a certain sublimity of sentiment and loftiness of ideal, which are the native characteristics of Corneille's poetry. After the Uid there appeared in rapid succession Horace (1639); Cinna (1639), his masterpiece, and according to Voltaire; and Polyeucts (1640), works which show Corneille's genius at its best. Many of his later pieces exhibit a marked decline. Besides his dramas he wrote some elegies, sonnets, epistles, etc., as well as three prose essays on dramatic poetry. As a dramatist his merits are loftiness of sentiment and conception, admirably expressed in a bold and heroic style of versification and language. But in this constant straining after a heroic ideal he was apt to fall into a declamatory and inflated style. He died in 1684.

Corneille, Thomas, brother of the Spanish school, and were received with even greater applause than those of his brother. The first was Les Engagements du Hasard (1647). His best tragedy is Ariane (1672). He is a dramatist of very secondary rank, laborious and cultivated, but wanting in original power. He died in 1709.

Cornel (Cornus mascala) a species in conjunction with Overbeck, where, in conjunction with other associates, he may be test and to have founded a new school of German art, and revived fresco paint may be said to have founded a new school of German art, and revived fresco paint may be said to have founded a new school of German art, and revived fresco paint may be said to have founded a new school of German art, and revived fresco paint and revived fresco paint may be said to have founded a new school of German art, and revived fresco paint and revived fresco

and Catulius. The only extant work attributed to him is a collection of short biographies, probably an abridgment of a work written by Nepos. These biographies have long been a favorite schoolbook, and popular editions of them are very numerous.

south of Europe, and cultivated as an very numerous.

ornamental plant and for its fruit in the north. One of the finest species, the round-leaved Cornel, O. circinata, is an American shrub, 5 to 10 feet high, common from Virginia to Canada. O. forida, the American dogwood, is a handsome tree 20 to 30 feet high.

Cornelia (kor-ne'li-a), the daughter of married Tiberius Sempronius Gracchus, censor B.C. 169, by whom she was the mother of the two famous tribunes Tiberius and Caius Gracchus.

Cornelian (kor-ne'li-an), or CARNETIUS (kor-

Cornell University, an educational and it has large glass, iron and other institution at works, and extensive trade in coal, Ithaca, New York, was established in lumber, etc. Pop. 13,730.

1867 with funds furnished from the income of 990,000 acres of public land allotted by congress to the State for this for pumping steam engine used allotted by congress to the State for this for pumping water. The pump-rods appurpose, and with a foundation of \$500,000 presented by Ezra Cornell. This loaded so as by their gravity to have has been much augmented by subserved to one end of the beam are quent donations. There are five general the downstroke of the steam piston at courses, including classics, literature and the other end of the beam is used to raise publications. philosophy, science, engineering, architecture, agriculture, etc. The medical school is in New York City. Women are admitted on the same terms as men.

(kor'net), a wind-instrument of former times, originally Cornet

curvilinear or serpentine in form and increasing in diameter from the mouthpiece to the lower end. The modern cornet-dpistons, or corno-pean, is a kind of keyed bugle which has a very agreeable tone, and is much used in orchestras and mili-

CORNET-A-PISTONS. tary bands. Sev-1, Ordinary-shape. 2, Circer et al forms of it are cular shape. in use.

cular shape. in use.

Cornet, formerly the lowest rank of commissioned officer in a regiment of cavalry in the British army, corresponding with the rank of ensign in the infantry. In 1871 this rank was abolished, that of sublicutenant taking its place.

Corneto (korna to), a cameura towa of Italy, province Rome, on a lofty and precipitous volcanic ridge, 10 miles north of Civita Vecchia. Its old walls and its palaces and other edifices present a picturesque appearance. The

Governor of the State of New York. Chemung River, 17 miles w. N. w. of Died in 1904.

Cornell University, an educational and it has large glass, iron and other institution at works, and an extensive trade in coal,

them.

Cornish Language, a Celtic dialect spoken in Cornwall, which died out in the eighteenth century, though isolated words or terms are still in use, and some fragments of literature are still extant. It is allied to the Welsh and Breton. See Celts.

Corn Laws, a name commonly given to certain statutes passed to protect the agricultural interests in Britain. The first form of interference by legislative enactment with the corn by legislative enactment with the corn trade in England, beginning soon after the conquest, was the prohibition of exportation, an expedient in those times to prevent scarcity in a sudden emergency. The exportation of grain was prohibited in the reign of Edward III in 1360-61. Calais and other appointed ports being excepted. This provision was relaxed by a statute of Richard II in 1394, by which exportation was permitted from all ports not excepted by royal proclamation. In 1436, under Henry VI, the exportation of grain was permitted without license whenever the price of wheat did not exceed 6s. 8d. per quarter, and barley 3s. ceed 6s. 8d. per quarter, and barley 3s.
4d. In 1463 a statute of Edward IV
prohibited importation until the price Corneto (kor-na'tō), a cathedral town exceeded the limit at which exportation of Italy, province Rome, on a was permitted. This was the beginning lofty and precipitous volcanic ridge, 10 of protection, properly so called. At the miles north of Civita Vecchia. Its old restoration of Charles II duties were wans and its paraces and other edinces imposed both on exportation and imporpresent a picturesque appearance. The tation, while the old principle of a standardient Tarquinii stood about a mile from ard price, beyond which exportation was Corneto; from the tombs in its necropoprohibited, was retained. At the Boxel imposed both on exportation and imporprohibited, was retained. At the Revolution a new policy still more favorable to the agricultural interest was adopted.

By a statute of William and Mary, a

Corneto; from the tombs in its necropolis a vast variety of Etruscan relics have been obtained. Pop. 5440.

Corn-fly, a name common to several insects of the family Muscidæ, from the injury their larvæ inflict on growing crops.

Corn-husking, assemblage, in for were abolished. The amount of the bouse of an American farmer to assist him in stripping the husks or shucks from his Indian corn.

(korn'ing), a city of Steuben Corning (korn'ing), a city of Steuben Co.. New York, on the country, began, on account of the country.

the increase of population and expansion of mechanical industries, to fall off in this respect, and in 1778 ty'), a wreathed born filled to overdow-became permanently a grain-importing ing with fruit, tlowers and grain; used as country. From this time the main the symbol of plenty. efforts of the agricultural interest, largely represented in the Parliament and the symbol of plenty. largely represented in the Parliament and the ruling classes of the kingdom, were concentrated on obtaining the imposition of prohibitory duties on foreign grain. In 1804, for instance, in case the price of corn was below 63s. a prohibitory duty of 24s. 3d. was to be laid on what surrounded on all other sides by Devonshire, and duty of 24s. 3d. was to be laid on what surrounded on all other sides by the sea; was imported; if between 63s. and 66s., area, 1350 sq. miles or 868,167 acres. a duty of 2s. 6d.; and only when the price had risen as high as 66s. per quarter was the foreign grain allowed to pass at a nominal duty of 6d. With variations of more or less importance the variations of more or less importance the force till 1846, when Sir Robert Peel, influenced by the corn law Cornwall being Brown Willy, 1368 feet. repeal agitation, and more especially by Granite and old red sandstone are the repeal agitation, and more especially by the Anti-Corn Law League, headed by Cobden and Bright, carried a measure repealing the duty on imported corn, except a nominal sum of 1s. per quarter, which also in 1869 was done away with thus leaving the importation of corn expenses.

quent turning, and many expedients are employed to destroy the eggs.

Corno, Monte. See Gran Sasso.

Corn Salad, Valerianella olitoria and other species of the same

Corn-thrips, a minute species of Black Prince in 1337. Pop. (1911) thrips, the Thrips cere-thrips, which does much mischief to grain crops, insinuating itself between the chaff and the unripe seed and causing the latter to shrivel by sucking the juice. It is barely a line long.

Cornwall, a port and manufacturing town of Canada, province Ontario, on the north side of the St. Lawrence, 67 miles above Montreal. Pop. 6598.

Granite and old red sandstone are the chief rocks. The rivers are numerous, but short. Much of the area, especially in the elevated districts, is barren moor-land. About a fifth is under the plow. The chief wealth of the county is in its thus leaving the importation of corn entirely free.

Corn Marigold (Chrysanthěmum sodiminished. Several mines exceed 350)
weed in British cornfields, of a rich copper mine, a few miles north cornge color. weed in British cornfields, of a rich orange color.

Corn-moth, a small moth, the Tinea below the sea. In addition to tin and which is exceedingly destructive to corn sheaves in the field, and to stored grain. From eating into the grains. Salt, fre—There are also valuable deposits of kactions of the property of the sea. The state of the sea of the se lin or china-clay. There are no manufactures, but the fisheries. particularly of pilchard and mackerel, are valuable. Cornwall, with the Scilly Isles. seems to have been the Cassiterides or Tin Islands of antiquity. The natives long mainof antiquity. The natives long maintained their independence against the Saxons, and their country was spoken of as West Wales. Their language also genus, order Valerianaceæ, is extremely easy of cultivation, and can be obtained in the very first days of spring. V. olitoria, called also lamb's lettuce, is a long continued to be Celtic. (See Cornweak, succulent herb 6 to 12 inches high used as a salad in early spring.

Corn Sawfly (Cephus pygmæus), an insect the larvæ of which prey upon wheat and other certains. The female deposits her eggs in the stalk, where the larvæ live upon the interior of the straw and the nutritive juices of the plant.

Corn Sawfly (Cephus pygmæus), and Falmouth (with Penryn). The county gives the title Duke of Cornwall county for the eldest son of the sovereign of the stalk, where the larvæ live upon the interior of the straw and the nutritive juices of the plant.

Corn Sawfly (Cephus pygmæus), and Falmouth (with Penryn). The county gives the title Duke of Cornwall the eldest son of the sovereign of the stalk, where the larvæ live upon the interior of the straw and the nutritive juices of the plant.

Corn Sawfly (Cephus pygmæus), and their country was spoken of as West Wales. Their language also long continued to be Celtic. (See Cornweal Bodmin (county town), Penzance, Truro and Falmouth (with Penryn). The country gives the title Duke of Cornwall the eldest son of the sovereign of Great Britain, and forms a royal duchy. The dukedom was created for the Black Prince in 1337. Pop. (1911)

Cornwallis (korn'wal-is), CHARLES, MARQUIS OF, son of the first Earl Cornwallis, born in 1738. Curocore (kor'a-kōr), a boat of the Indian Archipelago of varificated at Eton and Cambridge, he pelled by oars, and is often manned with served in 1761 as an aide-de-camp in sixty men. Others, as those used in the Seven Years' war; was made colonel of foot in 1766, and finally general. Corody, Corrody (kor'o-di), an allowons of the American war ing enciently due to the king from an he sailed with his regiment, served with ing, anciently due to the king from an distinction under Howe and Clinton, and abbey or other religious house, for the



Lord Cornwallis.

mand in South Carolina with 1000 men. He defeated Gen. Gates at Camden, 1780, and fought Gen. Greene at Guilford in 1781, but six months afterwards was besieged in Yorktown and compelled to surrender, October 17, 1781. This disaster brought an end to the war. In 1786 Lord Cornwallis went to India with the double appointment of commander-in-chief and governor-general, invaded Mysore in 1791, and obliged Tipperson Saib to surrender much territory. poo Saib to surrender much territory. Having returned to Britain, he was created a marquis (1794), appointed lordlieutenant of Ireland, and again in 1805 governor-general of India. He died the following year.

Corn-weevil (-we'vl), a destructive insect which preys upon stored corn. There are various species: ing inserted on the corolla. The primorder Coleoptera, family Curculionidæ, rose, health, gentian, verbena, etc., are genus Calandra. The Calandra granaria included in this division. genus Calandra. The Calandra granaria included in this division.
is a slender beetle of a dark-chestnut Coromandel Coast (kor-ō-man'del; color about one-eighth of an inch long.
It bores a hole and deposits its egg inthe east coast of the Indian Peninsula, afterwards Madras Presidency, or that portion of its

in 1780 was left in independent comsustenance of such of his servants as he thought good to place there for maintenance. Corodies were also retained by the private founders of religious houses and even granted to benefactors, and consisted

even granted to beneractors, and commonstants in the right of sending a certain number of persons to be boarded at an abbey.

Corolla (kö-rol'a), in botany, the portion of the flower inside the calvx: the inner floral envelope. The calyx; the inner floral envelope.

rounds the parts of fructification and is composed of leaves called petals. When there are several free leaves it is called a polypetalous corolla, as in the rose; but when the petals are united by the margins into a continuous structure it is called monopetalous, or more



aa, Many petaled or leaved Corollas. b b, Single petaled or leaved Corollas.

correctly gamopetaled or leaved Corollas.

petaled or leaved Corollas.

but there are many exceptions.

Corollary (kor'o-la-ri; in Latin corollarium), in mathematics, a collateral conclusion, following from a proposition demonstrated.

again in 1805
He died the

Corollifloræ (kor-ol-i-flö'rē), one of
the great subdivisions
of exogenous plants, distinguished by
the corolla being gamopetalous, inserted below the ovary, and by the stamens being inserted on the corolla. The prim-

Coromandel Coast (kor - o-man'del; the east coast of the Indian Peninsula, side of the grain, which is afterwards eaten to the husk by the grub.

Coro (kō'ro), a seaport town of Venenar. It is open, sandy, and has no secure harbors, and the surf renders landing place, but now much decayed. Pop. difficult and often impossible except to 9500.

Coromandel Wood, sata, a tree found in Ceylon. Its ground swears to govern according to the statcolor is chocolate brown, with black utes of Parliament, to cause law and
stripes and marks; it is hard, turns justice in mercy to be executed, and to
well, and makes very handsome furnimaintain the Protestant religion. fure

Corona (kō-rō'na; L. 'a crown')-(1) In astronomy, a halo or venomous serpents. It includes several luminous circle round one of the heavenly genera, as Paammophylas and Coronella. luminous circle round one of the heavenly genera, as Psammophylax and Coronella. bodies; specifically the portion of the Coronella lavis, the smooth snake, is a aureola observed during total eclipses native of Britain. of the sun, which lies outside the chromosphere or region of colored prominences. It is supposed to be an outer the cause of the death of persons killed portion of the solar atmosphere of are or driving suddenly. The coroner's killed portion of the solar atmosphere of exceeding rarity. (2) In botany, an appendage of the corolla in some flowers, coming, as it were, between the corolla and the stamens, well seen in the cup of the daffodil. (3) In architecture, the lower member of the projecting part of a cornice.

Coro'na Austra'lis (the 'south-

Ptolemy's northern constellations, con-

taining twenty-one stars.

Coronach (kor'ō-nah), or Cora-MACH, a dirge or lamenta-tion for the dead formerly customary among the Celts of Scotland and Ire-

Coronado (kor-o-na'do), VASQUEZ DE, a Spanish explorer, born at Salamanca, about 1510. He went to Mexico and in 1540 was put in command of an expedition to the north, with the hope of discovering and conquering a rich kingdom in that direction. Coronado went as far north as Kansas, but failed in all his hopes and became insane from disappointment, dying about 1542.

Coronation (kor-ō-nā'shun), the a monarch's head with solemn rites and a monarch's head with solemn rites and ceremonies. Part of the ceremony usually consists in the oath which the monarch takes, that he will govern justly, will always consult the real welfare of his people, and will conscientiously observe the fundamental laws of the state. In England kings have been anointed and crowned in Westminster Abbey, even to the latest times, with great splendor. der Michallon and Victor Bertin and afterwards in Italy. He exhibited for the

the wood of faith. The Archbishop of Canterbury Diospyros hir- puts the oath to the sovereign, who

Coronellidæ (kor-o-nel'i-dē), a wide-ly-spread family of non-

the cause of the death of persons killed or dying suddenly. The coroner's examination is made in all cases with the aid of a jury, in sight of the body, and at the place where the death happened. If the body is not found he cannot sit. In the United States coroners are elected or appointed. They have no defined responsibility, except in cases of crime, where they can cause arrests.

coro'na Austra'iis (the south of crown'), Coronet (kor'ō-net), such a variety of crown as is worn by princes containing twelve stars.

Coro'na Borea'lis (the 'northern crown'), one of leaves; that of a marquis has leaves with



CORONETS 1, Of a Duke. 2, Of a Marquis. 3, Of an Earl.
4, Of a Viscount. 5, Of a Baron. after the revolution of 1688 remained first time in the salon in 1827, but some unchanged until 1910, when it was deveraged before the high qualities of cided in Parliament to rescind, in the his work were recognized. The fortune coming coronation of George V, the porwhich he inherited from his father enabled tion reflecting on the Roman Catholic him, however, to follow out the bent of his

his life were a continuous triumph. He alion of every corporation, joint frequently painted figure subjects, includ-company and assurance company organing the large sacred pictures, the Flight ized and doing business in the United into Egypt and the Baptism of Uhrist; States, the tax being one per cent. upon but his most characteristic and successful all the net income over \$5000. This is a ing the large sacred pictures, the Flight into Egypt and the Baptism of Uhrist; but his most characteristic and successful work was in landscape. His woodland scenes, painted for the most part at dawn or twilight in a scheme of pale work was in landscape. His woodland national tax, its proceeds forming a part scenes, painted for the most part at of the national revenue. In 1910 these dawn or twilight in a scheme of pale were over \$26,000,000. The law, as susgreens and silvery grays, show a singutained by the Supreme Court, gives the larly subtle feeling for this phase of nasovernment the right to investigate the ture, and are undoubtedly among the books of corporations.

Corps (kor; French for body), a word often used as a military and century to landscape art.

Corps (kor; French for body), a word often used as a military and a political term.—A corps d'armée, or a tropical American army corps, one of the largest divisions palm, the Phytelephas macrocarpa, whose of an army.—Corps diplomatique, the hardened albumen, under the name of body of ministers or diplomatic char-

hardened albumen, under the name of vegetable ivory, is used for small arti-

cles of turnery-ware.

Corporal (kor'pō-ral; French, caporal, from L. caput, the head, the

tion, and not as natural rights. In like manner the rights and powers of an ag-gregate corporation do not consist of the natural rights of the members, but of the natural rights of the members, but of the may be eaten. Regular exercise to suit rights held and duly exercised by the the person's powers should be engaged terms of the corporation. Corporations in. A noted instance of corpulency is may be either public or private. An in- Daniel Lambert, who weighed over 50 stance of the former is a municipal corporation, or more than 700 lbs. Moderate poration under the management of the corpulence may be quite consistent with State or the United States government, health. Private corporations do not fulfill any Corpus Christi (kor'pus kris'ti; function of public government. They Corpus Christi (kor'pus kris'ti; function of public government. They corpus Christi), may be either ecclesiastical or lay. Ec- the consecrated host at the Lord's Sup-

genius, and the last twenty-five years of tariff law of 1909 providing for the tax-his life were a continuous triumph. He ation of every corporation, joint-stock national tax, its proceeds forming a part

body of ministers or diplomatic characters.—Corps législatif (kör lä-zhis-lä-těf), the lower house of the French legislature in 1857-70. Its members were

corporal (kor'po-rai; French, organ, from L. caput, the head, the elected for six years in the proportion.

cer), a petty officer in the American and British armies ranking just above the ordinary private and below the sergeant. He has charge of one of the squads of the company, places and relieves sentinels, etc.

Corporation (kor-pō-rā'shun), in law, in which are vested certain rights or privileges with a view to their preservation in perpetual succession. A corporation may consist of one person only and his successors, when it is called sole (the sovercase) to the regulating of the diet, exercisive deposition of fat. If perpetual succession. A corporation may consist of one person only and his successors, when it is called sole (the sovercase of the regulating of the diet, exercisive corporation. and at length dangerous. In curing corpulency due attention must be paid to the regulating of the diet, exergregate. When a corporation is vested in a single person, that person is looked upon as holding a representative or official position, and these rights belong to and are transmitted by him in virtue of this position, and not as natural rights. In like manner the rights and powers. foods, lean beef, fish, fowl, eggs, is allowed; green vegetables and fresh fruit may be eaten. Regular exercise to suit

may be either ecclesiastical or lay. Ecc the consecrated host at the Lord's Supclesiastical corporations are created to per, which, according to the doctrines of enable religious societies to manage with the Roman Catholic Church, is changed greater facility their temporal concerns. Lay corporations are private corporations body of Christ. This doctrine caused the not under immediate control of some religious body. Corporation Tax, a section of the ordained for the host a particular festival, United States called the Corpus Christi feast. This

was instituted in 1264 by Pope Urban
IV by a bull, in which he appointed the
Thursday of the week after Trinity Sunday for the celebration of the Corpus
Christi festival throughout Christendom.
Christi festival throughout Christendom.

Corpus Christi, a city, capital of
Nueces Co., Texas,

The mouth of

Nueces, as du ty. These parentheses

Nargin as well as

of blood.

name of Corpus Juris Civilis ('body of civil law') in particular was bestowed in the twelfth century upon the general body of legal works drawn up at the or-ders of Justinian, viz. the Institutes, Pandects, Code and Novels; together with the collections bearing on the feudal law appended to them. With the canonical or papal laws the same mode of proceeding has been adopted, and the Corpus Juris Canonici compiled.

Corral (kor-al'), a yard or stockade for cattle.

ton. Oysters and turtles are canned and largely shipped, and it has an ice plant, planting mills, etc. Pop. 8222.

Corpuscles (k o r'pus-ls, kor'pus-kls), the minutest particles of more parts of a line. A tick-mark () substance, such as the electrons supposed also means to lessen space. When words to constitute the atom, and the flying are transposed, they are to be connected particles in the Lesage hypothesis of gravitation. (See next article.) A name also applied to two kinds of minute solid bodies constituting an integral part when a letter is turned, a line is drawn. up for 'is not,' and the mark tr. (transpose) is to be written in the margin. When a letter is turned, a line is drawn Corpuscular Theory of Light under it, and the mark 9, made in the (kor-pus'kū-lar), the theory which explained the phenomena of light by supposing that a luminous body emits excessively minute particles of matter, corpuscules as they were called, which striking the eye produce the sensation of light. Newton held the corpuscular theory, and supported it with great ingenuity. This theory has long been displaced by the smallatory theory (which see).

Corpus Juris (kor'pus jū'ris; 'body of law') is a name given to certain collections of laws. The name of Corpus Juris Civilis ('body of lines as Greene (lawson) is an and the mark of mark of margin. When punctuation is omitted, or requires to be altered, a caret is put at the place, and the comma or period, etc., is placed in the margin, with a stroke behind it, as /. If a mark of undation or superior letter has been omitted, the caret is made as before, and a mark of this sort or placed in the margin. Words which are to be printed in italics are marked beneath with a single line; as, office

(office), if in small capitals, with two lines, as Greece (GREECE); if in full capitals, with three, as James (JAMES).

Where these marks are used in correction, the abbreviations ital., small caps., or caps, should be written in the margin. Where a word printed in italics is to be altered to roman letters, a line is to be drawn under it, and the word rom. writantered to roman letters, a line is to be drawn under it, and the word rom. written in the margin. Where a corrector, after altering a word, changes his mind, and prefers to let it stand, dots are placed under the word in the proof, and prefers to let it stand, written in the margin. When two paragraphs are desired to be joined, the end of the one and the beginning of the other paragraph and the beginning of the other paragraph and the proper word or letter occurs, a line is drawn through it, and the words run in written in the margin opposite. If a clause, word, or letter is omitted. a caret (\Lambda) is marked at the place, and the omission is written on the margin. If a superfluous letter or word occurs, the pen is drawn through it, and the character \(\textit{3}\), signifying dele

Correggio (kor-rej'o), Antonio Al- Galway Bay. It has some fine scenery LEGRI, an Italian painter, on its northern and western shores, conborn at Correggio, near Modena, in 1494. tains numerous islands, and, next to born at Correggio, near Modena, in 1494, tains numerous islands, and, next to Little is known of his life, which was Lough Neagh, is the largest lake in Ire-Little is known of his life, which was loug very retired. Almost the only anecdote land, told of him is that on seing the St. Corilia of Raphael he exclaimed 'Anch 'io son pittore' (I also am a painter), lery to this is doubtful. Correggio is unvivaled in chiaroscuro and in the grace times of his fewers. Among on one of his fewers. and rounding of his figures. Among his best pictures are Night, in which the chief light is the glory beaming from the infant Saviour; the St. Jerome; from the infant Saviour; the St. Jerome; the Marriage of St. Catherine; several Madonnas, one of them (called La Zingarella, or the Gipsy Girl) said to represent his wife; the Penitent Magdalene; the altar-pieces of St. Francis, St. George and St. Sebastian; Christ in the Garden of Olives; the fresco of the Ascension in the Church of St. John, Parma; the Assumption of the Virgin in the cathedral of the same city; the Ecce Homo and Cupid, Mercury and Venus, both in the National Gallery, London. He died in 1534.

Correlation of Physical Forces,

a term introduced by Mr. Grove to denote what may more properly be called the convertibility of the various forms of energy. The energy, for instance, which a bullet in rapid motion possesses, is converted into heat when it strikes the target, the bullet being then warm to the touch. So heat may again be converted. target, the bullet being then warm to the touch. So heat may again be converted into kinetic energy, that is, the form of energy possessed by a moving body; for instance, through the intermediation of a steam engine. Heat is also directly converted into electricity, and electricity into heat. In connection with this doctrine that of the conservation of energy ought also to be studied. ergy ought also to be studied.

Corrèze (kor-raz), an inland depart-ment of France, formed from part of the former province of Limousin, and deriving its name from the river Correze, by which it is traversed; area, 2273 square miles; capital, Tulle. It belongs almost entirely to the basin of the Garonne. Except in a few valleys the soil is far from fertile, heaths occupying a great extent of surface, and agriculture being in a very backward state. Pop. 317,430.

Corrib, Lough (lok kor'ib), a large may result in rupture their lake in Ireland, mostly in strument be inserted or eme County Galway, partly also in County White of egg is very service Mayo, about 23 miles in length, and tracting corrosive action or varying from 2 to 6 miles in breadth. It is a powerful antiseptic. It receives the drainage of Lough Mask Corrugated Iron (k o r'u-ga-ted), through a subterranean channel, its own

Corridor (kor'i-dor; Italian and Spanish), in architecture, a gallery or long aisle leading to several chambers at a distance from each other, sometimes wholly enclosed, sometimes open on one side. In fortification, corridor signifies the same as covert-way.

beaming Corrientes (kor-re-an'tas), a town of Jerome; the Argentine Republic, several lied La the Parana, near its confluence with the said to Paraguay, 832 miles N. of Buenos Ayres.

Magda- It is well placed to serve as an entrepot of goods between the proper parameters the of goods between the upper parts of the Paraguay and the Parana and the seaports on the La Plata. Pop. 30,172. Pop. of province, 299,479.

Corrievrekin. See Corryvreckan.

Corrigan (kor'i-gan), MICHAEL AU-gustine, archbishop, born at Newark, New Jersey, in 1839; died in 1902. He was graduated at the American Catholic bishop of Newark in 1873, was made an archbishop in 1880, and suc-ceeded Cardinal McCloskey as Archbishop of New York in 1885.

Corrobory (kor'o-bo-ri), a dance engaged in by Australian natives in which the performers, with shields in their hands, circle round a fire. Corrody. See Corody.

Corrosives (ko-rō'sivs; Lat. corroders, to eat away), in surgery, substances which eat away whatever part of the body they are applied to; such are glacial acetic acid, burned alum, white precipitate of mercury, red precipitate of mercury, butter of antimony, hydrochloric acid, sulphuric acid, corrosive sublimate,

Corrosive Sublimate, bichloride of mercury (HgCls), a white, crystalline solid, an acrid poison of great virulence. The stomach pump and emetics are the surest stomach-pump and emetics are the surest preventives of its deleterious effects when accidentally swallowed, if used immediately; after a time the corrosive action of the chemical on the stomach may result in rupture thereof if an instrument be inserted or emetic attempted. White of egg is very serviceable in coun-White of egg is very serviceable in counteracting corrosive action on the stomach.

through a subterranean channel, its own waters being carried by Galway River to strengthened by being bent into parallel

furrows. It is largely used for roofing, is Monte Cinto, 8891 feet high, Monte and when dipped in melted zinc, to give it Rotondo coming next, 8775 feet high, a thin coating thereof, is commonly From the east and west side of the chain known as galvanized iron.

Corruption of Blood. See Attainder.

Corsac (kor'sak) or CORSAK (Vulpes

south of Europe to denote those pirates who sailed from Algiers, Tunis, Tripoli, and the ports of Morocco.

Corselet (kors'let). (1) a cuirass or armor to protect the hody

armor to protect the body from injury, worn formerly by pikemen, generally of leather, and pistolproof. (2) The part of a winged insect which answers to the breast of other animals.

Corset (kor'set), a piece of underclothing worn, usually by
women, to give shape to the body, consisting of a sort of closely-fitting jacket,
under the dominion of France. It is
under the dominion of France. It is
notable as the birthplace of Napoleon.

Pop. (1906) 291,360.

Corsicana
should be smooth and elastic, and is
should be especially fitted for the
individual wearer, as no two human
figures are precisely alike. It should be
fremembered, also, that corsets are meant
to preserve a good figure, not to make
one, and any forcible compression of the
shape, especially on young persons, will

Corsica (kor'si-ka; French, Corse), would fall into convulsions, or turn deadly an island in the Mediterpale, and that the bread would find no ranean, forming the French department of same name. It is separated from the island of Sardinia, on the south, by the Strait of Bonifacio, about 10 miles wide; length, N. to s., 110 miles; breadth, near its center, 53 miles; area, 3377 square miles. The east coast is almost unbroken, but on the west coast a number of deep bays follow in rapid succession. The interior is traversed by a shire; erected ironworks, and studied with mountain chain, the culminating point great success methods of improving the process of manufacturing iron. By the

numerous streams flow to opposite sides of the coast, generally mere torrents. With the exception of some marshy dis-Corryvreckan (kor-rē-vrek'an), a tricts on the east coast, the climate is place on the west excellent. There are fine forests containing pines, oaks, beeches, chestnuts and cork-trees, and the mountain sceneries. It has locomotive works, machine shops, tanneries, etc., is in a petroleum tregion, and contains a State fish-hatchery. There are fine forests containing pines, oaks, beeches, chestnuts and cork-trees, and the mountain scenery is splendid. In the plains and numerous valleys the soil is generally fersion, and cork-trees, and the mountain scenery is splendid. In the plains and numerous valleys the soil is generally fersion of some marshy districts on the east coast, the climate is pines, oaks, beeches, chestnuts and cork-trees, and the mountain scenery is splendid. In the plains and numerous valleys the soil is generally fersion, and cork-trees, and the mountain scenery is splendid. In the plains and numerous valleys the soil is generally fersion. There are fine forests containing pines, oaks, beeches, chestnuts and cork-trees, and the mountain scenery is splendid. In the plains and numerous valleys the soil is generally fersion. There are fine forests containing pines, oaks, beeches, chestnuts and cork-trees, and the mountain scenery is splendid. In the plains and numerous valleys the soil is generally fersion. There are fine forests containing pines, oaks, beeches, chestnuts and cork-trees, and the mountain scenery is splendid. In the plains and numerous valleys the soil is generally fersion. corsac), a species of yellowish are good fisheries. In minerals Corsica is fox or dog found in Central Asia, Siberia not rich. The chief exports are wine. fox or dog found in Central Asia, Siberia not rich. The chief exports are wine, and India. It is gregarious, prowls by brandy, olive-oil, chestnuts, fruit and fish, day, burrows, and lives on birds and reggs.

Corsairs (kor'sārs), the Anglicized was first colonized by the Phonicians, form of the term used in the south of Europe to denote those pirates The Romans afterwards gave it that of Corsairs the Romans it passed to Corsica. From the Romans it passed to the Goths, and from them to the Sara-cens, and in the fifteenth century to the Genoese. France had the rights of the Genoese ceded to her, after Paoli had virtually made Corsica independent, and entered on forcible possession of it in 1768. An insurrection in 1794, headed by

to preserve a good ngure, not to make a facturing interests. Fob. 14,370.

one, and any forcible compression of the shape, especially on young persons, will only end in destroying natural grace of secrated by exorcism, to be swallowed by movement and in serious injury to the health.

Corsica (kor'si-ka; French, Corse), would fall into convulsions, or turn deadly the converse of the swallower of the swallower could fall the convulsions, or turn deadly and the convulsions, or turn deadly the converse of the

unfortunate selection of a partner he was Mexico, where he caused his vessels to be involved in a complication of lawsuits, burned, in order that his soldiers might and finally ruined. In 1794, however, he have no other resource than their own received a pension of £200 a year from valor. Having induced the Totonacs and the British government. He died in 1800. Tlaxcalans to become his allies, he Cortelyou (kor'tel-yû), G E O R G E marched towards Mexico, where he was BRUCE, cabinet official, amicably received; but, having seized was born at New York in 1862; was graduated at the State Normal School, became treated the people with great cruelty, a law reporter in 1883 and a school prina law reporter in 1883 and a school principal in 1885. He entered public service in 1889, became successively private secretary to various officials, and was made stenographer to President Cleveland in 1895, assistant secretary to President McKinley in 1898, and secretary in 1900. He was continued in this position by President Roosevelt, and was chosen by him in 1903 as the first secretary of the new department of Commerce and Labor. In 1906 he was appointed Postmaster-General and in 1907 Secretary of the Treasury, thus holding three secretary-Treasury, thus holding three secretary-ships in the Roosevelt cabinets. In 1909

Gas Company, of New York.

Cortes (kor'tes), the old assembly of the estates in Spain and Portugal. In early times the king was very dependent upon them, especially in the in which 100,000 Mexicans are said to have perished, the city was taken, and soon after the whole country was subtraction. under rerdinand and isabelia the crown succeeded in rendering itself more independent of the estates, and in 1538 Charles abolished the assembly of the estates in Castile altogether. Gradually the popular liberties were encroached upon, and the cortes at length were convened only for the purpose of homage or pendent of the estates, and in 1538 sent out to Mexico, where he remained for Charles abolished the assembly of the estates in Castile altogether. Gradually the popular liberties were encroached upon, and the cortes at length were converted only for the purpose of homage or received and neglected. After taking part ceremony, or when a question regarding in an expedition to Algiers in 1541 he the succession arose. In 1808 Napoleon revived the cortes for his own ends. Solitude. He left a character eminent for The present cortes of Spain are composed of a senate and congress equal in authority, and having the power along with the king to make laws. (See Spain.) The Portuguese cortes is coeval with the monarchy, and has had a history similar to that of the Spanish.

with the monarchy, and has had a history normal school and vario a factories, invery similar to that of the Spanish.

Cortez, or Cortes (kor'tas, kor'tez) paper, silks and wagon factories, etc. paper, silks and wagon factories, etc. conqueror of Mexico, was born in 1485

Cortona (kor-tô'na), a city of Italy, at Medellin, in Estremadura; died near Seville in 1547. He went to the West It is a place of great antiquity, is partly Indies in 1504, where Velasquez, Gov-surrounded by cyclopean walls, and has the cortex of Cortona (cortex). Indies in 1504, where Velasquez, Gov-surrounded by cyclopean walls, and has ernor of Cuba, under whom he had greatly in its museum a great variety of distinguished himself, gave him the command of a fleet, which was sent on a voyage of discovery. Cortez quitted Santiago de Cuba in 1518, with eleven vessels, about 700 Spaniards, eighteen horses and ten small field-pieces. He painter and architect, was born at Corlanded on the shore of the Gulf of tona in 1596; died in 1669. Pope Ur-



have perished, the city was taken, and soon after the whole country was subjugated. In 1528 Cortes returned to Spain; but two years after he was again sent out to Mexico, where he remained for

ban VIII employed him to decorate a a flush deck, with no quarter-deck and chapel in the church of St. Bibiena, and only one tier of guns; but the term is also to execute the frescoes of the grand salon of the Barberini Palace. Many churches of Rome were decorated by him: class are now called cruisers.

Corvey, or KORVEI (kor'vi), a formand at Florence he adorned the Pitti Palace for the Grand-duke Ferdinand II.

in the province of the same name in Galicia, on the northwest coast, on a peninsula at the entrance of the Bay of Betanzos. It consists of an upper and a lower town, the former built on the E. side of a small peninsula, and the latter on the isthmus connecting the peninsula with the mainland. The harbor, which is well protected, is deep, spacious and safe, and many improvements have lately and orator; was elected to Congress in been made. Cattle form the chief export. There is a government tobacco factory employing 3000 women and girls. There is a lighthouse, 92 feet high, called the Tower of Hercules, and supposed to be of Roman construction. Corunna was the port of departure of the Spanish Armada (1588), and the scene of the repulse of the French and the death of Sir John Moore (1809). Pop. 43,971. See map at Ferrol.—The province is enabled to be of a district to perform certain services, as the repair of roads, etc., for the sovereign or the feudal law, an of a district to perform certain services, as the repair of roads, etc., for the sovereign or the feudal lord. In France this system was not finally abolished until 1792.

Corvette (korvet'), a vessel of war, celebrated the sound of drum and cymbal.

Palace for the Grand-duke Ferdinand II. abbey near Höxter in the Prussian prov-His easel pictures, although of less value ince of Westphalia, founded in 816, an estimation. As an architect he did early center of German civilization. Wittender important work in church restorations when the statement of the convent; some important work in church restoration.

Coruna (ko-rō'nyà). See Corunna.

Corundum (ko-run'dum), the earth alumina, as found native in a crystalline state. In hardness it is next to the diamond. The amethyst, next to the diamond. The amethyst, as it is now called, has a rich and extenruby, sapphire and topaz are considered as varieties of this mineral, which is the Benedictines is no longer in exist-found in India and China, and is most usually in the form of a six-sided prism

found in India and China, and is most ence. usually in the form of a six-sided prism or six-sided pyramid. It is nearly pure anhydrous alumina (AlsO₃), and its specific gravity is nearly four times that shape, more or less compressed, and of water. Its color is various—green, the gape straight. The nostrils are blue or red, inclining to gray, due to traces of iron, copper, etc. Emery is a variety of corundum.

Corunna (kō-run'na; Spanish, Corunna (kō-run'na; Spanish, Corunna (kō-run'na; Spanish, Corunna (kō-run'na; Spanish, Corunna, Corunna), a seaport of Spain, in the province of the same name in Galicia, on the northwest coast, on a peningula at the entrance of the Bay of Be-

Corvmb

which the flowers, each on its own pedicel of different lengths, are so arranged along a common axis as to form a flat broad mass of flowers with a convex or level top, as in the haw-thorn and candytuft.

level top, as in the hawthorn and candytuft.

Corypha (kor'i-fa), a gen us of palms, including the fan-palms, easing the fan-palm, gebang palm and taliput.

Coryphæna (kor-i-fa'na), Coryphæna (kor climates, are very rapid in thei motions, bounded by walls, which meet and form and very voracious. They are of brilliant the vaulted roof which we call the sky. colors, and are objects of admiration to complete the colors, and are objects of admiration to complete the colors of th

tapirs, having the ridges of its molar of positivism. teeth developed into points; found in Cosmogony (koz-mog'ō-ni; Greek, the Eocene formations of England and Cosmogony (koz-mog'ō-ni; Greek, kosmos, world, and gonë,

See Kosel.

(kor'imb), in botany, that cutlery; the environs are beautiful, and form of inflorescence in produce abundance of grain, fruit, oil, owers, each on wine and silk.

Coshering (kosh'er-ing), or Cosh-ERY, an old feudal custom in Ireland by which the lord of the soil had the right to lodge and feast himself at a tenant's house.

Coshocton (ko-shok'ton),

Coryphæus (kor-i-fē'us), the leader fy), external preparations for rendering of the chorus in the the skin soft, pure and white, or for Greek drama. His functions were often beautifying and improving the complexas wide as those of our stage-manager, ion. To these may be added preparations conductor and ballet-master. The name for preserving or beautifying the teeth, coryphée is now applied to a ballet-and those which are applied to the hair. dancer.

Coryphodon (kor-i-fō-don), a genus Cosmism (kos'mizm), that system of philosophy, based on the forming a link between the elephants and Herbert Spencer and his school; a phase

France.

Cos. now called Stanchio or Stanko, peneration), a theory of the origin or formation of the universe. Such theories an island in the Ægæan Sea, on the coast of Asia Minor; area, 95 square—1. The first represents the world as miles; pop. 10,000. It was the birthplace of Hippocrates, and had anciently 2. The matter of the world is eternal, a celebrated temple of Æsculapius. In but not its form. 3. The matter and Cos was manufactured a fine, semitrans-form of the universe are ascribed to the persont bind of eith much valued by the direct searcy of a suiritual cause: the cos was manufactured a nne. semitransparent kind of silk, much valued by the direct agency of a spiritual cause; the
ancients. Cos is also the name of the world had a beginning, and shall have an
principal town, a decayed seaport. The end. Aristotic appears to have embraced
island yields grain, wine, silk, cotton,
titrons, etc.

Cosel. See Kosel.

Common or the universe are ascribed to the
direct agency of a spiritual cause; the
ancients, but startconsiders the matter of the universe
eternal, but not its form, was the prevailing one among the ancients, who, start-Coseley (köz'li), an urban sanitary ing from the principle that nothing district of West Stafford could be made out of nothing, could not shire, 11 miles N. of Birmingham. It has admit the creation of matter, yet did not snire, 11 miles N. of Birmingham. It has admit the creation of matter, yet did not extensive iron and other manufactures, believe that the world had been always in its present state. The prior state of the Cosenza (ko-sen'tså), an episcopal city world, subject to a constant succession of Southern Italy, capital of of uncertain movements which chance province of Cosenza or Calabria Citeriore, afterwards made regular, they called 150 miles S. E. Naples; pop. 21,240. It chaos. The Phænicians, Babylonians, and has manufactures of silk, pottery and also Egyptians seem to have adhered to

this theory. this theory. One form of this theory is to furnish the largest the atomic theory as taught by Leucipthe shortest notice. pus, Epicurus and Lucretius. According part of the constitution it, atoms or indivisible particles existed peared under Russian from eternity, moving at hazard, and prowhen, in 1917, Russian description of the constitution of rom eternity, moving at nazard, and producing, by their constant meeting, a vamany and agreed to the recognition of the
riety of substances. After having given separate republic of the Ukraine, there
rise to an immense variety of combinawas a vigorous movement for the re-estabtions they produced the present organilishing of the Don Cossack republic. The
zation of bodies. The third theory of Cossacks were a very important element
cosmogony may be said to be that generin the national army of Czarist Russia,
ally stated in the first chapter of Genesis, forming a first-rate irregular cavalry and
where the act of creation is unequivocally representations are required as course and where the act of creation is unequivocally enunciated. This narrative has points in common with several ancient cosmogonies. notably those of the Assyrians and Babylonians. In modern cosmological speculations various causes have been as Teutons is no reflection on the courage signed to account for the phenomena of and skill of the Cossacks. Every Cossack

as the title of his celebrated work, which Agriculture, live describes the nature of the heavens as coal mining are well as the physical phenomena of the of the Cossacks.

Nevers, on the Loire. Pop. 8437.

Cossacks (kos'aks: Casacks), tribes who inhabit the southern and eastern parts of Russia, paying no taxes, but performing instead the duty of soldiers. Nearly all of them belong to the Græco-Russian Church, to which they are particularly of an old Spanish family in 1810; died in 1884. In 1828 he went to England, and two principal classes, both on account of ithe Cossacks of Little Russia and those of the Don. Both classes, and especially those of the Don. Both classes, and especially those of the Don. Both classes, and especially classes, of the Danube, of the Black Sea, of the Danube, of the Black Sea, of the Caucasus, of the Ural, of Orenberg, of Astrakhan. Writers are not agreed as to the origin of this people and of their from the Golden Gate, California, to a moix Caucasian and Tartar race. In personal appearance the Cossacks bear a most extinct, 30 survivors existing in 1888. Close resemblance to the Russians but Casta Discount to the Castan of the Russians but Casta Discount tribes, but now is alpersonal appearance the Cossacks bear a most extinct, 30 survivors existing in 1888. personal appearance the Cossacks bear a features which are decidedly more handsome and expressive. Originally their sovernment formed a kind of democracy. at the head of which was a chief or hetman of their own choice; while under him was a long series of officers, with jurisdictions of greater or less extent, partly civil and partly military, all so

One form of this theory is to furnish the largest military array on The democratical part of the constitution gradually disappeared under Russian domination, and when, in 1917, Russia capitulated to Gerrendering excellent services as scouts and skirmishers. The European war, however, was fought more with shells than with horses, and the fact that great Russia laid down her arms before the victorious nature.

Cosmos (koz'mos), order or harmony, 50. The Cossacks number about 3,200,000.

and hence the universe as an The capital of the Don Cossack territory and heautiful system. In this is Novo Tcherkask, which was founded in the commercial center. 1805. Rostov is the commercial center. Agriculture, live stock, herring-fishing and coal mining are the principal industries

Cosne (kon), a town of France, dep.

Nièvre, 31 miles N. N. W. of Nevers, on the Loire. Pop. 8437.

Cossa obs (kos'aks: Cossa

most extinct, 30 survivors existing in 1888. close resemblance to the Russians, but Costa Rica (kos'ta ri'ka), a republiare of a more slender make, and have can state in the southern part of Central America; bounded N. by Nicaragua, E. and N. by the Caribbean Sea; E. by Panama; and S. and W. by the Pacific. The area is 23,000 sq. miles, divided into five provinces and two coneting of their own choice; while under divided into live provinces and two co-him was a long series of officers, with marcas. The country is intersected diag-jurisdictions of greater or less extent, onally by the primary range or cordillera partly civil and partly military, all so of the isthmus, which throws off numerous arranged as to be able on any emergency spurs on either side. The chief range contains several lofty eminences (the highest ican printers Gutenberg is credited with 11,40 feet) and volcanoes, both active and extinct or dormant. Costa Rica is Schöffer. Schöffer. Schöffer. The contain some rich gold-mines; at present, however, they are not worked to any great extent. Silver and copper are also found. The country is extremely fertile. Coffee, rice, maize, etc., are raised on the tableland in the interior; and cacao, vanilla, sugar, tobacco, bananas, etc., are cultivated in the low coast-regions. Coffee forms the most important product. The forests are valuable, and remarkable for their hardwood timber. The capital is San José, and the two established ports are Punta Arenas, on the Pacific side and Porto expenses incurred by both parties, which leave a lindependent state since 1821. The suit. In criminal cases the party bevan here a lindependent state since 1821. miles of telegraph lines. The finances ports amounts to about \$15,000,000. Pop. 331,340, mostly of Spanish descent.

Costello (kos-tel'ō), Dudley, novelist and journalist, born in Ireland in 1803; died at London in 1865. A constant contributor to many journals and magazines, and author of several popular works of fiction, etc.—His sister, LOUISA STRATE COSTATIO born in 1915. popular works of fiction, etc.—IIIS BISICI, LOUISA STUART COSTELLO, born in 1815: died in 1870: published two romances, entitled The Queen Mother (1841) and Clara Fane (1848), a poem called The Lay of the Stork (1856), and various historical and descriptive works.

Câte-d'Or (kôt-dôr), that is, hill or hillside of gold, from the excellence of its vintages, a chain of hills in the east of France, height from 1400 foot.

Coster (kos'ter). LAURENS (called Janszoon, that is. son of John). whose name is connected with the origin of printing, was born in Haarlem in 1370 or 1371; died about 1440. He was sacristan (Koster) of the parochial church at Haarlem, and from this office he derived his surname. According to a statement first found in Junius' Batavia traverse it from N. E. to S. W. Area. (1588), he was the original inventor of movable types, and on this ground the Dutch have erected statues in his honor. But in 18/0 a Dutchman, Dr. Van der Linde, professed to have demolished the claims of Haarlem to the invention of printing, and to have established that the north of France, forming part of ciaims of Haariem to the invention of printing, and to have established that Holland. like other countries, was indebted for it to the Mayence school. This conclusion has been rejected by Mr. J. H. 2659 sq. miles. The coast extends about Hessels, who, on carefully investigating the matter, thinks it highly probable that Coster was the inventor. Among American Coster was the inventor. Among American Coster was the inventor.

been an independent state since 1821, the suit. In criminal cases the party from 1824 to 1839 forming a part of accused may have his expenses if the the Central American Confederation, but subsequently became separate. subsequently became separate. Another In matrimonial suits, the wife, whether Confederation was formed in 1872, but petitioner or respondent, is generally did not long continue. In 1912 there entitled to her costs from the husband, were over 400 miles of railway and 1200 Costume (kos'tam), the style of attire Costume (kos'tam), the style of attire characteristic of an individare in some disorder, and education is at ual, community, class, or people; the a low ebb. The sum of exports and immodes of clothing and personal adornment which prevail in any period or country.—
Costume balls, also called fancy dress balls, are entertainments at which the guests adopt a style of dress different from the one usually worn. It may be one which was worn at another period, or one worn in another country, or a modern dress worn by some particular class of society. A favorite plan is to

of printing, was born in Haarlem in 1370 of the old province of Burgundy, having or 1371; died about 1440. He was Dijon as its capital. It is watered sacristan (Koster) of the parochial by the Seine, the Saone, and their church at Haarlem, and from this office affluents, and derives its name from the

rearing of cattle and horses. In manufacturing industries the principal branch is the spinning of flax and hemp and the weaving of linen and sailcloth. Among the minerals are iron, lead and granite. Pop. 611,506.

Coteswold (or Cotteswold) Hills. See Cotswold Hills.

Cöthen. See Coethen.

Cothur'nus. See Buskin.

Cotidal Lines (kō-tī'dal), a system of lines on a globe or chart marking the places where high water occurs at the same instant.

water occurs at the same instant.

Cotillion (kō-til'yun), a brisk dance
of French origin performed
by eight persons together, resembling the
quadrille, which superseded it. The name
is now given to a dance which often
winds up a ball, and which is danced
with any number of dancers and with a
great variety of figures, the pairs of
dancers following in this the leading pair,
and partners being successively changed.

Cotingas (ko-tin'gas), a family
of tropical American birds,
some of which have splendid plumage,
or are otherwise remarkable. See Bellbird, Umbrella-bird.

bird, Umbrella-bird.

Coto (kö'tö), the reddish-brown, aromatic and slightly bitter bark of Palicourea densifiora, order Rubiaces, a tree of South Americs imported into Europe and used as a remedy in diarrhea

and profuse sweating.

Cotoneaster (kot-on-e-as'ter), a genus of small trees or trailing shrubs, nat. order Rosaceæ. C. vulgāris is a British species, having rosecolored petals and the margins of the
calyx downy. The other species are natives of the south of Europe and the
mountains of India. They are all adapted for shrubberies.

Cotopaxi (kô-tô-paks'i), the most remarkable volcanic mountain of the Andes, in Ecuador, about 60 miles N. E. of Chimborazo; lat. 0° 43' S.; lon. 78° 40' W.; altitude 19.500 feet. It is the most beautiful of the colossal summits of the Andes, being a perfectly symmetrical truncated cone, presenting a uniform unfurrowed field of snow of resplendent brightness. Several terrific eruptions of it occurred in the course of the eighteenth and the beginning of the nineteenth century.

Cotrone (ko-tro'na), a seaport of Southern Italy, province of Catanzaro, on the site of the ancient Croton. It has a cathedral, is defended by a citadel and otherwise fortified. Pop. 7917.

Cotswold Hills (kots'wold), a range of hills in England, County Gloucester, which they traverse N. to s. for upwards of 50 miles; extreme elevation near Cheltenham, 1154 feet. The Cotswold sheep are a breed of sheep remarkable for the length of their wool, formerly peculiar to the counties of Gloucester, Hereford, and Worcester.

Cotta (kot'ta), JOHANN FRIEDRICH, BARON VON, an eminent bookseller of Germany, born in 1764; died in 1832. He began business at Tübingen, but in 1811 removed to Stuttgart. He was the publisher for many great writers in Germany, including Goethe, Schiller, Wieland, Richter, Uhland, Fichte, Hegel,

the Humboldts, and others.

Cottabus (kot'a-bus), an ancient
Greek game, which consisted in throwing wine from cups without spilling, into little basins of metal, suspended in a particular manner or floating in water.

Cottage (kot'aj), a small country residence or detached suburban house, adapted to a moderate scale of living, yet with all due attention of neat-ness, comfort and refinement.

Cottbus. See Kottbus.

Cottier Tenure (kot'i-er ten'ûr), a according to which laborers rent small portions of land directly from the owner, or from a farmer, often giving personal service as part of the rent, and holding by annual tenancy.

Cottin (kot-an), Sophie Ristaud, better known by the name of Madame Cottin, a French novelist, born in 1773; died in 1807. In 1790 she married M. Cottin, a banker of Bordeaux, who died in 1793, and thenceforth she followed literature. Her best-known work is Elizabeth, or the Ewiles of Siberia; other novels are Claire d'Albe, Malvina, Amélie and Mathilde.

Cottle (kot1), Joseph, a bookseller and publisher of Bristol, England, and the author of some now almost completely forgotten poems, was born in 1774; died in 1853. He was a generous friend to Coleridge and Southey in their early days, and wrote an interesting volume of recollections of those authors.

Cotton (kot'n), the name given to the soft cellular hairs which encircle the seeds of plants of the genus Gossypium, nat. order Malvacese. The genus is indigenous to both the Old and the New World, and the plants are now cultivated all over the world within the limits of 30° north and south of the equator. All the species are perennial

shrubs, though in cultivation they are sometimes treated as if they were annuals. They have alternate stalked and lobed leaves, large yellow flowers, and a three or five celled capsule, which, when ripe, bursts open through the middle of the cell, liberating the numerous black seeds covered with the beautiful filamentous cotton. The North American cotton is produced by Gossypium barbadense, and two well-marked varieties are cultivated. the long-staple cotton, which has a fine, soft, silky fiber nearly 2 inches long, and the short-stapled cotton, which has a fiber little over 1 inch long adhering closely to the seed. The long-staple variety, known the seed. The long-staple variety, known as Sea Island cotton, holds the first place in the market. It is grown in some of the southern United States, especially on islands bordering the coast. The cotton grown in South America is obtained from G. Peruviānum, called also kidney cotton. The indigenous Indian species is G. herbacēum, which yields a short-stapled cotton. It is grown throughout the Mediterranean region as well as in Asia. The mode of cultivating cotton is usually as follows:—The seeds are sown in the spring in drills of about a yard in width, spring in drills of about a yard in width, the plant appearing above ground in about eight days afterwards. The rows about eight days afterwards. The rows of young plants are then carefully weeded and hoed, a process which requires to be repeated at two or three subsequent periods. No hoeing takes place after the flowering has commenced, from which a period of seventy days generally elapses till the ripening of the seed. To prevent the luster of the cotten wool from being tarnished, the pods must not remain ungathered longer than eight days after coming to maturity. The cotton-wool is collected by picking with the fingers the flakes from the pods, and then spreading out to dry, an operation which requires to be thoroughly performed. A machine out to dry, an operation which requires to be thoroughly performed. A machine has recently been invented which is asserted to pick cotton satisfactorily. The cotton then comes to be separated from the seeds, a process formerly ef-fected by manual labor, but which has long been done by the cotton-gin. After long been done by the cotton-gin. After being cleansed from the seeds, the cotton-wool is formed into bales, and is ready for delivery to the manufacturer.

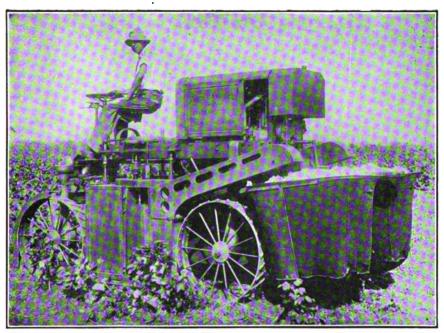
Cotton has been cultivated in India and the adjacent islands from time imme-

est luxury, The introduction of the cot-ton-shrub into Europe dates from the ninth century, and was first effected by the Spanish Moors, who planted it in the plains of Valencia. Cotton manufactories were shortly afterwards established at Cordova, Granada and Seville; and by the fourteenth century the cotton stuffs manufactured in the kingdom of Granada had come to be regarded as superior in quality to those of Syria. About the fourteenth century cotton thread began to be imported into England by the Venetians and Genoese. In China the cot-



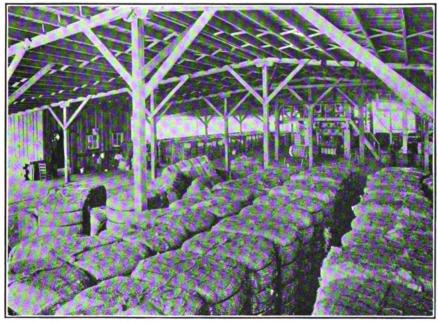
Herbaceous Cotton Plant (Gossypic herbaceum).

ton-shrub was known at a very early period, but it does not appear to have been turned to any account as an article of manufacture till the sixth century of the Christian era, nor was it extensively used for that purpose till nearly the mid-dle of the fourteenth century. In the New World the manufacture of cotton cloth appears to have been well understood by the Mexicans and Peruvians long before the advent of Europeans. It was planted by the English colonists of Virginia in by the English colonists of Virginia in 1621, but only as an experiment, and the amount produced was long very small, the crop amounting only to about 2,000.000 lbs. in 1791. In the following year the cotton-gin was invented, and the rapidity with which the fiber could be removed from the seed led to a rapid and great increase, the United States becoming in the following century the great producer of cotton. The cotton-plant is chiefly cultivated for the fiber growing morial. It was known in Egypt in the producer of cotton. The cotton-plant is sixth century before the Christian era, chiefly cultivated for the fiber growing but was then probably imported from Inupon the seed, but the seed itself has dia. It was not till a comparatively late proved commercially valuable. Formerly period that the nations of the West bea waste product, it now forms an essencame acquainted with this useful com-tial part of the crop's value, yielding modity, and even then it appears only to large quantities of cottonseed-oil and oil-have been used as an article of the great-cake. The fiber from the inner bark also



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COTTON PICKER



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COTTON PLATFORM AND COMPRESSOR

Experts have for many years been seeking a machine for picking cotton. The one llustrated above is an ingenious device which propels itself, picks the cotton, and stores it in the bags at the rear. In the lower view the machine seen in the background presses the cotton into bales, which are bound with steel tage.

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日本日本國帝國門在日本 中国



Cotton Cotton-gin

growth, and while maturing abundant simple machine has long been used as a sunshine with little moisture. The substitute for hand labor. It is called Southern States of this country supply the 'churka' and is known in Italy as these conditions better than elsewhere, the 'manganello', and consists of two and they have no competitor in the quantoder volving in contact with each other, the produced. The amount grown enorcotton being drawn between them and the mously exceeds that of any other part of seed excluded. Various efforts have been the world. The vield ranges from one made to improve this methics which is produced. The amount grown enormously exceeds that of any other part of the world. The yield ranges from one fourth of a bale of 500 lbs. to two bales per acre. If the lint alone is removed from the land, cotton is the least exhausting of the various crops of the United States. The quantity of cotton grown in the United States for the year preceding the census of 1900, as given therein, was 9,345,391 bales of a of Connecticut, then living in Savannah, total gross weight of 4,672,695,500 lbs. Georgia, as a tutor in the house of Mrs. In 1911 the crop reached the great total of 14,332,756 bales, the largest ever grown. Greene, the widow of General Greene of Revolutionary fame. His mechanical Cotton, Charles, an English writer, ingenuity was so evident that Mrs. Greene suggested to him the desirability He lived the life of a country gentleman, being a great angler and skilled in ing machine for the benefit of the planters horticulture. His works are numerous, of the State. Whitney soon devised a including Scarronides, or Virgil Travestic, Instructions how to Angle for a Trout that Mrs. Completed Angler; Poems on Various Occapions; translations of Montaigne's Essays, Corneille's Horace, etc. He wrote well both in poetry and prose.

shows possibilities of importance, being was a slow and difficult process, it being little inferior to jute, and much resembling done by hand, a good day's work for a it. Although cotton is a tropical plant, man being a few pounds of lint. The its cultivation is conducted most success- result was that American cotton could fully in the temperate zone. The condinot compete with that of India and the
tions most favorable to its growth and West Indies, and very little was raised
development are six months exemption until after the invention of the cuttonfrom frost, moderate rainfall during gin. In India and China a crude and
growth, and while maturing abundant simple machine has long been used as a sions; translations of Montaigne's Essays, Corneille's Horace, etc. He wrote well both in poetry and prose.

Cotton, Sir Robert Bruce, an English antiquary and collector of literary relics; born in 1570; died in 1631. He assisted Camden in his labors on the Britannia; and was made a baronet in 1611. He wrote numerous antiquarian pamphlets, but he is chiefly remembered for the magnificent library of ancient charters, records and other MSS, which he collected, and which passed to his heir intact, and was acquired by the nation in 1708. After being partially destroyed by fire in 1731, it was placed in the British Museum in 1757.

Cotton-grin 2 machine employed in

destroyed by fire in 1731, it was piaced in the British Museum in 1757.

Cotton-gin, a machine employed in the production of cotton-fiber, it being adapted to remove the lint from the seed to which it clings. When this has been done there remains of the product as gathered about one-third in In 1800 the crop was 18,000,000 pounds; facture, and two-thirds of seed, of value for the oil it contains. Originally the late years from 10,000,000 to 16,000,000 work of separating the lint from the seed to midustry of the South was remark-ton industry of the South was produced, the United States produced only 500,000 pounds of cotton and lithe cotton raised could have been grown on a field of a few hundred acres.

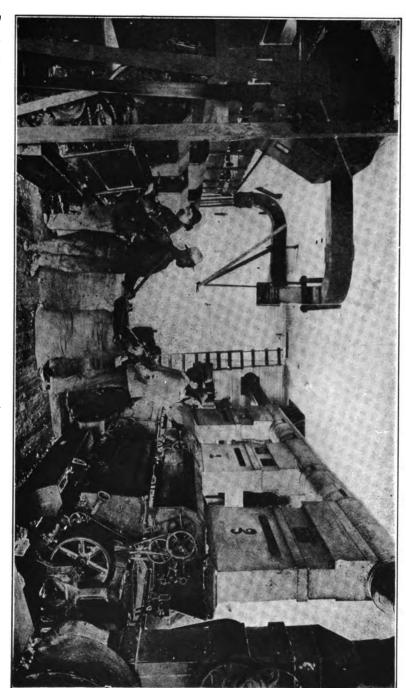
1830 a million bales. It has varied in 1830 a million bales. It has varied in 1840 a million bales. This great development would have

been impossible without Whitney's invention, which, however, was pirated, he re-ceiving little benefit from it. The action of the machine, it must be said, is very hurtful to the fiber, it being in this way a wasteful and costly apparatus. This injury was especially great with the long-stapled cotton, the fibers of which were found to be more or less cut, or 'nepped by the tearing action of the saws. prevent this another American invention, prevent this another American invention, the Macarthy gin, has come into use for cleaning the long-stapled Sea Island, Egyptian and Brazilian cotton. In this the fiber is drawn by a leather roller between a metal plate called the 'doctor', fixed tangentially to the roller, and a blade called the 'beater', which moves up and down in a plane immediately behind and down in a plane immediately behind and parallel to the fixed plate. As the cotton is drawn through by the roller, the seeds are forced out by the action of the movable plate, which acts vertically in some machines and horizontally in others. Attempts have been made to improve both the saw and the roller machines, in the one case to prevent injury to the staple, in the other to add to the rapidity of the cleaning process. One of these is the 'needle' saw-gin, an inven-tion intended to prevent the fiber from tion intended to prevent the fiber from being cut. It consists of steel wire set in block tin, with the bottom of the teeth rounded or made smooth. On the other hand the Macarthy gin has been developed into a double action machine, with two movable blades or beaters. Also the 'knife roller' gin, the 'lockjaw' gin, and others have appeared as rivals to the saw-gin. The machine which will clean the largest quantity in the shortest space of time is naturally preferred, unless the injury to the staple is such as to reduce its market value. The production of the most efficient cotton-cleaning machinery is, therefore, of importance alike to the is, therefore, of importance alike to the planter and the manufacturer. Until recent years the ginning was done on the plantations. Nearly the whole of it is now done in public ginneries with steam power and much more rapid production. The saw-gin is five times as fast as the roller-gin in its operation and is used throughout the Southern States except in the region of Sea Island cotton.

Cotton-grass, the popular name of the genus Eriophorum, order Cyperaecæ or sedges. Several species occur in the United States and in Great Britain, in moory or boggy places, and the white, cottony substance they produce is used for stuffing pillows,

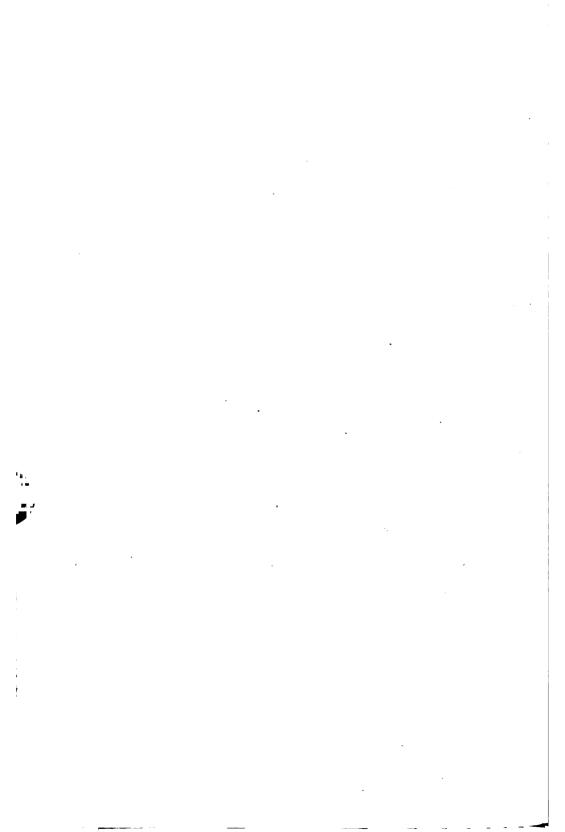
picked by hand, the negroes of the South being employed. This method has long been unsatisfactory, for various reasons, and various efforts to produce a mechanical cotton-picker have been made. One tested in 1910 proved very satisfactory. It was operated by a gasoline motor, and picked the cotton by mechanical fingers, performing its work thoroughly and without injury to the plant on the unconstitution. out injury to the plant or the unopened bolls, and at a cost much below that of hand-picking. It is the invention of Angus Campbell, a Scotchman.

Cottonseed Oil, a valuable oil exseeds of the cotton-plant, used as an adulterant or as a substitute for various other oils. The oil-cake of cottonseed is a valuable cattle-feeding substance. Cotton-spinning, a term employed to describe in the aggregate all the operations involved in aggregate an the operations involved in transforming raw cotton into yarn. The word 'spinning' has also a more limited signification, being used to denote the con-cluding process of the series. The following affords a general notion of the nature and order of the successive operations carried on in the manufacture of cotton yarn.—(1) Mixing, the blending of different varieties of raw cotton, in order to secure economical production, uniform quality and color, and an even thread in any desired degree. (2) The soillowing, any desired degree. (2) Ine solutions, soratohing, an operation which cleans the cotton and prepares it in the form of a continuous lap or rolled sheet for the next process. (3) Carding, an operation in which the material is treated in its individual fibers, which are taken from the lap, further cleansed, and laid in a position approximately parallel laid in a position approximately parallel to each other, forming a thin film, which is afterwards condensed into a sliver—a round, untwisted strand of cotton. (4) Drawing, the drawing out of several slivers to the dimensions of one, so as to render the new sliver more uniform in thickness, and to place the fibers more perfectly in parallel order. (5) Slubbing, the further drawing or attenuation of the sliver, and slightly twisting it in order sliver, and slightly twisting it in order to preserve its cohesion and rounded form. (6) Intermediate or second slubbing, a repetition of the former operation and further attenuation, not necessary in the production of coarse yarns. (7) Roving, a continuation of the preceding, its principal object being still further to attenuate the sliver, and give it a slight additional twist. (8) Spinning, which completes the extension and twisting of pillows, completes the extension and twisting of the yarn. This is accomplished either Cotton with the throstle or the mule. By means Cotton-picker, MECHANICAL. Cotton with the throstle or the mule. By means been of the former machine the yarn receives



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COTTON GINNING
In this process, the seed is removed from the raw cotton.

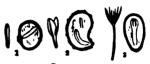


a hard twist, which renders it tough and don, and are accordingly termed monostrong. By means of the latter yarns of cotyledonous; others have two, and are less strength are produced, such as warps dicotyledonous. These differences are acof light tabrics and wefts of all kinds. companied by remarkable differences in (See Thread and Weaving.) Up to the structure of the stems, leaves and middle of the last century the only method blossoms, which form the basis for the a hard twist, which renders it tough and strong. By means of the latter yarns of less strength are produced, such as warps of light tabrics and wefts of all kinds. (See Thread and Weaving.) Up to the middle of the last century the only method of spinning known was that by the handwheel, or the still more primitive distaff and spindle. In 1767 a poor weaver of the name of Hargreaves, residing at Stanhill, in Lancashire, England, invented a machine for spinning cotton, which he named a spinning-jenny. It consisted at first of eight spindles, turned by a horizontal wheel, but was afterwards greatly extended and improved so as to have the vertical substituted for the horizontal wheel, and give motion to from fifty to eighty spindles. In 1769 Arkwright, originally a barber's apprentice, took out a patent for spinning by rollers. From the circumstances of the mill erected by Arkwright at Cromford, in Derbyshire, being driven by water-power, his machine received the name of the water-frame, and the thread spun on it that of water-twist. The next important invention in cotton-spining was that of the mule. introduced by spun on it that of water-twist. The in others the store is not so large, and the next important invention in cotton-spin-seed-leaves appear above ground and pering was that of the mule, introduced by form the functions of true leaves; while Mr. Samuel Crompton, of Bol'on, in there is a large class of seeds where the 1775, and so called from its combining embryo is very small, and the food is the principle of the spinning-jenny of stored up around it, as in wheat and the Hargreaves with the roller-spinning of buttercup.

Arkwright. Numerous improvements in cotton-spinning have been introduced up to the present day, but they are all modifications of the original inventions. Among these is the throstle, an extension and simplification of the prizinal spin-Among these is the throstle, an extension and simplification of the viginal spin- perennial grass, which is propagated both ning-frame, introduced about the year by seed and by its creeping root-stock, 1810. The first machines set up in the United States were at East Bridgewater, troublesome weeds of agriculture. When United States were at East Bridgewater, troublesome weeds of agriculture. When Mass., in 1786, by two Scotchmen. In it first appears above ground its blade is 1812 Francis C. Lowell introduced the readily eaten by sheep. The roots are Cartwright power-loom at Lowell, Mass., readily eaten by pigs, and when cleaned which is now the largest cotton-manuand boiled or steamed become a farinace-facturing center in America. There are ous and nutritious food for cows and also extensive mills in active operation horses. It is the grass eaten by dogs as in Alabama, Georgia and other Southern

into a pale, reddish-green moth.

Cottus, a genus of fishes. See Bull-



1, Monocotyledon (seed of Arum maculatum).
2, Dicotyledon (seed of Papaser Rheas).
3, Polyectyledon (seed of Pinus sylvestris).

n to division of flowering plants into two great classes. The embryo plant of the ap-Coniferse has many (three to twelve) cotyledons, and is called polycotyledonous. The cotyledons contain a supply of food for the use of the germinating plant. In a by some plants the store is very large, and it the in germination the seed-leaves remain hread under the ground, as in the pea and oak; The in others the store is not so large, and the seed-leaves appear above ground and personne.

States. Cotton-worm, a caterpillar which of the cotton-plants, in such multitudes at cause serious mischief. It changes its place to leave the pupil of the eye clear.

clear.

Cottus, a genus of fishes. See BullCoturnix: See Quail.

Cotyledons (kot-i-le'dons), the seedleaves or seed-lobes of the embryo plant, forming, together with the radicle and plumule, the embryo, which exists in every seed capable of germination. Some plants have only one cotyle
cottus, a genus of fishes. See BullCougy (kö-sē), Renaud, Chatelain Dee, an old French poet, born about 1160; killed at Acre in 1191. His songs are distinguished by great warmth of passion. He is the hero of a celebrated for passion. He is the hero of a celebrated (kows), Elliott, naturalist, was born at Portsmouth, New Hampshire, in 1842; died in 1899. He became to shire, in 1842; died in 1899. He became

tion. Some plants have only one cotyle- a doctor and served as such in the army

Council Cougar

positions in the northern boundary sur- also produces it. A catarnal cough is vey and the geological survey of the generally considered unimportant, particterritories. He was professor of anatomy in the National Medical College at Wash-ington 1817-87, and in 1883 of biology in Virginia Agricultural College. His works include Key to North American Birds and various other works on birds, Fur-Bearing Animals, Biogen, Expedition

ruped of the cat kind, inhabiting most parts of America—Felis concilor. Its color is a uniform fawn or reddish brown, without spots or markings of any kind. It may attain a length of 9 feet, inclusive of the tail. In habits it is stealthy and cowardly, and seldom or never attacks man. It is by some called the puma or red tiger, and is one of the most destructive of all the animals of America, particularly in the warmer

ceded by closure of the glottis or narrowed portion of the box of the windpipe. The force for the action is obtained by a deep least, then follows the closure of the glottis, succeeded by the expiratory effort scented vernal grass, melilot, etc. It has forcing open the glottis. The action is a pleasant, aromatic odor, and a burning performed by the expiratory muscles, that is, the abdominal muscles, by whose contraction the diaphragm is forced up, and the muscles of the chest, by which the ribs are pulled down. The cavity of the chest being thus diminished, air is driven out of the lungs. The object of the cough is usually to expel any foreign offending material may be there present as the result of inflammation, catarrh, etc. It may also have gained entrance by in-spiration. Thus, the irritating material may be merely some food or drink which has slipped into the larynx, or it may be dust, etc., in the air inhaled, and the cough is the means of expelling the intruder. But cough may also be produced when there is no irritating material present. The larynx or windpipe may be in an inflamed and irritable condition, in which state even the entrance of cold air which state even the entrance of cold air termined. Among the principal Latin will excite coughing. Moreover, cough councils are that of Clermont (1096), in may be produced by irritation of nerves, the reign of Urban II, in which the first distant from the lungs and air passages, crusade was resolved upon; the Council by what is called reflex action. Thus, of Constance, the most numerous of all irritation of the stomach, irritation conthe councils, held in 1414, which pronected with the ear, irritation of certain nounced the condemnation of John Huss nerves by pressure of growths, etc., may (1415), and Jerome of Prague (1416); produce cough, when the respiratory the Council of Basel, in 1431, which inorgans are not directly affected at all, tended a reformation, if not in the doc-Irritation at the back of the throat, as of trines, yet in the constitution and dis-

from 1862 to 1881, also holding official the tickling by a long uvula, and so on, also produces it. A catarrial cough is generally considered unimportant, partic-ularly if there be no fever connected with it. But every cough lasting longer than two or three days is suspicious and ought to be medically treated.

Coulisse (kö-lis'), one of the side scenes of the stage in a theater, or the space included between the side scenes; properly one of the grooved of Lewis and Clark, etc.

Gougar (kö'gir), a voracious quadruped of the cat kind, inhabitmoves.

Cougar (kö'gir), a voracious quadruped of the cat kind, inhabitmoves.

Coulomb (kö-lön), CHARLES AUGUS-TIN DE, French physicist, born in 1736 at Angouleme; died in 1806. His fame rests chiefly on his discoveries in electricity and magnetism, and on his invention of the torsion balance.

Coulomb, or AMPERE-SECOND, is the working unit of electrical energy. When a current having the of the most destructed in the minimals of America, particularly in the warmer strength of 1 ampere passes through a climates, where it carries off fowls, dogs, cats and other domestic animals.

Cough (kof), a sudden and forcible after C. A. Coulomb (see preceding article).

the cough is usually to expel any foreign representatives of independent churches, material in the lungs or air tubes. The convened for deliberation and the enactconvened for deliberation and the enact-ment of canons or ecclesiastical laws. The four general or ecumenical councils recognized by all churches are: (1) the Council of Nice, in 325, by which the dogma respecting the Son of God was settled; (2) that of Constantinople, 381, by which the doctrine concerning the Holy Ghost was decided; (3) that of Ephesus, 431; and (4) that of Chalcedon, 451, in which last two the doctrine of the union of the divine and human nature in Christ was more precisely de-termined. Among the principal Latin councils are that of Clermont (1096), in the reign of Urban II, in which the first

cipline of the church; and the Council of Trent, which began its session in 1545, of Trent, which began its session in 1545, and labored chiefly to confirm the doctrines of the Catholic Church against the Protestants. On December 8, 1869, an ecumenical council, summoned by a bull of Pope Pius IX, assembled at Rome. This council adopted a Decree or Constitutio de Fide, and a Constitutio de Ecclesia, the most important article of which latter declares the infallibility of the pope when speaking ex cathedra.

Council, Aulic. See Aulic.

Council. PRIVY. See Privy-council. .

Council and Session, the supreme which, if it stood a judges of the highest court of Scotland. a ground of action. See Session, Court of.

elevators, the distributing center of a rich corn-growing country. The city is also a manufacturing city and large farm-implement center. Pop. 35,000.

Council of Ten, a secret tribunal of the old Venetian republic, formed in 1310 and continued till the fall of the republic in 1797. It virtually ruled the state, secretly decreeing the death of those whom it had reason to the state of the secret of the state. son to fear.

Council of War, an assembly of officers of high rank called to consult with the commander-in-chief of an army, or admiral of a fleet, on matters of supreme importance. lent to harmony, or the writing of a Counsel (koun'sel), or Counselor, a carefully planned accompanying part; or

tine (fourth century), meaning originally thus producing new melodies and new the companion of a prince or high dignitary. After the fall of the Roman power Counterscarp (k o u n'ter-skarp), in the title was retained; and under Charle-

civil employment. About the end of the fifteenth century, in Germany, and under the last princes of the Merovingian race in France, the title appears to have be-come hereditary in certain families. The German title Graf corresponds to the title Count in other countries of Europe. In modern times the custom of styling all the sons of a count also counts makes this designation very common, and the rank little more than nominal. In point of rank, the English earls are considered as corresponding to the continental counts, an earl's wife being styled a countess.

Count, in law, a declaration or indict-ment, an independent part of which, if it stood alone, would constitute

Counterfoil (koun'ter-foil), a kind Council Bluffs, tant manufacturing and distributing center, seat of Pottawat-tamic County, Iowa, on the left bank of the Missouri, opposite Omaha City, with ment, and on which is written a memo-splendid railway facilities and large grain randum of the main particulars contained in the principal document.

Counter-irritant, in medicine a substance employed to produce an artificial or second-ary disease, in order to relieve another or primary one. The term is more specifically applied to such irritating substances as, when applied to the skin, redden or blister it, or produce pustules, purulent issues, etc. The commonest counter-irritants are such as mustard, turpentine, cantharides or Spanish flies, croton-oil and the cautery.

feet, on matters of supreme importance. lent to harmony, or the writing of a carefully planned accompanying part; or person retained by a client that branch of the art which, a musical to plead his cause in a court of judicational to plead his cause in a court of judicational to plead his cause in a court of judicational to plead his cause in a court of judicational to the different parts or the writing of a carefully planned accompanying part; or that branch of the art which, a musical thought being given, teaches the development of legal counselors engaged to thought being given, teaches the development of legal counselors engaged to thought being given, teaches the development of legal counselors engaged to thought being given, teaches the development of the by transposition, repetition or imitation number of legal counselors engaged to throughout the different parts. Countercounsel to the crown, on the nomination is a composition in two or more parts, and the lord-chancellor, and taking precent the notes of each part being equal in the value to those of the corresponding part have the privilege of wearing a silk gown or parts and concords. In forid counterpoint, two or more notes are written against each note of the subject, or canto fermo, and discords are admissible. Companion) appears to have Double counterpoint is an inversion of the reign of the Roman emperor Constanting (fourth century), meaning originally the producing new melodies and new that the base may become thus producing new melodies and new that the base and new that the parts are the subject, and the subject the base, etc., the counterpoint is an inversion of the subject in the subject the base, etc., the counterpoint is an inversion of the subject in the subject the base, etc., the counterpoint is an inversion of the subject in the subject the base, etc., the counterpoint is an inversion of the subject the base, etc., the counterpoint is an inversion of the subject the base, etc., the counterpoint is an inversion of the subject the base an

magne it denoted equally a military or terior talus or slope of the ditch, or the

ered way. It often signifies the whole of Parliament. In the United States covered way, with its parapet and glacis. there is a regular court in each county, Countersign (-sin), a private signal, presided over by a judge elected by the word, or phrase given people or appointed by the governor and to soldiers on guard, with orders to let senate. no man pass unless he first give that Conn. sign; a military watchword.

Coun'tertenor (-ten-or), in music one of the middle parts between the tenor and the treble; high tenor. It is the highest male adult in music See Count Palatine.

Count Palatine (pal'a-tin), in England, formerly the superior of a county, who exercised regal stroke.

prerogatives within his county, in virtue of which he had his own courts of law, appointed judges and law officers, and could pardon murders, treasons and could pardon murders, treasons and felonies. All writs and judicial processes

Couple (kup'1), in dynamics, two equal and parallel forces acting in proceeded in his name, while the king's different directions and applied to the same hold. The distance hatween their writs were of no avail within the palatinate. The Earl of Chester, the Bishop of Durham and the Duke of Lancaster were the Counts Palatine of

England, the corresponding counties being called counties palatine.

Country Dance (kun'tri dans), a rustic dance of rhythm, often embodying an idea of the English origin, in which many couples nature of an aphorism.

can take part. The performers are ar Coupling (kup'ling), in machinery, a

County (koun'ti), originally a disform is the flange or a count or earl. The country in the plate coupling, which United States has developed from the consists of two flanges English county of the seventeenth century; but the organization of country administration has been thoroughly deepered of the lengths of ministration has been thoroughly decen- ends of the lengths of ralized by the radical extension of shaft to be connected, popular election for all classes of of- and firmly secured to- ficials. The principal county authority gether by screws. The most useful kinds is the locally-elected county board, or- of couplings are those that are adjustable, ganized in various ways. Every county or can be readily put on and off.—The also has a sheriff and usually other term is also applied to an organ register, by which two or more rows of keywors.

talus that supports the earth of the cov- powers conferred on them by recent acts

County Palatine, a county under a count palatine.

Coup (kö; French, a blow), a term used in various connections to convey the idea of promptness and force. voice, having its easy compass from tenor — Coup de main, a prompt, vigorous and G to treble C, and music for it is written successful attack.—Coup d'état, a sudden on the alto or C clef on the middle line decisive blow in politics; a stroke of of the staff. The lowest voices of females policy; specifically, an exertion of preand boys have about the same register, rogative to alter the laws or the constituof the staff. The lowest voices of remarks and boys have about the same register, rogative to alter the laws or the consent or countertenor. The correct term is alto or concurrence of the people expressed through their representatives, especially appointed by when such exertion is supported by armed force.—Coup de soleil. See Sun-

same body. The distance between their lines of action is called the arm of the couple, and the product of one of the two equal forces by this arm is called the

Coupling (kup'ling), in machinery, a contrivance for connecting ranged face to face, the gentlemen on one side and the ladies on the other, and go one portion of a system of shafting with through certain prescribed figures.



elective officers, such as prosecuting at by which two or more rows of keys can torney, treasurer, clerk and coroners. In be connected by a mechanism, so that many states there are county registers of they can be played together. It is also deeds, auditors, assessors, school com- applied to methods and art of attaching missioners and surveyors. County admin- milroad cars together.

County Courts, are an ancient institution in England.
Their jurisdiction was formerly very bonds, and so called because it is cut of restricted, but they have had extensive or detached and given up when a pay-

ment is made. Also one of a series of tickets which binds the issuer to make ment is made. Also one of a series of court (kort). (1) All the surround-tickets which binds the issuer to make certain payments, perform some service, state; the body of persons who compose

whole government is occupied by wood-land. The peasantry are for the most lord of the manor or his steward. These part Letts; the more wealthy and intelli-courts have long fallen into disuse. land. The peasantry are for the most lord of the manor or his steward. These part Letts; the more wealthy and intelligent classes Teutons, the prevailing religion being Lutheran. The territory was subjected to Poland in 1561, conquered by Charles XII of Sweden in 1701, and was long fallen in 1725; died in Charles XII of Sweden in 1701, and was 1784. He published, in 1773 and 1774, merged in Russia in 1795. It was one of the new states formed by the Germans after the capitulation of Russia in 1917. Volumes had appeared, remained unternal affairs of Courland. This conternal affairs of Courland. This consisted of barons, large land owners, and other members, all of the Germanic race. Courser (kōr'ser), or Courled (Cursorius), a genus of grallatorial birds belonging to the plover tribe. They are found chiefly in Africa, but one species, the cream-colored courser, has been met with in Britain.

Coursing (kōr-sing), a kind of sport in which hares are hunted by greyhounds, which follow the game by sight instead of by scent. Meetings are held in various localities, at which dogs are entered for a variety of stakes, as horses are at a race meeting. When a nobleman has several titles it is usual to have is started it is allowed a certain give one of his inferior titles to his eldest.

advance on the dogs, which are then let son. Thus, the eldest son of the Duke loose from the 'slips' or cords held by of Bedford is Marquis of Tavistock, and the 'slipper' and fastened to the dogs' the Duke of Buccleuch's eldest son is collars. A judge keeps his eye on the Earl of Dalkeith. The younger sons of dogs, and notes what are called 'points,' noblemen have the courtesy title of Lord the victory being adjudged to the dog which makes the most 'points.'

certain payments, perform some service, or give value for certain amounts at different periods, in consideration of money received.

Courbevoie (körb-vwä), a town of Fance, department France, department ereign on certain state occasions appoints or social standing to the British soverall sarge barracks; pop. (1911), 38,138.

Courier (köri-er), a bearer of special despatches, whether public or private; also an attendant on a party traveling abroad, whose especial duty is to make all arrangements at hotels and on the journey.

Courland (kurland; German, Kurtaveling abroad, a government in Russia, bounded N. by Livonia and the Gulf of Riga, w. the Baltic, s. Kovno, and E. by Vitebsk; area 10,535 square miles; pop. 714,200. In the neighborhood of mild of the more solved in the capital, the surface is diversified by hills of very moderate height; but elsewhere, and particularly towards the solve plant. The peasantry are for the most of a manor, presided over by the holders of a manor or his steward. These or give value for certain amounts at the household of, or attend on, a sover-different periods, in consideration of eign. Presentation at Court is a formal

as horses are at a race meeting. When a nobleman has several titles it is usual to have is started it is allowed a certain give one of his inferior titles to his eldest noblemen have the courtesy title of Lord prefixed to their names, as Lord William Lennox. In Scotland, the eldest son of a

VI, through the influence of his consort Isabella of Bavaria, whose court was established in 1380. An attempted revival was made under Louis XIV by Cardinal Richelieu.

viscount or baron has the courtesy title Here, in 1302, the 'battle of spurs' beof Master, as the Master of Lovat, eldest tween the French and Flemings, took
son of Lord Lovat.

It is well built, and contains many

court Hand, the old Gothic or Saxon handsome streets. Pop. 34,564.

Court Hand, the old Gothic or Saxon handsome streets. Pop. 34,564.

Cousin (kö-zan), Victor, a French philosopher and writer, founderedings, and distinguished from the modern or Italian style.

Court Leet, in English history the criminal court, as the criminal court, as the at the Lycée Charlemagne, and entered court baron was the civil court, of a the Ecole Normale, then newly instituted, manor. The right to hold it was granted by royal franchise to the lord of the wards philosophy under Laromiguière, manor. In some parts of England courts leet are still maintained in form, though they have ceased to have jurisdiction.

Court-martial a court consisting successor, and he became deputy-professor Court-martial, a court consisting successor, and he became deputy-professor of military or naval of philosophy at the Sorbonne. He had officers, for the trial of military or naval also an appointment at the Lycée offenses.

Court of Arbitration, a court established at sions (conférences) which followed his the Board of the projections has became by the influence his The Hague, Netherlands, by the Peace prefections he became, by the influence his Convention of 1899. Its membership now eloquence exercised over his pupils, the includes distinguished legal authorities of founder of a school which, while assumable the civilized nations of the world, ing an eclectical development, was since its astable nations of the world. since its establishment several important originally based on the dogmatic teaching questions have been submitted to and de- of the Scottish school. In 1817 he visited questions have been submitted to and decided by it, possible hostilities being thus avoided. See Arbitration.

Court of Claims, in the United and Schelling, by whose opinions his own act of Congress in 1855, has jurisdiction to hear and determine all claims founded upon any act of Congress, or on any regulation of any executive department or upon any contract, express, or implied, with the government of the United States; and all claims referred to it by either house of Congress.

Court of Tawa in the chiralise of the Scottish school. In 1817 he visited Germany, and became acquainted with the writings of Kant, Fichte, Jacobi Achelling, by whose opinions his own were thenceforth modified. He lost his act of Congress in 1825, has jurisdiction as public teaching with the writings of Kant, Fichte, Jacobi Court of Congress in 1855, has jurisdiction and Schelling, by whose opinions his own were thenceforth modified. He lost his act of Congress in 1822, and did not resume teaching the specific production and Schelling, by whose opinions his own were thenceforth modified. He lost his act of Congress, or on any regulation of any executive department or upon any contract, express, or implied, with the government of the United States; and all claims referred to it by either the council of Public Instruction, to which he presented valuable reports and all claims referred to it by either to which he presented valuable reports to which he presented valuable reports to which he presented valuable reports on the state of public education in Germany and Holland. In the cabinet of ages, a court composed of knights, poets and ladies, who discussed and gave decisions on subtle questions of love and gallantry. The first of these courts was ton of 1848 brought his public career to probably established in Provence about a close. The head and founder of the the twelfth century. They reached their modern school of eclecticism in France, his barbor walls from many sources. His lantry. The urst of the probably established in Provence about a close. The twelfth century. They reached their modern school of eclecticism in probably established in Provence about a close. The probably is a close. The process of the principle via the process of the principle sabella of Bavaria, whose court was that every system, however erroneous, an attempted remaining some elements of truth, by which has anywhere commended assent, and that the probable some elements of truth, by which the probable some elements of truth by the probable some elements of truth by the probable some elements of truth by the probable some elements Court, Presentation at, a formal it is the business of philosophical crittion to the sovereign of Great Britain of persons socially entitled to that distinct the court of the court, and the court of the court, presents of the cou tion to the sovereign of Great Britain of tered elements of truth. The follow-persons socially entitled to that distinction. It takes place either at St. James' Philosophiques (1826): Nouveaux Frag-Palace or Buckingham Palace. The days ments Philosophiques (1828): Cours de of presentation are announced some time philosophie Morale (1840-41); Cours de la Philosophie (1828); Courtrai (kör-tra; Flemish, Kortryk), Histoire de la Philosophie (1828); Courtrai a fortified town, Belgium, kuitième Siècle (1829): De la Métaphy-26 miles south of Bruges, on the Lys. sique d'Aristote (1838); Philosophie

Scholastique (1840); Du Vrai, de Beau et required to attach their subscription to it.

born in 1756, and was bred to the profes-

Scholastique (1840); Du Vrai, de Beau et required to attach their subscription to it. du Bien (1854), etc.

Cousins (kuz'ns), Samuel, an English The subscription was renewed in 1836, engraver, born in 1801; died in 1887. He engraved plates after Law-rence, Landseer, Reynolds, Millais, Leslie, was in 1880, and to reject all innova-Eastlake, Ward, etc. He was elected a tions introduced since that time. The Royal Academician Engraver in 1855, Solemn League and Covenant was a and when this class was abolished he besolemn contract entered into between the General Assembly of the Church of Scot-Coutances (kō-tāns), a town of Barliament in 1643, having for its object a uniformity of doctrine, worship and sea, with which it communicates by a discipline throughout Scotland, England canal. It has a fine old cathedral crowning the hill on which the town stands. Pop. (1906) 6089.

Couthon (kō-tōn), Georges, a noted French revolutionist, was born in 1756, and was bred to the profes-

Covenanters (k u v'e n-a n-ters), in Scottish history, the sion of a lawyer. Some time after the revolution he was chosen a member of name given to the party which struggled the national assembly, and allying himfor religious liberty from 1637 on to the self with Robespierre aided and abetted revolution; but more especially applied to the latter in all his atrocities. On the the insurgents of after the passing of downfell of Robespierre's poster. the national assembly, and allying himself with Robespierre aided and abetted the latter in all his atrocities. On the downfall of Robespierre's party Couthon the act of 1662 denouncing the Solemn shared, along with him and St. Just, in the decree of arrest, and was guillotined, July 28, 1794.

Couvade (kö-väd'), a singular custom prevalent in ancient as well as modern times among some of the primitive races in all parts of the world. After the birth of a child the father takes to bed, and receives the food and compliments usually given elsewhere to the mother. The custom was observed, according to Diodorus, among the Corsicans; and Strabo notices it among the Spanish Basques, by whom, as well as by of death. The unwarrantable severity the Gascons, it is still to some extent practised. Travelers from Marco Polo downwards have met with a somewhath America, etc.

Covenant (kov'en-ant), in law, an agreement between two or parties in writing signed scaled feating their assailants (1679). The America, etc.

Covenant (kov'en-ant), in law, an agreement between two or Claverhouse, but were successful in demore parties in writing, signed, sealed and delivered, whereby they agree to do, or not to do, some specified act. In Moor, and this defeat, alarmed the theology, the promises of God as revealed government, which sent a large body of terms on the part of man, as obedience, repentance, faith, etc.

Covenant, in Scotch history, the name given to a bond or hand signed in 1557, and to the similar of the rebellious protest called the document or Confession of Faith drawn Monmouth to put down the insurgents, who had increased in number rapidly. The two armies met at Bothwell Bridge, where the Convenanters were totally desard signed in 1557, and to the similar of the rebellious protest called the document or Confession of Faith drawn Monmouth to put down the insurgents, who had increased in number rapidly. The two armies met at Bothwell Bridge, of the rebellious protest called the document or Confession of Faith drawn Monmouth to put down the insurgents, who had increased in number rapidly. The two armies met at Bothwell Bridge, of the rebellious protest called the document or Confession of Faith drawn Monmouth to put down the insurgents, who had increased in number rapidly. The two armies met at Bothwell Bridge, of the rebellious protest called the document or Confession of Faith drawn Monmouth to put down the insurgents, who had increased in number rapidly. The two armies met at Bothwell Bridge, of the rebellious protest called the document or Confession of Faith drawn Monmouth to put down the insurgents, who had increased in number rapidly. The two armies met at Bothwell Bridge, of the rebellious protest called the document or Confession of Faith drawn Monmouth to put down the insurgents, who had increased in number rapidly. The two armies met at Bothwell Bridge, and signed in 1557, and to the similar thought to put down the insurgents, who had increased in number rapidly. The two armies met at Bothwell B

Covent Garden (k u v' ent; that is, convent garden), a market place in London, which formerly consisted of the garden belonging to the abbot and monks of Westminster. In 1831 the present market buildings were erected by the Duke of Bedford, the pro-prietor of the ground.—Covent Garden THEATER sprang out of one in Lincoln's-

wick, 85 miles northwest of London. It suppurous pauls. 1 op. 10, 100.
was formerly surrounded with lofty walls Covington (kuv'ing-tun), a city of Kentucky, on the s. bank was formerly surrounded with lotty wans and had twelve gates, and was the see of a bishop early conjoined with Lichfield. of the Ohio River, opposite Cincinnati, a bishop early convened here by the of which it is virtually a suburb, because of bridges. processional show in honor of Lady Godiva. (See Godiva.) There are still eral fine churches. Coventry is the center of the ribbon trade, and silk-dyeing, watchmaking, and art metal work are watchmaking, and art metal work are staple lines of business. Pop. 106,377. Coventry, a town of Kent Co., Rhode Island, 18 miles 8. W. of Providence. It has manufactures of cotton and woolen goods, etc. Pop. 5848.

Cove of Cork. See Queenstown.

Bible into English, was born in York-shire in 1487; died in 1568. He was ducing an erect, hollow, much-branched, educated at Cambridge and was ordained striated stem, 3 or 4 feet high, with dispriest in 1514. He was led some years sected leaves. It is highly poisonous.

the government proceeded to more severe afterwards to embrace the reformed measures. An oath was now required of doctrines, and, having gone abroad, as-all who would free themselves of suspicion sisted Tindall in his translation of the of complicity with the Covenanters; and Bible. In 1535 his own translation of the dragoons who were sent out to hunt the Scriptures appeared, with a dedicadown the rebels were empowered to kill tion to Henry VIII. Coverdale was anyone who refused to take the oath. almoner to Queen Catharine Parr, and During this 'killing time,' as it was officiated at her funeral. In 1551, during called, the sufferings of the Covenanters the reign of Edward VI, he was appointed bishop of Exeter, but was ejected on the were extreme; but notwithstanding the Bishop of Exeter, but was ejected on the great numbers who were put to death, accession of Mary, and thrown into their fanatic spirit seemed only to grow prison. After two years' confinement he stronger. Even after the accession of was liberated, and proceeded first to Den-William accession. stronger. Even after the accession of was liberated, and proceeded first to Den-William some of the extreme Covenanters mark, and subsequently to Geneva, where refused to acknowledge him, owing to his he was employed in preparing the Geneva acceptance of episcopacy in England, and accession of the Scriptures. On the formed the earliest dissenting sect in accession of Elizabeth he returned to England, and held for a short time the rectory of St. Magnus, London Bridge.

Covent Garden (kuv'ent; that is, covered Way (kov'erd wā), a space of the ditch round the works of a fortification between the counterscarp and the cation between the counterscarp and the glacis, affording a safe communication round all the works.

Coverture (kov'er-tūr), a legal term applied to the position of a woman during marriage, because she is

THEATER sprang out of one in Lincoln's a woman during marriage, because she is Inn-Fields, through a patent granted to Sir W. Davenant in 1662. It is associated with the names of Kemble, Siddons, Macready, etc.

Coventry (ku v'en-tri), a city of S. E. slope of the Serra da Estrella.

Wick, 85 miles northwest of London. It sulphurous baths. Pop. 15,469.

Parliaments were convened here by the earlier monarchs of England, several of ing closely connected by means of bridges whom occasionally resided in the place, and ferries. It has a large general trade whom occasionally resided in the place. and ferries. It has a large general trade Pageants and processions were celebrated and manufacturing business, its indusin old times with great magnificence, and tries including many cigar and tobacco a remnant of these still exists in the factories, wagon works, glass works, etc. Pop. 53,270.

a few narrow and irregular streets, lined Cow (kou), the general term applied to the females of the genus Bos with houses in the style of the fifteenth and sixteenth centuries. There are sevruminating animals. Among the best breeds of dairy cows in the United States are the Dutch Belted, Holstein, Jersey, Guernsey, Shorthorn, Ayrshire, Devon and some breeds of Durham. The Jersey, Guernsey, and Shorthorn are valued as dairy cows, while the Holstein, though an enormous milk producer, from its large size is classed among the beef-producing breeds as the Durham. See Os.

Coverdale (kov'er-dāl), Miles, the Cowbane (kou-bān), or water-hem-lock, Cicuta virosa, a per-

Cowberry, the Vaccinium Vitis idea, Cowes (kous), a seaport town and procumbent shrub of high moorlands in England, on the north coast of the Isle Europe, Asia and North America. It of Wight, at the mouth of the river has evergreen box-like learners. has evergreen, box-like leaves, and pro-duces a red acid berry used for jellies and preserves. Named cowberry because in parts of Scotland the berries are used to thicken milk by being rubbed on the inside of milk-pails.

Cowboys, a term first used during the American Revolution, applied to a band of Tories who infested the neutral ground of Westchester Counthe neutral ground of Westchester Coun-ty, New York, stealing cattle from both parties and doing other mischief. It has been used of recent years to designate the skilled horsemen who have charge of the cattle on the great ranges of the West. Many of them enlisted in the Rough Rider regiments of the Spanish war and proved daring soldiers.

Cow-bunting, the Molothrus pecoris American bird about the size of the European sky-lark,



about the end of March. These corn and rice birds often frequent corn and rice fields in company with the red-winged troopials, but are more commonly found accompanying the cattle, feeding on seeds, worms, etc.

Cowdes. Same as Kauri (resin).

Cowell (kou'el), an English jurist, born in 1554; died in 1611.

Author of a law dictionary, 1607, and Institutiones Juris Anglicani.

The mouth of the Canton River, directly opposite to the island of Hong-Kong, to which crown colony it belongs.

Cowen (kou'en), Frederick Hymen, musical composer, born at Kingston, Jamaica, in 1852. Among his species of which, H. Sphondylium, found works are Rose Maiden. St. Ursula and Sleeping Beasty, cantatas; Pauline, opera; The Deluge, oratorio; and many popular songs,

Engiand, on the north coast of the Isle of Wight, at the mouth of the river Medina. It is well known as a yachting port. Pop. 9635.—EAST COWES, on the opposite side of the river, is connected with it by a steam ferry and floating bruge. Pop. 4660.

Cowgrass. See Cowpes.

Cowitch, or Cownage (kou'ich, kou'aj; Hind, kinoanch), the
hairs of the pods of leguminous plants, genus Mucina, natives of the East and West Indies. The pod is covered with a thick coating of short, stiff, brittle, brown hairs, the points of which are finely serrated. They easily penetrate the skin, and produce an intolerable itching. They are amployed medicinally (being taken in are employed medicinally (being taken in honey or syrup) as a mechanical vermifuge.

Cowley (kou'li), ABRAHAM, an English poet of great celebrity in about the size of the European sky-lark, and belonging to the family Sturnidæ, or starlings. It in 1607. He published his first volume, drops its eggs Poetic Blossoms, at the age of fifteen. into the nests of other birds to be hatched by them, 1636, but was ejected as a royalist in hatched by them, 1643, and removed to St. John's College, but has never been known to cause, and when the queen was obliged drop more than one egg into the same nest. It is nearly ten years, and it was principally through him that the correspondence was spending its winters regularly in On the restoration he returned with the spending its winters regularly in On the restoration he returned with the
lower parts of North and
South Carolina by which his income was about £300 per
and Georgia, and annum. Cowley's poems have failed to
appearing in maintain their ancient popularity, but he
Pennsyl van i a still holds a high position as a prose
about the end writer and as an essayist. He took a
of March. These considerable interest in science, and was
hirds often frequent one of the founders of the Royal Society. His chief works are: Love's Riddle, a pastoral comedy; Davideis, a scriptural epic; Naufragium Joculare; The Mistress, a collection of love verses; Pindarique Odes. Liber Plantarum, etc.

dens and shrubberies, reaching the height due to the suggestion of Lady Austen. of 10 or 12 feet. H. lanatum is a common

United States species.

Cowpea, Cowgrass, Trifolium medium, a variety of clover cultivated in England and some parts of the United States for the same purpose again attacked with madness, which was as the common red clover (*T. pratense*). aggravated by the death of Mrs. Unwin Cowper (kö'per or kou'per), WILLIAM, in 1796. The revisal of his *Homer*, and English poet, born at the composition of some short pieces, Berkhampstead in 1731; died at East Dereham, in Norfolk, in 1800. He was the son of a clergyman; lost his mother at the son of a clergyman; lost his mother at the age of six, and was, when ten years easy and elegant of letter-writers. of age, removed from a country school to that of Westminster, which he left at eighteen with a fair reputation for classical learning, and a horror of the school discipline, which he afterwards expressed in his Tirocinium. He was then apprenticed for three years to a solicitor, where he had for a fellow clerk Mr., afterwards Lord Thurlow. At the expiration of his apprenticeship he took chambers in the Middle Temple, and in 1754 was called to the bar. The interest of his family protecting for him the post of clerk to the Vaccination. cured for him the post of clerk to the House of Lords; but having to appear for examination at the bar of the house, his nervousness was such that on the very day appointed for the examination he resigned the office, and soon after became insane. From December, 1763, to June, 1765, he remained under the care Asia. The beauty of the cowrie-shells of Dr. Cotton at St. Albans. The skill has procured them a place among ornaments, and them a place among ornaments, and they have been in demand him to health, and he retired to Hunting-don. Here he made the acquaintance of the Rev. Mr. and Mrs. Unwin, whose the Rev. Mr. and Mrs. Unwin, whose currency occur principally in the Philippine Islands. They vary in value in seemed to have the most soothing and different localities. the Rev. Mr. and sind and seemed to have the most soothing and beneficial influence on him. On the death of Mr. Unwin, in 1767, he removed with interior of Africa 200 are worth 16c. Mrs. Unwin to Olney, the residence of The name is also given to other shells the Rev. John Newton, who also became an intimate friend and exercised a power of several varieties of Primary and conduct. an intimate friend and exercised a power-ful influence over his mind and conduct. Newton had resolved on publishing a volume of hymns, and secured the covolume of hymns, and secured the coperation of Cowper in composing them, and meadows. It has umbels of small, but before their publication in 1776 he had been again attacked by his constitutional malady, by which, for ten years from 1773, his mind, with occasional intervals of recovery, was continually clouded. In 1776, by Mrs. Unwin's advice he commenced a poem on the Progress of Error, which he followed by three other poems, Truth, Table Talk and Expostulation; these with several contents were published in a volume in 1782. Another female friend, Lady Austen, suggested the Task, which, together with Tirocinium, formed a second volume in 1785. The History of John Gilpin is also

The translation of Homer, begun in 1784, occupied him for the next six years, and was published in 1791. He removed during its progress, in 1786, from Olney to Weston. In the beginning of 1794 he was again attacked with madness, which was aggravated by the death of Mrs. Unwin in 1796. The revisal of his Homer, and occupied the latter years of his life. He is considered among the best of English descriptive poets, and is one of the most easy and elegant of letter-writers.

Vaccination.

Cowrie-pine (kou'ri). See Kauri.

currency occur principally in the Philippine Islands. They vary in value in different localities. In India 6000 to 7000 are equal to a rupee, while in the interior of Africa 200 are worth 16c.

ŭla veris, order Primulaceæ, a fragrant and pretty wildflower found in pastures and meadows. It has umbels of small,

100 feet. The leaves are leathery, about a small species, though considerably larg-1 foot long, and 3 or 4 inches broad. In er than the fox. It is found as far south British Guiana the name is given to as Costa Rica. the Hya-hya (Tabernæmonvana utilis), Counce (kwa

Cox, David, an English landscape painter, born in 1783, in Birmingham; died at Harborne near Birmingham; died and engraver.

Coypou, name of a South American
rodent mammal, the Myopotämus coupus,
se about American
rodent mammal, the Myopotämus coupus,
its tail in part bare and scaly, and it
sistence. After residing in London, Hereswims with great ease, its hind feet
ford, etc., he returned to Birmingham in
being webbed. It inhabits burrows by
1841. His works are chiefly of English the banks of streams. It is valued for
landscape, and in water-colors, a department which constituted his peculiar forte.
full grown, about 2 feet 6 inches.
His pictures are now very highly valued. Coverence (k w & sy o). Anyone. landscape, and in water-colors, a department which constituted his peculiar forte. His pictures are now very highly valued.

COX, KENYON, figure painter, born at of Yucatan.

KENYON, figure painter, born at of Yucatan.

Warren, Ohio, in 1856. He became noted as an illustrator, but gradually devoted himself to mural painting.

Examples of his work are found in the pecially known for his Sparrovograss Library of Congress, the Iowa State Papers, and wrote other works in prose came noted as an illustrator, but gradually devoted himself to mural painting. York in 1 Examples of his work are found in the pecially Library of Congress, the Iowa State Papers, at Capitol, the Minnesota State Capitol, etc. He is a frequent contributor to art maga-zines and has written several critical works. He was elected a member of the constituting the suborder Brachyura, or-

the Hya-hya (Tabernæmonvåna utilis), a large, much-branched tree belonging to the Apocynacæ; in the country of the died in 1707, at Paris. He adorned the Rio Negro to Collophöra, a tree of the same family; and in Para to a species of Mimūsops.

Cox, David, an English landscape of Versailles.—His son Antoine (1661-1721) was highly distinguished both as a painter and an appearance. painter and an engraver.

His pictures are now very highly valued. In later life he painted a great deal in oil. He published a work on Landscape Painting and Effect in Water-colors.

COX, SIE GEORGE W., an English XIV; a statue of Cardinal Mazarin; the tomb of Colbert; the group of Castor and curacies in Devonshire, and afterwards Pollus; the Sitting Venus; Nymph of became vicar of Bekesborne, Kent, and Scrayingham, York. He published works Flute; and Pegasus and Mercury.

On Greek history, the Mythology of the Aryan Nations, etc. Died in 1902.

COX, KENYON, figure painter. born at of Vucater

works. He was elected a member of the National Academy in 1903.

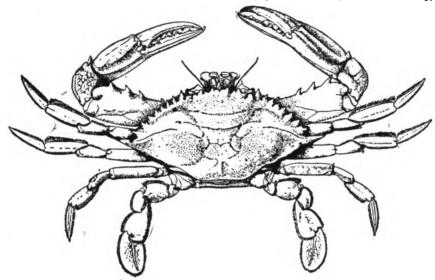
COX, PALMER, artist, was born at distinguished from the lobster and other Granby, Canada, in 1840. He macrurous or long-tailed decapods by the lived in San Francisco, 1863-75, afterwards in New York. He wrote the under the body. The head and breast are united, forming the cephalothorax, and illustrations, How Columbus Found America, Queer People with Paws and Claws, etc.

Coxie (kok'sē), or COXCIE, MICHEL J.

with hard projections for the purpose of the purpose Coxie (kok'sē), or Coxcie, Michel J. stomach has its internal surface studded van, a Flemish painter, born with hard projections for the purpose of about 1500; died in 1592. He traveled to grinding the food. The stomach is popuraturated by the works of Powers years, larly called the 'sand-bag'; a little begrinding the food. The stomach is popularly called the 'sand-bag'; a little be-Rome, where he remained several years, larly called the 'sand-bag'; a little peattracted by the works of Raphael. Here he executed several paintings in fresco and many other pieces. For Philip II of Spain he executed an admirable copy of Van Eyck's altar-piece at Ghent.

Coyote (koi-ōt, koi-ōtā), the American prairie-wolf (Canis ochrōpus of Lyciscus latrans). It is native to the plains west of the Mississippi, and is claws or pinchers. The eyes are compound, with hexagonal facets, and are in 1832. Having been educated for the
pedunculated, elongated and movable. medical profession, he settled as a surgeon
Like most individuals of the class, they and apothecary in his native village, but
easily lose their claws, which are as soon finding his practice insufficient to
readily renewed. They generally live on afford him a livelihood, he resolved to try
decaying animal matter, though others his fortune as littéreteur in London. He
live on vegetable substances, as the racerobtained the friendship and assistance of
trabs of the West Indies which suck the
Burka published his proon the Librage.

crabs of the West Indies, which suck the Burke, published his poem the Library,



Common Edible or Blue Crab (Cancer pagurus),

juice of the sugar-cane. Most inhabit the sea, others fresh water, and some the was appointed domestic chaplain to the land, only going to the sea to spawn. Of Duke of Rutland, and afterwards obtained the crabs, several species are highly esteemed as an article of food, and the fish-telemed as an article of food, and the fish-village, which was followed two years ery constitutes an important trade on many coasts. The common large edible ish Register appeared in 1807. The Bormany coasts. The common large edible ish Register appeared in 1807. The Bormany coasts. The common ough appeared in 1810, and was followed, our shores, and is much sought after. Is 1812, by Tales in Verse, and in 1819 by Tales if the Hall. The later years of Crab, a name given to various discharge of his professional duties at machines, especially to a kind of Trowbridge in Wiltshire, a living which portable windlass or machine for raising he had received in 1814. His poems are weights, etc. Crabs are much used in all characterized by homely truthfulness, weights, etc. Crabs are much used in all characterized by homely truthfulness,

weights, etc. Crabs are much used in all characterized by homely truthfulness, building operations for raising stones or other weights, and in loading and discharging vessels.

Crab-apple (Pyrus Malus), a small mented by a network of small cracks in all directions. The ware receives the of the apple; also any sour or uncultivated species or variety. See Apple.

Crabbe (krab), George. an English poet, born at Aldborough, Suf-

Cracovienne (kra-kō-vi-en'), a fa-vorite dance of the Pol-

Polish kings, now a fortified city of the Austrian crownland of Gallicia, is situated on the left bank of the Vistula, where

fa- nal judicature of the country as justice

Cracovienne (kra-ko-vi-en'), a favorite dance of the Polish peasantry. The music is written in
time.
Cracow (krā'kō), the old capital of
Poland and residence of the
Polish kings, now a fortified city of the
Austrian crownland of Gallicia, is situated on the left bank of the Vistula, where

Cracovienne (kra-kō-vi-en'), a fatal judicature of the country as justice
depute. He is now chieny remembered
by his Treatise on Feudal Law.

Craik (krak), Dinah Maria, an English novelist, born at Stokeupon-Trent in 1826, her father's name
George Lillie Craik (a nephew of the
ated on the left bank of the Vistula, where
subject of next article) in 1865. She Poliah kings, now a fortified city of the Austrian crownland of Gallicia, is situated on the left bank of the Vistula, where it becomes navigable. It was for a time a republic (1815-46). The cathedral, a fine old Gothic edifice, contains monuments of Kosciusko and the Polish kings. The university was founded in 1304, but gradually fell into a decay and was reorganized in 1817. It has a library of 300,000 volumes. Pop. (1910) 150,318. During the European war the Russian Gress wept almost to the gates of Cracov: a furious battle took place under its walls in November, 1914, which ended in the retirement of the Russians. Craddock, CHARLES EGEERT, pseudo-guil Hall, Boston, from the fact that, before the Revolution, the meetings of patriots were held here.

Crag (krag), in geology a local name often Rouselege snafer Difficulties (1830-81). The contributor to the Penny Cyclogradia in Norfolk and Suffolk, usually of gravel and sand, of the older Pliocene period, subdivided into three members—viz., the Upper or Mammaliferous Crag, the Red Crag and the Lower or Coraline Crag.

Crag and Tail, in geology a name futth of the contributor to the Penny Cyclogradia in Hall, Boston, from the fact that, before the Revolution, the meetings of patriots were held here.

Crag and Tail, canno Ann Tair, and sand, of the older Pliocene period, subdivided into three members—viz., the Upper or Mammaliferous Crag, the Red Crag and the Lower or Coraline Crag.

Crag and Tail, fin geology a name futth of the contributor to the Penny Cyclogradia in Hall, Boston, from the fact that, subdivided into three members—viz., the Upper or Mammaliferous Crag, the Red Crag and the Lower or Coraline Crag.

Crag and Tail, Spank, a Scottian resource of English lituation, in which a bold and precipitous from the fact that, and the subdivided into three members—viz., the Upper or Mammaliferous Crag, the Red Crag and the Lower or Coraline Crag.

Crag (krag), John, a Scottian resource of Crago (krag), John, a Scottian resource of Crago (krag), John, a Scottian

accompanied him in his pilgrimage to feathers, which can be spread out at Jerusalem. On the commencement of pleasure. It inhabits North and West the Reformation movement he became the intimate friend of Luther and Melanchthon, whose portraits, as taken by him, are among the most interesting memorials of the age. His works, chiefly portraits and historical subjects, are numerous and much prized.—His son Lucas (died 1586) also gained great distinction as a painter.

tinction as a painter.

Cranberry (kran'ber-I), the fruit of Oxycoccus palustris, nat. order Vacciniaces (whortleberries), a native of Europe, North Asia and North America. It is also called Moss-North America. It is also called Mossberry or Moorberry, as it grows only on peatbogs or swampy land, usually among masses of sphagnum. The berry, when ripe, is globose and dark red, and a little more than ¼ inch in diameter. These berries form a sauce of exquisite flavor, and are used for tarts. The American cranberry, a native of Canada and the United States is the O. macrocarpus. It has larger berries than the European species, and is extensively cultivated in some localities. Vaccinium Vitis idaa, the cowberry, is often called the cranberry in Scotland.

Cranbrook (kran'bruk), a small town of England, County Kent, 40 miles S. E. of London, where the first woolen manufactory in England was established by the Flemings in the reign of Edward III. Pop. 13,689.

Crane (krān), the common name of birds of the genus Grus, order Grallæ, or Grallatores. They are generally of considerable size, and remarkable for their long necks and stilt-like legs, which eminently fit them for living in marshes and situations subject to inundations, where they usually seek their

which eminently fit them for living in marshes and situations subject to inundations, where they usually seek their food. This is partly of vegetable matter, but they also devour insects, worms, the spawn of various aquatic animals. The spawn of various aquatic animals. They build their nests among bushes or Turkis and Spanish-American wars. Tupon tussocks in marshes, and lay but two eggs. Cranes annually migrate to distant regions, and perform voyages astonishing for their great length. The william Morris in the movement to bring common crane (Grus cineréa) has the general plumage ash-gray, the throat stiff and curled feathers, the head with bristly feathers; legs black; length about a revival of the decorative arts and general plumage ash-gray, the throat orafts in England. Among his works are black, the rump ornamented with long, The Bridge of Life, The Chariots of the stiff and curled feathers, the head with bristly feathers; legs black; length about Spenser's Faeric Queene and Shepherd's 4 feet. It inhabits Europe, Asia and Calendar and several of Shakespeare's the north of Africa. The crowned crane plays. Some of his designs for tapestry (v. pavonina, or Balearica pavonina) are notable, among them The Goose Girl. has the general plumage bluish ash-gray, The Albert gold medal of the Society of the tail and primary quills black, the Arts was awarded to him in 1904. wing-coverts pure white; the head is Grane-fly, (dipterous) insects (Tip-

accompanied him in his pilgrimage to feathers, which can be spread out at





2, Du Crank. tl Double Crank. 3, Bell 1, Single Crank.

can only be used on the end of an axis. The double crank (2) is employed when it is necessary that the axis should be

ila), remarkable for the length of their legs. Tipula oleracea is the well-known Daddy-long-legs, whose larva is very destructive to the roots of grain crops, etc.

Crane's-bill, the typical genus of the order Geraniacea. Many species are American plants; the order Geraniacea. Many species are American plants; examiner of candidates for degrees in some are mere weeds, others extremely showy. See Geraniam.

Cranganore (kran'ga-nor), a town in Hindustan, presidency of Madras, state of Cochin, on the Malabar coast. Pop. 9475. It is the traditional field of St. Thomas' labors traditional field of St. Thomas' labors a treatise on the subject of the divorce. In 1530 he was sent abroad with others to collect the opinions of the divince and canonists of France, Italy and Germany, on the validity of the king's mary, on the validity of the king's mary that the presented his treating the control of the control Craniology (krā-ni-ol'o-gi), the ence which investigates the structure and capacity of the skull in various animals. It is sometimes also pointed Archbishop of Canterbury. Soon used as synonymous with phrenology.

Cranium (crā'ni-um). See Skull.

Crank, an iron axis with the end as a handle for communicating circular motion; as, the crank of a grindstone; or for changing circular into longitudinal mation, as in some sawmills, or the crank of t riage. At Rome he presented his treatise to the pope, but his mission was fruitless. In January, 1533, he was appointed Archbishop of Canterbury. Soon read in churches, and monastic instituread in churches, and monastic institutions were vigorously suppressed. In 1536 he pandered to Henry's passions by promoting the divorce of Anne Boleyn. This and other services secured him in the king's favor, who appointed him by will one of the council of regency to Edward VI. By his instrumentality the liturgy was drawn up and established by act of Parliament, and articles of religion were compiled, the validity of which was enforced by royal authority, and for which infallibility was claimed. The exclusion of the Princess Mary from can only be used on the end of an axis. The double crank (2) is employed when it is necessary that the axis should be extended on both sides of the point at which the reciprocating motion is applied. An exemplification of this arrangement is afforded by the machinery of steamboats. The bellcrank (3), so called from its being much used in bell-hanging, is for a totally different purpose to the others, being used merely to change the direction of motion, as from a horizontal to a vertical line.

Cranmer (kran'mér). Thomas, Archhishop of Canterbury, and famous for the part he played in the English reformation during the reign of The exclusion of the Princess Mary from

St. Mary's Church, Oxford, to read his recantation in public, instead of confessing the justness of his sentence, and submitting to it in silence or imploring Many species of Crassula, Sempervivum, mercy, he calmly acknowledged that the Sedum, etc., are cultivated in greenfear of death had made him belie his houses for the beauty of their flowers. conscience: and declared that nothing The genus Sedum is the most largely repcould afford him consolation but the prospect of extenuating his guilt by encountering, as a Protestant penitent, with firmness and resignation, the fiery with firmness and resignation, the fiery surnamed Dives (the rich), on account torments which awaited him. He was of his vast riches, was born about B.C. immediately hurried to the stake, where he behaved with the resolution of a martyr.

Crannogs (kran'ogs), the name given in Ireland and Scotland to give in Ireland and Scotland to the Platforms supported by piles in lakes, which were in use as dwelling-places and places of refuge among the old Celts. See Lake Dwellings.

Grantara (kran'ta-ra; Gael, crean-styria and the Parthine Platforms by Crantara of the Parthine Platforms and containing Syria for his province he made war on the Parthine Platforms and supported by first triumvirate. Five years later he again became consul, and obtaining Syria for his province he made war on the Parthine Platforms and supported by first triumvirate.

Contains several manufacturing villages, reform schools, State prison, etc. Pop. 21,107.

Crashaw (kra'sha), RICHARD, and don in 1613; died in 1649; educated at the Charterhouse and at Cambridge. In 1637 he became a fellow of Peterhouse, fragments of his works remain.

Since ce into others. (kra-ti'nus), an Athenian comic poet to whom the interest of the complex conditions and the complex conditions and having been admitted to orders was crashing the conditions and having been admitted to orders was crashing the conditions and the conditions are conditions and the conditions and the conditions are conditions as a condition of the condition of the conditions are conditions as a condition of the condi 1637 he became a fellow of Peterhouse, and having been admitted to orders was noted as an eloquent and powerful preacher. In 1644 he was ejected from his fellowship by the Parliamentarians, and proceeded to Paris, where he became a convert to the Roman Catholic faith, and was appointed to a canonry at Loretto. Epigrammata Sacra appeared in 1634; Steps to the Temple. Sacred Poems, with other Delights of the Muses, was published in London in 1646; and a posthumous volume appeared at Paris in 1652, under the title Carmen Deo Nostro. Crashaw displays considerable poetic genius in the treatment of religious subjects, and though his works are now almost forgotten, they are said to have furnished hints to both Milton and Pope.

piaces or reruge among the old Celts. the first triumvirate. Five years later he See Lake Dwellings.

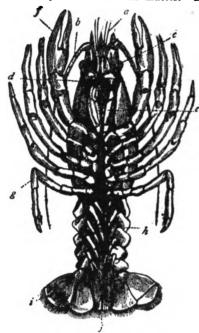
Crantara (kran'ta-ra; Gael, crean-tarigh), the fiery cross, an ancient Gaelic rallying symbol, the neglect of which implied infamy.

Cranston (krans'ton), a town (town-ship) of Providence Co., the mouth, in scorn of his notorious love Rhode Island, w. of Narragansett Bay.

Cratægus (kra-të'gus), the haw-thorn genus of plants. Crater (kra'ter), the orifice or mouth of a volcano. Craters may be Crape (krap), a light, transparent of a volcano. Craters may be silk, gummed and twisted on the mill, several subsidiary ones, which may shift woven without crossing, and much used in mourning and dressmaking.

Milton and Pope.

Crassulacese (k r a s-u-l a's e-e), the lobster in appearance and habits. It houseleek f a mily, a inhabits the fresh waters of Europe and nat. order of polypetalous exogens. It the north of Asia. and is common in consists of succulent plants, with herbasome of the streams of England. It ceous or shrubby stems, and annual or lurks under stones or in holes in the



The Common Crawfish (Assaus fluviatilis), viewed from below. a, Antennules; b, Large antennes; c, Eyes; d, Opening of auditory sac; e, Last pair of foot-jaws; f, One of the great cheles; g, Fifth thoracic limb; h, Swimmerets; i, The last pair of swimmerets; j, The opening of the anus below the telson.

the United States crawfish of the genus Astacus and Cambarus occur. Some of

Sippi.

Crawford (kra'furd), Francis Marbon, son of the following, was born in Italy in 1854, and studied butter by the aid of improved machinery, managed by skilled operators. In philosophy and languages at Cambridge, some cases the milk is received and the cream separated by centrifugal machines. He died in 1851, was competed with the cream separated by centrifugal machines. In others the milk is skimmed at home both prolific and highly successful. His and only the cream sent. The creamfirst novel, Mr. Isaacs, attracted much attention and was followed by numerous than that usually made on farms and is others. He also did some good historical work. He died in 1909.

Crawford, Thomas, sculptor, was Cream of Tartar, or Potassium C-4H-6O₄), exists in grapes, tamarinds, in 1814; died in 1857. His most famous and other foods. It is prepared from works comprise Orpheus and Corberus, the crystalline crust (crude tartar or

banks. Its food consists of small mol- Adam and Eve, Hebe and Ganymede, luscs or fishes, the larve of insects, and Mercury and Psyche and Dancing Jenny. almost any sort of animal matter. In He performed important works for the He performed important works for the National government and the State of Virginia.

Virginia.

Crawford, WILLIAM HARRIS, statesman, was born in Amherst Co., Virginia, in 1772. His life was spent in Georgia, where he was admitted to the bar in 1798. He became politically prominent and was elected United States Senator from Georgia in 1807 by the Democratic party. He was appointed Minister to France in 1813, became Secretary of War in 1815 and Secretary of the Treasury in 1816, retaining this position until 1825. In 1824 he was nominated for the presidency

taining this position until 1825. In 1824
he was nominated for the presidency
by a Congressional caucus, his competitors being Jackson, Adams and Clay.
He was defeated, receiving 41 electoral
votes. He was afterwards a circuit judge
in Georgia, and died in 1834.

Crawfordsville (krafurdz-vil), a
city of Indiana, 44
miles N. w. of Indianapolis. It is the
seat of Wabash College, founded 1832.
The chief industries are brick, iron, match,
galvanizing and furniture. Pop. 9371.

Crayon (krā'un), a colored pencil
obtained from certain mineral substances in their natural state,
but more commonly manufactured from
a fine paste of chalk or pipe-clay colored with various pigments, and consolia fine paste of chalk or pipe-clay colored with various pigments, and consolidated by means of gum, wax, etc. A kind of crayon painting (or pastel painting) is practised to some extent, the coloring matter in a soft state being rubbed on with the finger.

Cream (krēm), the yellowish, thick oily layer which forms at the surface when new milk is allowed to remain at rest. When it is agitated or churned butter is formed.

churned butter is formed.

Creamery, a factory for the production of butter. Such them by their burrowing habits injure factories, often run on the cooperative mill-dams and the levees of the Missis-principle, are widely distributed in the sippi.

Crawford (kra'furd), Francis Marmany farms is received and worked into

argol) deposited on the vessels in which grape juice has been fermented. The and Semiramis (1717). At the age of argol is dissolved by boiling with water, seventy-six he wrote the Triumvirate, or the mixture filtered, and the cream of the Death of Cicero, which was brought tartar allowed to crystallize out. The commercial product usually contains a small percentage of calcium tartrate.

Creasote (krē'a-sōt), a substance discovered by Relchenbach about 1831 in wood-tar, from which it is separated by a tedious process. It is generally obtained, however, from the products of the destructive distillation of wood. In a pure state it is oily, heavy, colorless, has a sweetish, burning taste and a strong smell of peat smoke or smoked meat. It is a powerful antiseptic. Wood treated with it is not subject to dry-rot or other disease. It has been used in surgery and medicine with great success. Also spelled creosote.

Creasy (krē'si), Sir Edward Shep-less (krēssi), Sir Edward Shep-less (krēssi)

ject to dry-rot or other disease. It has been used in surgery and medicine with great success. Also spelled creosote.

Creasy (krë'si), SIR EDWARD SHEP-HERD, English historian, was born at Bexley, Kent, in 1812; died in 1878. He was educated at Eton, and at King's College, Cambridge, of which he was elected a fellow in 1834. He was called to the her at Lincoln's Inn in 1837.

United States.

Crécy, a small town of France, in the department of Somme, 9 miles north the department of Somme, 9 miles north of Abbeville and 100 north of Paris; pop. 1748. It is celebrated on account of a battle fought here, August 26, 1346, between the English and French. Edward III and his son, the Black Prince, were both engaged, and the French were defeated with great slaughter, 30,000 foot and 1200 horse being left dead on the field, among whom were the King of Bohemia, the Count of Alencon, Louis, Count of Flanders, with many others of the French nobility.

king's College, Cambridge, of which he was elected a fellow in 1834. He was of Abbeville and 100 north of Paris; called to the bar at Lincoln's Inn in 1837, pop. 1748. It is celebrated on account and was for about twenty years a member of the home circuit. In 1840 he was appointed professor of history at the London University, and in 1860 was made chief-justice of Ceylon, receiving at the contention of the honor of knighthood. His principal works are: The Rise and Progress of the British Constitution and The Fifteen Decisive Battles of the World.

Creationism (krē-ā'shun-i z m), the appecially created for each human fetus as soon as it is formed in the womb; opposed to Traducianism, which teaches that the souls of children as well as their bodies are begotten by reproduction from the substance of the parents; and to Injusionism, which holds that souls are preëxistent, and that a soul is divinely infused into each human fetus as a part of the mystery which sence and transmission of life. The term Creationism has also recently been applied to that theory of the origin of man which is opposed to Evolution.

Crébillon (krā-bē-yōp), Prosper Jotems as part of the mystery which ence and transmission of life. The term Creationism has also recently been applied to that theory of the origin of man which is opposed to Evolution.

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Crébillon (krā-bē-yōp), Prosper Jotems as part of the mystery which ence which men entertain in the ability and disposition of a nation to make good actors; but his next productions, Idoms and the part of the payment is concerned. Public credit is the confidence of t

such promises are expressed or implied. pression. The Nicene Creed was so The term is also applied to the general called from being adopted as the creed credit of individuals in a nation; when of the church at the Council of Nicea merchants and others are wealthy and or Nice, 325 A.D., though its terms were punctual in fulfilling engagements; or subsequently somewhat altered. The when they transact business with honor and fidelity; or when transfers of property are made with ease. So we speak of the credit of a bank when general confidence is placed in its ability to redeem its rotes, and the credit of a mercantile

to enable a person to receive money from their agents at another place.

Crédit Foncier (krā-dē fon-syā), a peculiar mode of raising money on land in France, the peculiarity of which is that the advance must not exceed one-half of the value of the property pledged or hypothecated, and that the repayment of the loan is by

lege of making such loans.

Crédit Mobilier (krā-dē mō bēl-yā), confession of faith for the Anglican Church. The creed of the Church of originated in France in 1852, its objects being to undertake trading enterprises of all kinds on the principle of drawn up by the Westminster Assembly limited liability, to buy up existing trading companies, and to carry on the business of bankers and stock-jobbers.—
CREDIT MOBILIER OF AMERICA was chartered in Pennsylvania, in 1859, for a general loan and contract business. The charter was purchased in 1867 by a company formed for the construction of the Union Pacific R. R., and a congression of faith for the Anglican Church. The creed of the Church of Scotland and other Presbyterian churches is contained in the Confession of Faith, drawn up by the Westminster Assembly of Divines, and completed in 1646.

Creedmoor (krēd'mōr), a station on the Long Island railway, 11 miles east of the city of New York.

Creek (krēk), a small inlet, bay, or company formed for the construction of the Scotland and other Presbyterian churches is contained in the Confession of Faith, drawn up by the Westminster Assembly of Divines, and completed in 1646.

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Creed (krēd), a summary of belief, raise horses, cattle, fowls, and hogs, and from the Latin credo (I believe), with which the Apostles' and Creeds begin. These two creeds, Creeders (cre'pers), a family (Cervicent Creeds begin. These two creeds, cattled the model of birds with the Athension Creed are carried to the complex to the complex to the complex to the creeds of the creed are carried to the complex to the creed of the creed lieve), with which the Apostles' and Nicene Creeds begin. These two creeds, together with the Athanasian Creed, are the most ancient authoritative Christian their habit of creeping on the strong quills laries of faith are preserved in the written which project from the tail feathers, and ings of the early fathers, Irenseus, Original of the strong quills laries of the tearly fathers, Irenseus, Original of the strong quills laries of the early fathers, Irenseus, Original of the strong quills laries of the early fathers, Irenseus, Original of the strong quills laries of the early fathers, Irenseus, Original of the strong quills laries of the early fathers, Irenseus, Original of the strong quills laries of faith are preserved in the written habit of creeping on the strong quills laries of faith are preserved in the written habit of creeping on the strong quills laries of faith are preserved in the written habit of creeping on the strong quills laries of faith are preserved in the written habit of creeping on the strong quills laries of faith are preserved in the written habit of creeping on the strong quills laries of faith are preserved in the written habit of creeping on the strong quills laries of faith are preserved in the written habit of creeping on the strong quills laries of faith are preserved in the written habit of creeping on the strong quills laries of faith are preserved in the written habit of creeping on the strong quills laries of faith are preserved in the written habit of creeping on the woodpeckers in the written habit of creeping on the strong quills laries of faith are preserved in the written habit of creeping on the woodpeckers in the written habit of creeping on the written habit of creeping on the written habit of creeping on the written habi

subsequently somewhat altered. The Apostles Creed probably dates from the end of the fourth century; but there is no evidence of its being accepted in its present form till the middle of the eighth.

The Athanasian Creed was certainly not drawn up by St. Athanasius, as there is its rotes, and the credit of a mercantile house rests on its supposed ability and probity, which induce men to trust to fore the end of the eighth or beginning of its engagements. When the public credit is questionable it raises the premium on leans.

Credit, Letter of, an order given by bankers or others at one place to enable a person to receive money from their agents at another place.

Crédit Foncier (krā-dē fon-syā), a pec u liar mode of Church adopts as 'thoroughly to be reraising money on land in France, the peculiarity of which is that the advance creeds, which as part of her liturgy may creeds, which as part of her liturgy may be read in the Book of Common Prayer, but does not consider any of them to be and that the repayment of the loan is by inspired. Besides these creeds, there are an annuity terminable at a certain date. numerous Confessions of Faith, which Several companies have been established have been adopted by different churches by the French government with the priviand sects. The Thirty-nine Articles of lege of making such loans.

Crédit Mobilier (krā-dē mō bēl-yā), confession of faith for the Anglican Crédit Mobilier a scheme which Church.

sional investigation showed that a num- Australia the term is often applied to a sional investigation showed that a number of congressmen were private owners of the stock. As the railroad had been assisted by grants of land by Congress it was considered highly improper for now residing in Eastern Oklahoma. The members to have a pecuniary interest in number of warriors used to amount to such a concern. The expulsion of one about 16,000, but altogether the tribe does senator was recommended, and two representatives were censured.

Change 2 (krād)

represented by American species. It is breastwork. The adjective crenellated is a pretty and interesting little bird, which applied in architecture to a kind of builds its nest usually in holes or crevembattled or indented molding of frecices of trees. The wall-creeper (Tichod-quent occurrence in buildings of the Normond muraria) of Southern Europe man style.

Searches for its insect food on rocks.

The family is found in all parts of the world man style.

Creole (kre'ol; Spanish, criollo) is the name which was originally given to all the decordants of Spanish bear.

Crefeld. See Krefeld.

Crema (krā'ma), a fortified city of Northern Italy, province Cremona, on the Serio, 25 miles E. S. E. of Milan; pop. 8027. It contains a cathedral richne gellew etc. dral, picture gallery, etc.

Cremation (kre-ma'shun), the destruction of the bedies of the dead by fire or extreme heat.

Cremation was generally practiced in ancient times instead of burial, and has recently been advocated on hygienic grounds. But the modern method is altogether different from the ancient, the slow-burning pile of wood being replaced by the closed furnace of high tempera-ture. Various methods of cremation have ture. Various methods of cremation have been proposed, the great difficulty being to consume the body without permitting the escape of noxious exhalations, and without mingling the ashes with foreign substances. In Siemens' process, a modification of a plan of Sir Henry Thompson, this is successfully accomplished. Cremation societies have been instituted in many of the American States. in many of the American States.

Crematory (kre'ma-to-ri), a building in which cremation is practised. It contains a furnace heated to a very high temperature, into which the body is introduced and converted to aghes.

Cremnitz. See Kremnitz.

Cremona (krē-mō'na), a city of Italy, capital of province of same name, on the left bank of the Po, 47 miles s. E. by E. of Milan. It is surrounded by walls and wet ditches, its circumference being nearly five miles. The most remarkable edifice is the cathedral miles s. E. by E. of Milan. It is surrounded by walls and wet ditches, its circumference being nearly five miles. The most remarkable edifice is the cathedral, begun in 1107 and completed about 1491. Close by, and connected with the cathedral, is the Torazzo, one of the loftiest and most beautiful towers in Italy. Cremona is the seat of a bishopric, and has considerable manufactures of silk, wool, whom were his two sons Antonio and cotton, etc. It was at one time celebrated for its violins, especially those made by Antonio Stradivari, Joseph Guarpet is also known as an engraver. nerius, and members of the Amati family. Creage the name of several species of nerius, and members of the Amati family. Cress, the name of several species of Pop. 39,344. The province has an area

man style.

Creole (krč'ōl; Spanish, criollo) is the name which was originally given to all the descendants of Spaniards born in America and the West Indies. It is now used in a wider sense to signify the descendants of Europeans of any nation born in South America and the West Indies, as well as in some other localities.

Creole dialects are those jargons which Creole dialects are those jargons which originated from the mixture of different languages in the West Indies, Southern United States, etc., and are spoken by the descendants of the slaves. According to the European language which prevails in a Creole dialect it is called French creole, Spanish creole, etc.

Creosote. See Creasote.

Crescendo (kre-shen'do), or Cres. (Italian), a musical term signifying that the notes of the passage over which it is placed are to be gradually swelled. Crescendo passages are marked signfying piano to forte; the corresponding mark diminuendo, or decrescendo, marking the transition from forte to piano.

Crescent (kres'ent; Lat. oresoens, rescent growing), an emblem representing the moon in her horned state. This emblem is of very high antiquity, being that of the Greek goddess Artemis or Diana. It is found on medals of many or Dana. It is found on means of many ancient cities, particularly of Byzantium, from whence it is supposed to have been borrowed by the Ottomans. Since their establishment in Europe it has been the universal emblem of their empire. The crescent has given name to a Turkish order of knighthood from the form of the badge, instituted by Selim, Sultan of Turkey, in 1801.

Pop. 39,344. The province has an area of 695 square miles and a population of order Cruciferse. Water-cress, or Nas-327.802. turtium officinale, is used as a salad, and Crenelle (kre-nel), an embrasure in is valued in medicine for its antiscorbutic an embattled parapet or qualities. The leaves have a moderately

Cretinism

pungent taste. It grows on the brinks of subdivided into the upper or soft chalk, rivulets and in moist grounds. Common containing many flint and chert nodules; garden cress is the Lepidium sativum; the lower or harder chalk, with fewer Normandy cress Barbarea præcox; flints; and the chalk marl; and the winter cress, B. vulgārie; Indian cress, Lower, consisting of sands and clay, and Tropæölum majus; bitter cress, Carsubdivided into the upper greeneand; damine prateness (cuckoo-flower).

Cresselle (kre-sel'; Fr. orecelle), a wooden rattle used in some Roman Catholic countries during Passion Week instead of bells to give notice of

divine worship.

Cresset (kres'et), a name which appears to have been given in the middle ages and later indifferently to the fixed candlesticks in great halls and churches, to the great lights used as beacons and otherwise, and to lamps or firepans suspended on pivots and carried on poles in processions, municipal and military watches, etc.

Cressy. See Crécy.

Crest (krest; Latin, crista), in ancient armor, the plume or tuft of feathers, or the like, affixed to the top of the helmet. In heraldry the crest is a figure originally intended

to represent the ornament of the helmet, but is now gen-erally placed upon a wreath, coronet, or cap of mainten-ance, above both helmet and shield. The crest is con-Crest on a shield. sidered a greater criterion of

nobility than the coat of arms itself, and it is now commonly a piece of the arms. Creston (kres'ton), a city, county seat of Union Co., Iowa, 103 miles E. of Council Bluffs. It has large machine shops and roundhouse and an extension politic plant and the county of t

sive poultry plant etc. Pop. 6924. Creswick (kres'ik), Thomas, an English landscape painter, born in 1811; died in 1869. He was elected an associate of the Royal Academy in 1842, and a member in 1851. His first pictures were admitted into the Academy exhibi-tion when he was in his seventeenth Cretinism (krēt'in-izm), a form of tion when he was in his seventeenth didiccy associated with a year, and his success was afterwards continuous. Among his great works are in Switzerland and other mountainous



A Cretaceous Bird (Hesperornis regalis).

gault, a bluish, tenacious clay; and the lower greensand. Palæontologists have suggested another division founded on the suggested another division founded on the fossil remains found in the system, in accordance with which the upper green-sand and gault are transferred to the upper series, and the lower greensand and Wealden beds and Hastings sands constitute the lower.

Crete (krēt). See Candia.

continuous. Among his great works are in Switzerland and other mountainous England, London Road a Hundred Years Ago, and the Weald of Kent.

Cretaceous (krē-tā'shus; or CHALK), of goiterous parents. They are ill grown in geology the upper and stunted, with swollen bellies. The strata of the Secondary series, immediately below the Tertiary series, and superincumbent on the Odlite system. This group is common to Europe, and ganing, the tongue large. The countries are usually affected with goiter, and are usually affected with goiter, and are usually affected with goiter, head large, the nose sunken and flattened at the bridge, the lips superincumbent on the Odlite system. This group is common to Europe, and gaping, the tongue large. The counteralso to a part of Asia. It consists of nance is dull and heavy; there is general chalk resting upon arenaceous and argillaceous deposits, which are also resemblility. Associated with these are garded as part of the system. It has been feebleness or want of intellect, varying divided into two parts—the *Upper*, conin degree from absolute vacuity to a sisting entirely of chalk or marl, and certain power of acquiring a little knowledge; sometimes deafness and dumbness, perhaps squinting and blindness. Careful treatment under a physician by means

ness, exercise, etc.

Cretonne (kre-ton'), a cotton cloth textures of with various textures of the property of

name from the river Creuse, which rises in it, and traverses it diagonally in a northwest direction, afterwards flowing on to join the Vienne. The surface The surface

on to join the Vienne. The surface is generally rugged, and the soil, which is thin and rests upon granitic rocks, is by no means fertile. Pop. (1908) 274,094.

Creuzer (kroi'tser), George Friedrich and archæologist, born in 1771; died in 1858. For nearly forty-five years he filled the chair of philology and ancient history at Heidelberg. He wrote on the mythology of Greece and other nations, on Greek history and literature, Roman antiquities, etc.

tiquities, etc.

tiquities, etc.

Creuzot (krew-zō), LE, a town of Eastern France, dep. Saone-et-Loire, 14 miles from Autun, with extensive ironworks, the most complete in France. The mining of coals, the smelting of iron, and the manufacture of machinery give employment to about 15,000 workmen in the town and vicinity, the greater number being employed at the works of Schneider & Co. Pop. 33,-500.

Crewe (krö), a municipal town of England, in Cheshire, 21 miles s. E. Chester, an important railway center and the seat of enormous manufactories of railway material. It is a modern town, well laid out, and chiefly inhabited by people connected with the railways. It has a commodious market hall, a corn exchange, mechanics' institution, townhall, etc. Pop. 44,970.

Crewel-work (krö'el), work executed with the needle, and consisting of designs sewed in colored silk or woolen threads on a basis of unbleached cotton or linen, toweling, or the like.

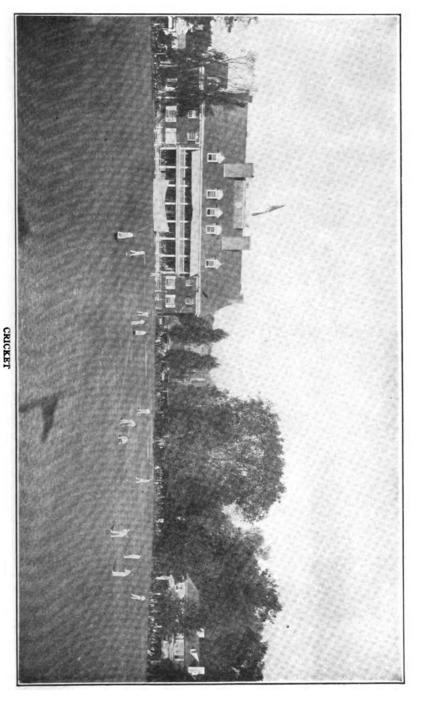
Crewkerne (krőkérn), a town of England, in Somersetshire, 16 miles s. E. of Taunton; manufactures sailcloth. Pop. 3939.

Cribbage (krib'āj), a favorite English game at cards played with the whole pack. It may be played by two, three, or four persons; and when by ful treatment under a physician by means of thyroid extract usually restores the two, three, or four persons; and wnen by victim almost to normal. The treatment two, five or six cards may be dealt to must be almost continuous throughout each. Five-card cribbage played by two life, associated with good food, cleanlipersons is the most scientific game. Sixty-one points make the game; there is the most scientific game. Sixty-one points make the game; there is the most scientific game. Cretonne (kre-ton'), a cotton cloth are no tricks and no trumps, the object with various textures of being to make pairs, fittens, sequences, surface, printed on one side with pictorial or the go, or prevent the adversary from and other patterns, and used for curtains, covering furniture, etc.

Creuse (kreuz), an inland department for the number of 'pips' upon them of France comprising the greater of the old province of Marche; area, 2150 square miles. It derives its suits (two aces, two fours, two kings, name from the river Creuse which rises etc.), counts two: and when there are etc.), counts two; and when there are three or four similar cards, as many pairs are counted as there are different combinations of the cards taken two at a time. Every combination of cards, the united pips of which make up fifteen, counts two. A sequence consists of three or more cards of any suit following one another in rank, and counts one for each card. When the player whose turn it is to play cannot play a card without going beyond thirty-one, the other player scores one for having been the nearest to thirtyone for having been the nearest to thirtyone. This is called scoring one for 'the
go.' The remaining cards after thirtyone, or the next point to it, is made are
thrown up, and each player's cards are
counted. When all the cards in a hand,
either with or without the turn-up card,
are of one suit, or when all the cards in
the crib, with the turn-up card, are of
one suit, it is called a flush, and counts
one for each card. When the turn-up
card is a knave the dealer scores two
of two for his heels'). When a knave
of the same suit with the turn-up card is
found in the hand of either player, the
player in whose hand it is scores one
('one for his nob').

Grichton (kri'ton), James, surnamed

Crichton (kri'ton), JAMES, surnamed the Admirable, a Scottish celebrity, son of Robert Crichton, lord-advocate, was born in 1560; died about 1585. He was educated at the University of St. Andrews, and, according to the current accounts of him, before his twentieth wear had wan the work the surface of the current accounts of him, before his twentieth year had run through the whole circle of the sciences, could speak and write to perfection ten different languages. and was equally distinguished for his skill in riding, fencing, singing and play-ing upon all sorts of instruments. He visited Paris, Genoa, Venice, Padua, etc., challenging all scholars to learned dis-putations, vanquishing doctors of the universities, and disarming the most famous swordsmen of the time in fencing. He was latterly tutor to a son of the



The view shows a game of cricket in progress on the grounds of the Germantown Cricket (lub, one of the oldest and best known cricket clubs in the United States.

The batter is seen bending over with bat in position to defend his wicket and ready to receive the ball.



Duke of Mantua, and is said to have been field. Should the ball be driven any dis-

noise. The house-cricket has been introduced into the United States, and there are several species of field-cricket there also. See also Mole-cricket.

Cricket, a favorite open-air game played with bats, balls, and wickets on a piece of smooth greensward. It is played by two opposite sets or sides of players, generally numbering eleven each. Two wickets of three stumps each are pitched fronting each other at a distance of about 22 yards apart, the stumps being upright rods stuck in the ground, and projecting 27 inches. On the top of each set of stumps are placed two small pieces of wood called bails. After the rival sides have tossed for the choice the rival sides have tossed for the choice of either taking the bat or fielding, two in five successive reigns—those of Henry men are sent to the wickets bat in hand. II, Francis II, Charles IX, Henry III, The opposite or fielding side are all simultaneously engaged; one (the bowler) distinguished himself at the capture of being stationed behind one wicket for the Calais, and in the battles of Dreux, purpose of bowling his ball against the Jarnac, and Moncontour (1569), against opposite wicket, where his coadjutor (the Huguenots, and in the naval battle of wicket-keeper) stands ready to catch the Huguenots, and in the naval battle of wicket-keeper) stands ready to catch the Lepanto against the Turks. The masball should it pass near him; the other sacre of St. Bartholomew was reprobated fielders are placed in such parts of the by him. He fought for Henry at Ivry field as is judged most favorable for against the Catholic League.

(krim), a term used to indicate sometimes a violation of the by the batsman or missed by the wicketby the batsman or missed by the wicketkeeper. It is the object of the batsman higher moral law, sometimes more
to prevent the ball delivered by the specifically the violation of a certain
bowler reaching his wicket either by group of the laws formulated by a nation.
merely stopping it with his bat or by This group properly comprises in its
driving it away to a distant part of the scheme all offenses endangering the wel-

Duke of Mantua, and is said to have been stabbed to the heart in a dastardly tance the two batsmen run across and exmanner by his pupil. The story of his colored; but he was extravagantly praised by Aldus Manutius, the printer of Venice, by whom he was well known. He left some Latin poems, which are said to be possessed of no remarkable quality.

Cricket (krik'et), an insect of the genus Gryllus, or Achēta of are several species. The house-cricket is the Achēta (Gryllus) campestria; the mole-cricket is the Gryllus campestria; the mole-cricket is the Gryllus and inch long, with antennse of about an inch long, with antennse of about an inch and a half, of a pale yellowish color mixed with brown. By the friction of the peculiarly formed wing-covers the males produce that stridulous sound of which these insects as their rivals did. Generally after two comfort. They live in holes and crevices in field-cricket makes a similar noise. The house-cricket has been introduced into the United States, and continue to do so as achievements and continue to do so as cheir with and continue to do so as cheir so risk in being 'run out,' that is, of having at there is no risk in being 'run out,' that is marked to the credit of the ball they are out of their position near the wickets. Each time the bats men run between the wickets is counted as a 'run,' and is marked to the credit of the striker of the ball. If the batsman allows the ball to carry away a bail or a stump, if he knocks down any part of his own wicket, if any part of his person stops a ball that would have otherwise reached his wicket, or if he strikes a ball pestria; the field-cricket is the Gryllus campestria; the sudget is caught by one of the opposite party before it reaches the ground, he is 'out,' that is, he gives up his bat antennse of about an inch long, with an attennse of about an inch long, with an attennse of about an inch long, with an attenn

of the United States.

Cricklade (krik'lād), a town of England, County Wilts, on the Thames and the Severn Canal, 42 miles N. of Salisbury; pop. 5830. Cricklade now gives name to the northern parliamentary division of Wiltshire.

Crieff (krēf), a town of Scotland, County Perth, beautifully situated on a slope above the Earn, backed by lofty hills and crags. The principal manufacture is woolens (shirtings, blankets. tweeds, etc.). Pop. 5208. manufacture is woolens (shirtings, blankets, tweeds, etc.). Pop. 5208.

Crillon (kre-yon), Louis des Balbes de Berton de, a great French

warrior of the sixteenth century, born in 1541; died in 1615. He won distinction

sometimes a violation of the

Hence from the legal point of view crime is sometimes defined as an offense military resources were steadily developed punishable by law directly, as opposed to an offense which the law punishes indirectly by granting damages to the person wronged. (See Criminal Law.) Crimean War (kri-me'an), the struggle between England, sense crime implies freedom of will, the sense crime implies freedom of will, the word, and a fulfilled intention. Hence, though the theoretic rule of common law though the theoretic rule of common law of Europe; 1854 to 1856. The old plans is that all infraction of law is criminal for the extension of Russian power conand penal, it is held that young children, ceived by Catharine II and Potemkin were resuscitated by Nicholas I, who, be Criman (kri-me'a), The (Russ, Krim, lieving that he had secured himself from is that all infraction of law is criminal for the extension of Russian power conand penal, it is held that young children, cived by Catharine II and Potemkin madmen, and idiots cannot commit crimes.

Grimea (kri-me'a), The (Russ, Krime and Chersonésus Taurica), a peninsula of Southern Russia, government of Taurida, to the mainland of which it is attached by the Isthmus of Perekop; it is attached by the Isthmus of Perekop; them into action. Servia, Bosnia, Bularea, 10,000 sq. miles. On the west and south it is washed by the Black Sea, and contantinople was to be provision-portion of which, shut off from the rest and on the east by the Sea of Azof, a and Constantinople was to be provision-portion of which, shut off from the rest and constantinople was to be provision-got of the Crimea belongs to the region of steppes, but the other part, confined entirely to the south, and stretching along the Greek Church throughout the Turkish empire—brought matters to a crisis. An entirely to the south, and stretching along the Russian occupied the Danubian principalities; and war was declared by the Porte; beautiful mountain scenery. Here the trough of the Crimea belongs to the region of sample south ward are luxuriant with vines and olive and mulberry plantawith vines and olive and fruits. The Haussian occupied the Danubian principalities; and war was declared by the Porte; bearing of the productions, bedies a large mumbers of fine-wooled sheep, and horned the Tchernaya and the Alma. The most migrature of limited extent. There are large numbers of fine-wooled sheep, and horned specified by Nicholas, 'for strategic numbers of fine-wooled sheep, and horned making preparations Principalities, and on this evacuation behave a fine production of the Danubian principalities, and on this evacuation behaves a five produced, flax and hemp. The forests ing ordered by Nicholas, 'for strategic numbers of fine-wooled she Greek settlements and minor kingdoms. Five days later the battle of Alma was After being for some time a dependency won by the allies (September 20th), and on Rome, it was overrun by successive the march continued towards the south bodies of barbarians, and in 1237 fell into side of Sebastopol. Soon after St. Arthe hands of the Mongols under Genghis naud died and was succeeded by Canrobkhan. About 1261 the Genoese were permitted to occupy and fortify Kaffa, and menced by a grand attack which proved they rapidly extended their power in a failure, and the Russians under Lithe formation of other settlements. They were expelled, however, in 1475 by at Balaklava (October 25), but were de-Mahomet II, who made it a dependent feated with heavy loss. It was at this bhanats. In 1783 the Russians took pos-

fare of the community, as distinct from session of the country; and with the view civil or private injuries, which are as beof overawing the Turks the great naval tween person and person, and terminate arsenal of Sebastopol, occupying the most with the compensation of the injured. commanding position in the Black Sea, Hence from the legal point of view crime was begun by Catharine II in 1786. Its

was made by the Light Brigade. A second not necessarily mutually exclusive, cases ond attack at Inkerman was again resometimes occurring in which the person was made by the Light Brigade. A second attack at Inkerman was again repulsed by the allies, but the siege works made slow progress during the winter, in succession of Alexander II, in March, in the ill-supplied troops suffered punishment, not as against the indigreat privations. The death of Nicholas and succession of Alexander II, in March, in the same time the criminal is subjected to punishment, not as against the indigreat privations. The death of Nicholas widual, but as against the State. It is, and succession of Alexander II, in March, is not in any strict sense the measure of the morality of actions, though the abortly after an unsuccessful attack on legal enactment tends to enforce itself as the Malakhoff and Redan Lord Raglan approximate expression of the current died, and was succeeded by Simpson. The sense of justice, this expression being bombardment was continued, and in Septable and constantly reflexive character of legal method. The basis of the criminal law of on the Redan by the British proving a Great Britain is to be found in a series failure. The Russians, however, then of loose definitions and descriptions, of withdrew from the city to the north forts and the allies took possession. The chief important, date from the thirteenth censults which originated in the application of the Redan by the Russians, after a splendid defense by the Turks under General Williams. By this time, however, the law as a splendid defense by the Turks under General Williams. By this time, however, in any country, by no Crimea, and overtures of peace were means always represent the law as intergladly accepted. A treaty was accord-Crimea, and overtures of peace were gladly accepted. A treaty was accordingly concluded at Paris on April 27, 1856, by which the independence of the Ottoman Empire was guaranteed. See

Paris, Treaty of. Criminal Law (krim'i-nal), the law relating to crimes. relating to crimes. The general theory of the common law is that all wrongs are divisible into two species: first, civil or private wrongs or torts; secondly, criminal or public wrongs. The former are to be redressed by private the common of the Ine former are to be redressed by private suits or remedies instituted by the parties injured. The latter are redressed by the State acting in its sovereign capacity. The general description of the private wrongs is that they comprehend those injuries which affect the rights and property of the individual, and terminate there: that of public wrongs or offered there; that of public wrongs or offenses being that they comprehend such acts as injure, not merely individuals, but the as injure, not merely individuals, but the community at large, by endangering the peace, the comfort, the good order, the policy, and even the existence of society. In the first, therefore, so far as the law is concerned, the compensation of the individual whose rights have been infringed is held to be a sufficient atonement; but in the second class of offenses it is de-manded that the offender make satisfaction to the community as acting prejudicially to its welfare. The exact boundacially to its welfare. The exact boundaries between these classes are not, how-

upon these consists mainly of parliamentary enactments which originated in the eighteenth century. The laws as formulated, however, in any country, by no means always represent the law as interpreted, the whole system being further complicated by a mass of judicial comments and particular constructions. Thus, while there is a state of the construction of the const while there is a statutory division of crimes into treasons, felonies, and misdemeanors, the distinctions between them are so uncertain that it is possible to regard the first head as merely the isolation gard the first head as merely the isolation of a subcase of felony; while in respect of the second and third classes, the distinction can only be clearly marked by an enumeration of the crimes arbitrarily assigned to each in the common law and judges' decisions. Even in severity of punishment a misdemeanor may rank as high as a felony. The aim of criminal law as at present constituted is both retributive and preventive—in its former aspect being based upon the primitive passion of rebased upon the primitive passion of re-taliation, in the latter primarily upon the fundamental instinct of self-preservation. fundamental instinct of self-preservation. The prevention of crime may, however, be effected in a threefold manner: by imposing a penalty which shall operate by fear to deter men from committing crimes, or by rendering it physically impossible for a man of known criminal tendency to repeat an offense, or by the reformation of the criminal with the reformation of the criminal. With the higher evolution of society the principle of retaliation has fallen into theoretical disrepute, though still a practical legal factor; and the problems of penology are made to turn almost exclusively upon the ever, always, easy to be discerned, even in principle of prevention in these three theory; for there are few private wrongs aspects, and especially in the last two. which do not exert an influence beyond In the several States of the Union the the individual whom they directly injure. doctrine of the English common law is The divisions, torts and crimes, are thus incorporated in the statute laws, as to the classification of the crime and its effects, but the punishment is measured by special statutory enactment. In most of the States the power of pardoning a and a solid scape bearing an umbel of criminal is vested in the governor; in l'ennsylvania, by constitutional provision, a Board of Pardons can make recommendations to the governor for pardons. This is the custom also in Massachusetts. The Crimmp, an agent who for a commission supplies ships with seamen just before sailing, the term being applied by the natives to produce vomiting after especially to low characters who decoy sailors by treating them, advancing money to them, and giving them goods on credit, etc., till they have them in their power, of a ram, as distinguished from the andrunken state after all their money is spent. They also keep an outlook for emigrants, and take them to low lodging houses in which they themselves are interested. terested.

Crimson (krim'zn), a rich, deep-red color, a red that owes its characteristic tint to a certain admixture of blue.

Crinoidea (kri-noi'de-a; Gr. krinon, a lily), the encrinites or the hieraco-sphinz with the head of a sea-lilies, an order of Echinodermata, hawk. sea-lilies, an order of Echinodermata, consisting of animals attached during the whole or a portion of their lives to the sea-bottom by means of a calcareous of jointed stem, from the top of which radiate feather-like, flexible appendages or arms, in the center of which is the mouth. Though comparatively few in number now, they lived in immense numbers in former days, many carboniferous limestones being almost entirely made up of their calcareous columns and joints.

Sandal Cripple Creek, a mining town, capular days, capulated and the exceedingly rich Cripple Creek gold mining district, which has yielded as much as \$30,000,000 in a year. Pop.

Crisis (kri'sis: from the Greek krine-in, to decide), in medicine, the turning-point in a disease at which a worse takes place. In regular fevers the worse takes place on regular days, which

decided change for the better or the worse takes place. In regular fevers the crisis takes place on regular days, which properly a kind of fabric made chiefly of horse-hair, but afterwards generally applied to a kind of petticoat supported by steel hoops, and intended to distend or give a certain set to the skirt of a lady's dress. Hooped skirts (farthingales or fardingales), supported by whalebone, were worn in England in the time of Queen Elizabeth and James I, and the fashion was again introduced in the time of George II. The crinoline proper came into common use about the fashion was again introduced in with the result of establishing a curious periodicity in their recurrence. The comproper came into common use about and sometimes proving by its portentous of the period being attended with implications a source of much inconvenciance and no little danger. The immense bell-shaped crinolines happily fell into disuse about 1866. Crinoline wire was for years a leading branch in the steet trade. A horse-hair and cotton fabric used as a material for making ladies' bonnets is also called crinoline.



Cric-sphinz.

judge in Georgia. He was elected to the coast. The south is generally unfer-Congress from Georgia in 1882, and was tile, and in many parts almost sterile. Speaker of the House 1891-95. He died The principal crops are barley and oats; in 1896.

Crispi (kris'pi), Francesco, an Italian statesman, born at Ribera, Sicily, in 1819; died in 1901. He joined the 1848 revolutionists at Palermo, and

literary value of books and writings, as opposed to the lower or textual criticism, in which is considered the history of writings as the work of penman or printer. In the higher criticism internal instead of external evidence is employed, the object being to trace literary form, construction and method, unity, date, probable authorship, and indications of later editing. It has been canopies, gables, etc. The name is also given to one of the terminal snags on a stag's horn.

Crocket, (krok'et), in Gothic architecture, an ornament, usually in imitation of curved and bent foliage, but sometimes of animals, placed on the angles of the sides of pinnacles, indications of later editing. It has been canopies, gables, etc. The name is also given to one of the terminal snags on a stag's horn.

Crockett, David, an American fronferent opinions have been reached by the two classes of critics, those who deny two classes of critics, those who deny and those who maintain the existence of a supernatural element in the Scriptures.

Crittenden (krit'en-den), John Jon-Woodford Co., Kentucky, in 1787. He studied law, became distinguished as an advocate, and was elected to the United States Senate in 1817 and again in 1835. States Senate in 1817 and again in 1853. President Harrison appointed him attorney-general in 1841, he was reëlected to the Senate in 1843, was attorney-general in the Fillmore cabinet, and senator again 1855-61. He opposed the repeal of the Missouri Compromise, and in 1861, through his influence, the State of Kentucky remained in the Union. He

in 1861, through his influence, the State pendence, to whose cause he devoted himof Kentucky remained in the Union. He died in 1863.

Croatia (kro-a'shi-a), a country Santa Ana, March 6, 1836.

Which forms, along with Slavonia and the 'Military Frontiers,' a province or administrative division in the southwest of the Austrian dominions in the Hungarian portion of the monarchy, partly bounded by the Adriatic; total area, 16,773 sq. miles. Its surface is irregular, the Alps extending into it, and culminating at the height of 4400 feet. The Drave and the Save divide between them the whole drainage system. In the north, on low, sunny slopes, the vine is successfully cultivated; the olive, mulberry and fig thrive well on forms of reptiles. The characters of the

but the whole country is more pastoral than arable. The inhabitants are Croats and Serbs, with a mixture of Germans, Hungarians, Jews and Gypsies. About three-fourths of the population are Caththe successful movement under which Garibaldi conquered Sicily. In the new Italian kingdom he was successively deputy minister and prime minister in 1887-90 and in 1894-96, resigning in 1896 in consequence of the Italian disasters in Abyssinia.

Criticism (krit'i-sizm), The Higher literary value of books and writings, as opposed to the lower or tartings, as opposed to the lower

Crockett, David, an American frontiersman, born in Limestone, Greene County, Tenn., August 17, 1786. He received little education, giving 1786. He received little education, giving his time and energy rather to backwoods pursuits, in which he excelled. In 1813-14 he served under General Jackson in the Creek campaign. In 1828 he became a member of Congress, succeeding largely in winning his seat, it is said, by his ability to relate anecdotes of frontier life at the political meetings. Through his opposition to President Jackson's Indian policy he was defeated for reelection in 1831, but was elected again to the house in 1833. In 1835 he left Tennessee for Texas, where, in the war for Texan independence, to whose cause he devoted himpendence, to whose cause he devoted him-

order Crocodilia are as follows:—The skin Crocus (kro'kus), a genus of plants is covered with square bony plates; the of the order Iridacem or Iris,



Croccodile (Croccodilus Niloticus or sulodris).

Croccodile (Kre'sus), the last king of Lydia, son of Alyattes, whom he succeeded in 560 B.C., and extended the empire from the northern and western coasts of Asia Minor to the Halys on the group were the Teleosasurus, from including the Greek colonies of the mainth and Croccodilus and Collitic and the Strepto-sulodile sulodile (Croccodilus Niloticus or sulodris).

Croccodile (Croccodilus Niloticus or sulodris), the last king of Lydia, son of Alyattes, whom he succeeded in 560 B.C., and extended the empire from the northern and western including the Greek colonies of the mainth and Collite, and the Strepto-land. His riches, obtained chiefly from mines and the gold-dust of the river Pactolus, were greater than those of any king hefore him the control of the succeeded in 560 B.C., and extended the empire from the northern and western including the Greek colonies of the mainth and Collite, and the Strepto-land. His riches, obtained the first the succeeded in 560 B.C., and extended the empire from the northern and western including the Greek colonies of the mainth and the succeeded in 560 B.C., and extended the empire from the northern and western including the Greek colonies of the mainth and the succeeded in 560 B.C., and extended the empire from the northern and western ingress of Asia Minor to the Halys on the east and Mount Taurus on the succeeded in 560 B.C., and extended the empire from the northern and western ingress of Asia Minor to the Halys on the east and Mount Taurus on the the Lias and O'Olite, and the Streptospondylus, from the Lias. O'Olitic and
mines and the glod-dust of the river PacWealden strata. The families now existtolus, were greater than those of any
ing are the Alligatorida, Crocodilida and
being before him, so that his wealth beGavialida. The alligators are all New came proverbial. Having entered upon
World forms. (See Alligator.) The
confined to the East Indies. (See
Gavialida, to which
family the crocodile belongs, have unequal teeth and no abdominal plates,
and the cervical and dorsal plates are
distinct for the most part. The crocodile of the Nile (Crocodilus vulgaris) is
the best known member of the order; another species (C palustrie) is met with
in South Asia, Sunda and the Moluccas.
There is also a species in tropical America. The crocodile is formidable from its
great size and strength, but on shore its
shortness of limb, great length of body,
and difficulty of turning enable men and
animals readily to escape pursuit. In
the water it is active and formidable.
being absorbed in sheep farms or deer
prefers its food in a state of putrefaction. In Egypt it is no longer found
except in the upper or more southern
parts, where the heat is greatest and
the population least numerous. Crocodiles are still common enough in the
river Senegal, the Congo, Niger, etc.
They grow-sometimes to a length of 30
Crocoisite (kro'koi-zit), a mineral, a
first discovered.

order Croccodilia are as follows:—The skin Crocus (krokus), a genus of plants of the order Iridaces or Iris, tail is long and compressed laterally. forming one of the most common orna. The four feet are short, and there are ments of our gardens. Most of the spefive toes on each of the two forefeet, cies are natives of the south of Europe and four on each of the two hind feet, and the Levant; and three grow wild the latter more or less webbed; the in Britain. They may be divided, aclimbs are feeble. The jaws are long and cording to their period of flowering, into cording to their period of howering, into ternal and autumnal. Among the vernal crocuses may be mentioned the white and purple *O. vernus; O. versicolor*, distinguished by the yellow tube of its flower bearded with hairs, and its sweet scent; *O. biflorus*, the Scotch crocus, with beautiful penciled sepals, and clear or bluish-white petals. Among the autumnal species are *O. nudiflorus* and *C. satiums*, whose long, reddish-orange. drooping stigmas when dried form saf-fron. See Saffron.

for Downpatrick. 1809 to the post of secretary to the admiralty, which he retained till the reign of William IV. The Reform Bill was strenuously opposed by him, and on the passing of that measure in 1832 he with of his life he drew from public life. He was one of the founders of the Quarterly Review, and one of its ablest contributors, though and one of its ablest contributors, though his articles display frequent malevolence. His other writings include an edition of Boswell's Life of Johnson; Ulm and Trajalgar and Talavera, two poems; Stories from the History of England, from which Sir Walter Scott derived his idea of Tales of a Grandfather; and editions of the Suffolk Papers, Lady Hervey's Letters, Lord Hervey's Memoirs and Walpole's Letters. He died in 1857.

Croker, Thomas Crofton, a collector of folklore, born at Cork in 1798. While in a merchant's office in in 1798. While in a merchant's office in Cork he commenced the collection of the Cork he commenced the collection of the songs and legends current among the peasantry of the south of Ireland. In 1819 an appointment in the admiralty was obtained for him, and he retired with a pension in 1850. His best-known work is his Fairy Legends and Traditions of the South of Ireland (1825). He died in 1854.

Croll, James, an English physicist, born in 1821; died in 1890. Self-trained in science, he was on the Scotch geological survey 1867-81. He wrote Climate and Time, Stellar Evolution, The Philosophical Bases of Evolution, etc.

Croly (kro'li), George, author and

wrote Climate and Time, Stellar Evolution, The Philosophical Bases of Evolution, etc.

Croly (krö'li), George, author and preacher, born at Dublin in 1780; studied at Trinity College, Dublin; was appointed to a small curacy in Ireland, but resigned it and became a prominent figure in London journalism and letters. His separate literary works comprise: Paris in 1815, a poem; the Angel of the World, a tale; Catiline, a tragedy: Pride shall have a Fall, a comedy, 1824; Salathiel, a romance; etc. He is also the author of several biographical and other works; and numerous sermons. In 1835 he was made second the was made second to be builder of modern Egypt.

Cromer (krö'mer), a small seaport and bathing place of England, County Norfolk, 21 miles x. of Norwich. The old town is now submerged, the sea constantly making fresh encroachments. Pop. (parish) 4074.

Cromlech (krom'lek), an ancient monument consisting of two or more columns of unhewn stone supporting a large tabular block so as to form a rectangular chamber, beneath the floor of which is sometimes found a cist ending the constant of the world, a tale; Catiline, a tragedy: Pride shall have a Fall, a comedy, 1824; Salathiel, a romance; etc. He is also the author of several biographical and other works; and numerous sermons. In 1835 he was made second to be builder of modern Egypt.

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Cromlech (krom'lek), 21 miles x. of the sea const ical and other works; and numerous sermons. In 1835 he was made rector of St. Stephen's, Wallbrook. As a preacher he was deservedly popular. He died in 1860.

The county of Cromarty consists of a Dolmen.

large number of detached portions scattered over the county of Ross with which they are practically merged. The total born near Bolton, England, in 1753. He

He was appointed in area is about 220,800 acres. See Ross

(krom), John, an English artist, son of a Norwich weaver; born in 1769. During the greater part of his life he was a teacher of drawing. of his life he was a teacher of drawing. In 1805 he founded the Norwich Society of Artists, of which he became president as well as chief contributor to its annual exhibitions. He excelled in depicting the scenery of his native county, and especially in his handling of trees; and his high place among British landscape painting of the state o ers is now universally acknowledged. He died in 1821.

Cromer, EVELYN BARING, first Earl (1841-1917), British statesman and administrator, was born at Cromer Hall, Norfolk, and educated at Woolwich Academy. He joined the Royal Artillery in 1858, and in 1872 acted as private secretary to Lord Northbrook, Viceroy of India. He became major in 1876 and was appointed British commissioner of the Egyptian public debt office. sioner of the Egyptian public debt office. He was finance minister of India from 1880 to 1883, when he became British agent and consul-general in Egypt. He was created first Baron Cromer in 1892, viscount in 1897, and earl in 1901. He reorganized every department of the Egyptian administration and was known as 'the builder of modern Egypt.'



Cromlech at Lanyon Cornwall.

Cromarty (krom'arti), a seaport closing a skeleton and relics. Sometimes tremity of the peninsula which separates standing stones, as in the case of the Moray from the Cromarty Firth, Standing stones, as in the case of the Standing stones of Stennis, in Orkney; 16 miles N. E. of Inverness. It was the and sometimes it was itself buried behirthplace of Hugh Miller. Pop. 1242.

The country of Cromarty consists of a Dalmen

Cromwell Cromwell



early displayed a turn for mechanics, and when only twenty-one years of age invented his machine for spinning cotton, which was called a mule, from its combining the principles of Hargreave's spinning the Hargreave' sult of the discipline introduced by Cromsuit of the discipline introduced by Cromwell, the decisive victory of Naseby was gained in 1645, and Lefcester, Taunton, Bridgewater, Bristol, Devizes, Winchester and Dartmouth fell into the hands of the Parliament. On the occasion of the surrender of Charles by the Scottish army in 1646 Cromwell was one of the commissioners and in the distribution of commissioners, and in the distribution of rewards for services received £2500 a rewards for services received £2500 a year from the estates of the Marquis of Worcester. Though at first supporting Parliament in its wish to disband the army, which refused to lay down its arms till the freedom of the nation was established, he afterwards saw reason to Richard Williams, a nephew of Thomas Cromwell, Earl of Essex, whose name he took. Oliver's mother was a daughter of William Steward, of Ely, and could trace her descent back to Alexander, inferior force at Preston (August 17, lord-steward of Scotland, the founder of 1648). Then followed the tragedy of the house of Stuart. The first really authentic fact in his biography is his leaving school at Huntingdon and entering Sidney-Sussex College, Cambridge, his presence, he was appointed lordCromwell Cromwell

heda (September, 1649), crushed the royalist party in that country within six months. Resigning the command to Iremonths. Resigning the command to Ireton, he undertook, at the request of the Parliament, a similar expedition against Scotland, where Charles II had been proclaimed king. With an army greatly reduced by sickness he saved himself from almost inevitable disaster by the splendid victory at Dunbar (September 3, 1850), and a very letter part of the splendid victory at Dunbar (September 3, 1850), and a very letter part of the splendid victory at Dunbar (September 3, 1850). spiendid victory at Dundar (September 3, 1650), and a year later put an end to the struggle by his total defeat of the royalists at Worcester (September 3, 1651). For these services he was rewarded with an estate of £4000 a year, besides other honors.

He already exerted a weighty influhe already exerted a weighty innuence in the supreme direction of affairs, being instrumental in restoring the continental relations of England, which had been almost entirely dissolved, and regulating them so as to promote the interests of commerce. The Navigation Act, from which may be dated the rise of the naval power of England, was framed upon his suggestion, and passed in 1651. The Rump Parliament, as the remnant of the Long Parliament was called, had become worse than useless, and on April 20, 1653, Cromwell, with 300 soldiers, dispersed that body. He then summoned a council of state, consisting mainly of his principal officers, which finally chose a Parliament of persons selected from the three kingdoms, nicknamed Barebone's Parliament, or the Little Parliament. Fifteen months after a new annual Parliament was chosen; but Cromwell soon prevailed on this body, who were totally incapable of governing, to place the charge of the commonwealth in his hands. The chief power ence in the supreme direction of affairs,

lieutenant and commander-in-chief; and had rejected the authority of the second by making a terrible example of Drog- chamber. Abroad his influence still inchamber. Abroad his influence still increased, reaching its full height after the victory of Dunkirk in June, 1658. But his masterly administration was not efhis masterly administration was not effected without severe strain, and upon the death of his favorite daughter, Elizabeth Claypole, in the beginning of August, 1658, his health began to fail him. Towards the end of the month he was confined to his room from a tertian fever, and on September 3, 1658, died at Whitehall, in the sixtieth year of his age. He was buried in King Henry VII's Chapel, in Westminster Abbey, but after the Restoration his body was taken VII's Chapel, in Westminster Abbey, but after the Restoration his body was taken up and hanged at Tyburn, the head being fixed on a pole at Westminster Abbey, and the rest of the remains buried under the gallows.—Great as a general, Cromwell was still greater as a civil ruler. He lived in a simple and retired way, like a private man, and was abstemious, temperate, indefatigably industrious, and exact in his official duties. He possessed extraordinary penetration and possessed extraordinary penetration and knowledge of human nature; and devised the boldest plans with a quickness equaled only by the decision with which he executed them. No obstacle deterred him; and he was never at a loss for expedients. Cool and reserved, he patiently pedients. Cool and reserved, he patiently waited for the favorable moment, and never failed to make use of it. In his religious views he was a tolerant Calvinist. He was about 5 ft. 10 in. in height, his body 'well compact and strong,' and his head and face, though wanting in refinement, were impressive in their unmistakable strength.

He had appointed his eldest son, RIGHARD. his successor; but the republic-

but Cromwell soon prevailed on this body, who were totally incapable of governing, to place the charge of the commonwealth in his hands. The chief power and officers, with Fleetwood at their now devolving again upon the council of officers (December 12, 1653), they declared Oliver Cromwell sole governor tofficers (December 12, 1653), they declared Oliver Cromwell sole governor tofficers, with Fleetwood at their head, compelled Richard to dissolve Parliament; and a few days after he volunderlard of twenty-one men. The new productor with an assistant council of twenty-one men. The new productor behaved with dignity and firmness. Despite the innumerable difficulties which beset him from adverse Parliaments, insurgent royalists, and mutinous republicans, the early months of his rule established favorable treaties with Holland, Sweden, Portugal, Denmark and France. In September, 1656, he called a new Parliament, which undertook the revisal of the constitution and offered Cromwell, the family was Oliver Cromwell, son of the protector. He was a London solicitor, and clerk to St. Thomas' Hospital. Was again installed as Lord-protector, but with his powers now legally defined. He succeeded to the estate of Theobalds, but with his powers now legally defined. Cheshunt Park in 1821, aged seventy-RICHARD, his successor; but the republicnine. He wrote the Memoirs of the

Family Papers, 1820.
Cromwell, Thomas, Earl of Essex, Son of a blacksmith at Putney, in Surrey; born about the year 1490. In his youth he was employed a clark to the English factory at Antwars. clerk to the English factory at Antwerp; in 1510 went to Rome; and on his return to England became confidential servturn to England became confidential servant of Cardinal Wolsey, about 1525. On his master's disgrace in 1529 Cromwell defended him with great spirit in the House of Commons, of which he was then a member; and effectually opposed the articles of treason brought against Wolsey. After the cardinal's death he was taken into the king's service, was knighted and made privy-councilor, and in 1534 became principal secretary of state and master of the rolls. In 1535 he was appointed visitor-general of Cleves; and others of his political schemes failing, he was arrested on a charge of treason, and beheaded on Tower Hill, July 28, 1540.

Cronstadt (k r o n' stat; Hungarian, Brassó), a town of Austria, in Transylvania, after Hermann-stadt the principal seat of the industry and trade of the province, lying in a mountainous but well-wooded and romantic district near its southeast corner. Pop. 68,273.

Cronus (kro'nus), in ancient Greek mythology, a son of Uranus and Ge (Heaven and Earth), and youngest of the Titans. He received the government of the world after Uranus was deprived of it, and was in turn deposed by Zeus. Cronus was considered by the Romans as identical with their Saturnus. Romans as identical with their Saturnus. Crook (kruk), George, soldier, born near Dayton, Ohio, in 1828; died in 1890. He was graduated at West Point in 1852, was promoted captain in 1861, and became a brigadier-general of volunteers about September, 1862. He commanded an army corps under Sheridan in the Shenandoah campaign of 1864 and was breveted brigadier-general in the regular army. After the Civil war was taken into the king's service, in the regular army. After the Civil war was knighted and made privy-councilor, and in 1534 became principal secretary Indian wars, and was one of the chief of state and master of the rolls. In agents in subduing the bloodthirsty 1535 he was appointed visitor-general of Apaches. He was breveted major-general the monasteries in England in order eral in 1865 and made chief cavalry commander in the army, and was raised to the full rank of major-general in 1888. privy seal, and the title of Baron Cromwell of Okeham. On the abolition of the pope's supremacy he was created king's vicar-general, and used all his influence to promote the Reformation. He discovered the metal thallium, inthe was made chief-justice itinerant of vented the radiometer, and by his rethe forests beyond Trent, Knight of the Garter, and finally, in 1539, lord high opened the way to great advances in science. He published works on chemistry, dyelng, and metallurgy, in 1859 grace with the king for the part he took in promoting his marriage with Anne of Cleves; and others of his political schemes of Spiritualism. in the regular army. After the Civil war of Spiritualism.

Crookston (cruks'ton), capital of Polk Co., Minnesota, 300 miles N. W. of St. Paul. It has railway repair shops, machine shops, foundries, large flour mill, tannery, sash and door

factory, etc. Pop. 7559.

Croquet (krō-kā'), an open-air game played with balls, mallets, hoops and pegs on a level area, which should be at least 30 yards long by 20 wide. The iron hoops (shaped like the in-Pop. 68,273.

Cronstadt, a maritime fortress of Russia, about 20 miles w. of Petrograd, in the narrowest part of the Gulf of Finland, opposite to the mouth of the Neva, on a long, narrow, rocky island, forming both by its position and the strength of its fortifications, the bulwark of the capital, and spectively, marking the starting and being also the most important naval station of the empire. Cronstadt used to by any number of persons up to eight, be the commercial port of Petrograd, either individually or arranged in couples but since the construction of a canal givor in sides. The object of the players is ing large vessels direct access to the to drive with the mallets the balls belong. be the commercial port of Petrograd, either individually or arranged in couples but since the construction of a canal givor in sides. The object of the players is ing large vessels direct access to the to drive with the mallets the balls belongapital it has lost this position. Pop. ing to their own side through the hoops 59,539.

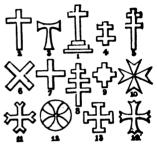
and to prevent the balls of their opponents from completing the journey before their own by playing them against those of the enemy, and driving them as far as possible from the hoop or post to be played for, the player or players whose balls first complete the course claiming the victory

Crosby (kros'be), Frances Jane, an American hymn-writer, born in Putnam County, New York, March 24, 1820; died February 12, 1915. She received instruction at the New York Institution for the Blind and was an instructor there from 1847 until her mar-riage with Alexander Van Alstyne in 1858. She published a number of popular

crosier (kro'zher), the staff borne by some of the higher dignitaries in the Roman Catholic and other churches, and probably the oldest of the insignia of the episcopal dignity. The original form of the staff resembled a shepherd's crook, but from the middle of the fourteenth century the archibishops bethe fourteenth century the archbishops be-gan to carry, sometimes in addition to the pastoral crook, sometimes instead of it, a crosier terminating in a cross or double cross. The crosier is carried by double cross. The crosier is carried by bishops and archbishops themselves only in procession and when pronouncing benediction; on all other occasions it is carried before them by a priest. At Rome the right of bearing the crosier is peculiar to the pope himself, his crosier being in the form of a triple cross.

Cross (kras), one straight body laid at any angle across another, or a symbol of similar shape. Among the ancients a piece of wood fastened across ancients a piece of wood fastened across a tree or upright post formed a cross, on which were executed criminals of the worst class. It had, therefore, a place analogous to that of the modern gallows as an instrument of infamous punishment until it acquired honor from the crucifixion of Christ. The custom of making the sign of the cross in memory of Christ may be traced to the third century. Constantine had crosses erected tury. Constantine had crosses erected in public places, palaces, and churches, and adopted it, according to a legend, as the device for a banner (labarum) in as the device for a banner (1800rum) in first the initiary ensigns of the Crussacconsequence of a dream representing it ers its use in heraldry became frequent,
as the symbol of victory. In his time and its form was varied more than that
also Christians painted it at the enof any other heraldic ordinary, some of
trance of their houses as a sign of their the varieties being of great beauty. The
faith, and subsequently the churches name cross is also given to various archiwere for the most part built in the form tectural structures, of which a cross in
of a cross. It did not, however, become stone was a prominent feature; thus we
an object of adoration until after the have market crosses presching crosses.

be held to connect itself with the fact that it was used emblematically long before the Christian era, in the same way that traces of belief in a trinity, in a war in heaven, in a paradise, a flood, a war in heaven, in a paradise, a nood, a Babel, an immaculate conception, and remission by the shedding of blood are to be found diffused among widely sundered peoples. The general meaning attached to the sign appears to have been that of life and regeneration. Since its adoption by Christianity it has under-



FORMS OF CROSSES.

FORMS OF CROSSES.

1, Cross of Calsary, a cross on three steps. 2, Lain Cross, a cross the transverse beam of which is placed at one-third of the distance from the top of the perpendicular portion, supposed to be the form of cross on which Christ suffered, 3, Tau Cross (so called from being formed like the Greek letter t, tau), or cross of St. Anthony, one of the most ancient forms of the cross. 4, Cross of Lorrains. 5, Patriarchal Cross. 6, St. Andrew's Cross, the form of cross on which St. Andrew's Cross, the form of cross on which St. Andrew's Cross, the form of cross on which St. Andrew's Cross, the form of cross on which St. Andrew's Cross, the form of cross on which St. George, the national saint of Scotland, is said to have suffered. 7, Greek Cross, or cross of St. George, the national saint of England, the red cross which appears on British flags. 8, Papal Cross. 9, Cross nowy quadrat, that is, having a square expansion in the center. 10, Maltess Cross, formed of four arrow-heads meeting at the points; the badge of the Knights of Malta. 11, Cross fourchée or forkel. 12, Cross patités or formée. 13, Cross potent or Jerusalem Cross. 14, Cross fleury, from the fleurs de lis at its ends.

gone many modifications of shape, and has been employed in a variety of ways for ornaments, badges, heraldic bearings, etc. After the introduction of the cross into the military ensigns of the Crusaders its use in heraldry became frequent, and its form was varied more than that of any other heraldic ordinary, some of an object of adoration until after the have market crosses, preaching crosses, alleged discovery of the true cross by monumental crosses, etc. The principal the Empress Helena (A.D. 326). Its forms of the cross as a device or symbol adoption as the Christian symbol may are shown in the accompanying cut. Cross, Exaltation of the, a Catholic festival celebrated on the 14th of September in honor of the re- of different races or stocks. See Breedcovery of a portion of the true cross ing.
from the Persians by Heraclius (628 Cro
A.D) and its erection on Mount Calvary.

Cross, INVENTION OF THE (the finding of the cross), a phrase chiefly used in connection with the Catholic died in 1855. He passed the greater festival in honor of the finding of the part of his life experimenting in electross by the Empress Helena (326 A.D.), tricity. In 1816 he asserted that by celebrated on the 3d of May.

Cross. Victoria. See Victoria Cross.

Crossbar Shot, shots with iron bars crossing through

lic Church, the chaplain of an archbishop to the effects of positive and negative or a primate, who bears a cross before electricity on vegetation.

riving their name from a peculiarity of party or his counsel, their bill, the mandibles of which are curved at the tips, so as to cross each Cross-fertilization. other, sometimes on the one side and the ovule of one flower by the pollen of sometimes on the other. The form of another, usually effected by the agency the bill enables them to extract with ease of insects, the action of the wind, water, the seeds of the pine, their usual food, etc. See Botany.

from underneath the scales of the cones. Crossopterveidæ (-rij'i-dē), a sub-They build and also breed at all seasons of the year, in December, as in March, April, or May. The common crrossbill (Loria curvivostra) is found in the fin-rays of the paired fins being around the fin-rays of the paired fins being arranged so as to form a fringe (Gr. krosnorthern countries of Europe. It is from 6 to 6½ inches in length. The male has a red plumage, the female is of a yellowish-green color. The Loxia pityopsittäcus, or parrot crossbill, is another European species. Two species of crossbill inhabit Canada and the northern States, Loxia Americana, and Curvivostra leucoptera, or white-winged the extremity of each line perpendicular sights are fixed, the instrument being used in taking offsets. They build and also breed at all seasons

crossbill.

Crossbow, or Arbalist, formerly a in taking offsets.

Crossbow, very common weapon for cross-stone, a name given to the minerals harmotome. a shooting, consisting of a bow fastened athwart a stock. The bow, which was often of steel, was usually bent by a lever windlass, or other mechanical conlever windlass, or other mechanical control and aluminium, in both of which the trivance, the missile usually consisting of a square-headed bolt or quarrel, but however, has by some mineralogists occasionally of short arrows, stones, and then crystals cross each other. Harmotome, has been consisted that the control of or a square-neaded boit or quarrel, but nowever, has by some mineralogists occasionally of short arrows, stones, and been called staurolite. The name cross-leaden bullets. Though largely used on the European continent, the crossbow tolite, because of the occasional dark was superseded at an early period in markings on the summits of the crystagland by the more efficient longbow, from which twelve arrows could be depended on mineralogists occasionally arrows. spatched per minute to three bolts of the crossbow.

Cross-days, the three days preceding the feast of the Ascension.

Crosse, ANDREW, an English physician and scientist, born in 1784; electricity it was possible to communicate one's thoughts instantaneously to persons in the most distant parts of the earth, but he never appears to have at-tempted to demonstrate the fact by acthem, sometimes standing out 6 or 8 tual experiment. Among other things inches at both sides, formerly used for he applied electricity in the production destroying rigging, palisading, etc.

Crossbearer (porte-croix, cruciger), fying salt water by electricity, and also made some curious discoveries relative

him on solemn occasions.

Cross'bill (Loxia), a genus of birds of the finch family, deness called by one party by the opposite

Cross-fertilization, in botany, the fertilization of

Crossopterygidæ (-rij'i-dē), a sub-order of ganoid

Crosstrees, in ships, certain pieces of timber at the upper ends of the lower and top masts, athwart which they are laid, to sustain the frame Indies, from the seeds of which croton of the tops in the one, and extend the oil is extracted (see *Croton oil*); and *C*. topgallant shrouds on the



Crotalaria (krō-ta-lär'-nus of leguminous plants,

some of the most danger- B.C. ous, above all the rattle-

Crotch (kroch), WIL-LIAM, a mu-sical composer, born at Norwich, England, in 1775. As a child Norwich, England, in 1775. As a child he showed astonishing precocity, and at the age of twenty-two was appointed professor of music at Oxford University, with the degree of Doctor of Music. In 1822 he became principal of the Royal Academy of Music. He died in 1847. He left a large number of compositions, more es-



Croton Tiglium.

Draco, a Mexican plant, which yields a red, resinous substance used in making varnish. C. Pseudo-china, the copalche plant, yields the bark of that name, but C. balsamiferum, C. aromaticum, and C. thuriferum are morely aromaticum.

nus of leguminous piants, all natives of warm climates, but some of them long cultivated in hothouses. C. juncëa is the sunn-hemp plant.

Crotalidæ (k r ō-tal'ide), a familiary famous for its athletæ, among whom the chief was Milo. It is still more celebrated as the city where the correction of the still more celebrated as the city where the correction of the correction ily of serpents including l'ythagoras taught between 540 and 530

B.C. Croton Oil, a vegetable oil expressed from the seeds of the Croton Tiglium. It is so strongly purgative that one drop is a full dose, and half a drop will sometimes produce a powerful effect, and it should never be used except by the direction of an experienced physician. When applied externally it causes irritations and suppurarienced physician. When applied externally it causes irritations and suppuration, and thus it is used as a counterirritant in neuralgia, etc.

Croton River, a small stream which flows into the Huda large number of compositions, more especially for the organ, piano, and voice, and three technical treatises.

Crochet. See Music.

Croton (krō'ton), a genus of herbaceous plants, shrubs and trees, comprehending a great number of species, many of which possess important medical properties. The more remarkable species are C. Cascarilla, a native of the West Indies and collected for dyeing purposes, and discollected for dyeing purposes.

collected for dyeing purposes, and distinguished as black, brown, white, etc., crottles. Under it are included Parmella physodes, P. caperata, P. saxatilis, Sticta pulmonaria, and Levanora pallescens.

Croup (kröp). Two diseases are com-term 'croup,' one a simple and, if promptly treated, a readily subdued disease, the other most fatal. The former is simple inflammation of the inner lining membrane of the larynx—the box of the windpipe—or of the windpipe itself, or of both. It is common in children, and as the air-passage of children is narrow, the swelling produced by the inflammation so diminishes the space that Florida, which yields the cascarilla bark, a valuable aromatic tonic; C. lacciferum, a native of the East Indies, said to furnish the finest of all the sorts of lac; sounds loud and harsh. The other discussions of the larynx or wind-

pipe, or both, in which a false membrane than in the rook; the rest of the body is is formed which lines the air-passages, a dull smoke-gray. Its food is similar to and so narrows them. Croup frequently that of the carrion-crow, and it builds a proves fatal by suffocation, induced similar nest. either by spasm affecting the glottis or Crowberry, or Crakeberry (Emby a quantity of matter blocking up the strenges or The earliest symptoms resembling the baths and bearing a integration. by a quantity of matter blocking up the air-passages. The earliest symptoms resembling the heaths, and bearing a jet-should be noted, and the treatment in black berry, common in all the northern the absence of immediate medical advice should consist in the application of hot poultices to the upper part of the chest, acid taste and are sometimes eaten, afford while at the same time the child is made a purple dye. The red crowberry (E. to inhale the steam from hot water. rubrum), which has a red fruit, grows liot drinks are beneficial, and the bowels in the neighborhood of the Straits of Marsellen.

while at the same time the child is made to inhale the steam from hot water. Inhale the should be freely opened.

Crousaz (krō-23). Jean Pierre De, a Swiss mathematician and philosopher, born in 1603; deld in 1748 or 1750. His chief works are: Système des Réflexions, on nouvel Essai de Logique; Traité de l'Espriti Humain, etc.; also an examination of lope's Essay on Man, a genus of birds, tincles, may black plumage. The great crowback, and the Jackdaw, the last three of which are described under their respective heads. The carrion-crow, the shooded or Royston crow, the last three of which are described under their respective heads. The carrion-crow, or simply the crow (C. corone), is 18 or 19 inches in length, and about 36 between the tips of the wings. Its plumage is compact and glossy blue-black with some greenish reflections. Its favorite food is carrion of all kinds; but it also preys upon small quadrupeds, young birds, frogs, lizards, etc., and is a confirmed robber of the nests of game birds and poultry. It is not gregarious, being generally met with blotches of brown. The carrion-crow is easily tamed, and may be taught to articulate words. The American crow (C. Americanus) is similar to the foregoing, but is smaller and less robust, and is somewhat gregarious and less robust, and is somewhat gregarious of the foregoing, but is smaller and less robust, and is somewhat gregarious of the foregoing, but is smaller, resembling the preceding but smaller, is sabundant in the coast districts of the Southern States. Its favorite food is chiefly the foregoing, but is smaller, resembling the preceding but smaller, is sabundant in the coast districts of the Southern States. Its favorite food is chiefly the foregoing, but is some what larger t

athletic contests, as rewards for military a mound and cross; the tiara rests on a valor, and at feasts, funerals, etc. It is, circle with pendants like those of a miter. however, with the eastern diadem rather The triple crown of the popes is more than with the classic corona that the commonly called the tiara. crown as a symbol of royalty is connected; indeed, it was only introduced as nected; indeed, it was only introduced as that attacks most fruit such a symbol by Alexander the Great, trees as well as red raspberries, grapes, who followed the Persian usage. An-roses and many other plants. The crown tony were a crown in Egypt and the rolls converted the crown or on the roots. until heralds devised a regular series to



CROWNS
1, Crown of England. 2, Russian Crown. 3, French Crown. 4, Austrian Crown. 5, Imperial Crown (Charlemagne's).

Crown (Charlemagne's).

Grown (Crown-wheel), a wheel with cogs or teeth set at right and partial many the watches that drives the balance.

Groydon (kroi'dun), a municipal and parliamentary borough of London, of which it is practically a the crown of England is a gold circle, suburb, near the Sources of the Wandle, adorned with pearls and precious stones, and near the Banstead Downs. The town, having alternately four Maltese crosses and near the Banstead Downs. The town, which is a favorite residence of merchants and four fleur-de-lis. From the top of and business men, retired tradesmen, etc., the crosses rise imperial arches, closing is surrounded by fine villas, mansions and four fleur-de-lis. From the top of and business men, retired tradesmen, etc., the crosses rise imperial arches, closing is surrounded by fine villas, mansions under a mound and cross. The whole and pleasure grounds. It is a place of covers a crimson velvet cap with an erancient origin, but from its recent rapid mine border. The crown of Charlemagne, increase is almost entirely new. Of spewhich is preserved in the imperial treascial interest are the ramains of the anury of Vienna, is composed of eight clean clean place, long a residence of the plates of gold, four large and four small, Archbishops of Canterbury. Pop. (1911) connected by hinges. The large plates are studded with precious stones, the front one being surmounted with a cross; the smaller ones, placed alternately with

who followed the Persian usage. Anroses and many other plants. The crown
tony wore a crown in Egypt, and the galls occur at the crown or on the roots
Roman emperors also wore crowns of and sometimes on the stems. They are
various forms, from the plain golden fillet
to the radiated or rayed crown. In modroughened surface. The organism which
ern states they were also of various forms
causes the disease lives in the soil for sevuntil heralds devised a regular series to areal years and is were difficult to areal. eral years and is very difficult to eradicate; a long rotation of crops is often necessary.

Crown-glass, the hardest and most colorless kind of window-glass, made almost entirely of sand and alkali and a little lime, and used in connection with flint-glass for optical instruments in order to destroy the disagreeable effect of the aberration of colors.

Crown Imperial. See Fritillary.

Crown Lands, the lands belonging to the British crown. These are now surrendered to the country at the beginning of every sovereign's reign in return for an allowance (the Civil List) fixed at a certain amount for the reign by Parliament. They are placed under commissioners, and the revenue derived from them becomes part of the consolidated fund. See Civil List.

the smaller ones, placed alternately with ands in the South Indian Ocean, between these, are ornamented with enamels representing Solomon, David, Hezekiah and They are all of volcanic origin, and the Isaiah, and Christ seated between two most easterly of them, East Island, has flaming seraphim. The Austrian crown peaks exceeding 4000 feet. The largest, is a sort of cleft tiara, having in the Possession Island, is about 20 miles long middle a semicircle of gold supporting by 10 broad.

Crozier Crnikshank

Crozier. See Crosier.

Crucian Carp (krösh'yan karp), a thick, broad fish, of a deep-yellow color, the Cyprinus carassius, differing from the common carp in having no barbules at its mouth, inhabiting lakes, ponds and sluggish rivers in the north of Europe and Asia.

Crucible (krő'si-bl), a vessel employed to hold substances which are

which forms a Maltese cross, whence their name. The fruit is a pod with a membranous placenta dividing it into two cells. The mustard, watercress, turnip, cabbage, scurvy-grass, radish, horse-radish, etc., belong to this family. They have nearly all a volatile acridity dispersed through every part, from which they have their peculiar odor and sharp taste and their stimulant and antiscortaste and their stimula

rule, the figures on the most ancient crucifixes were not carved, but were engraved on gold, silver, or iron crosses. formation of societies and to legislation
At a later period they were painted on
wood, and it is only in the ninth century, societies was formed in New York and
in the pontificate of Leo III, that the
is still the largest and most influential.
figure of Christ appears carved upon the
Then they spread to the other large
cross in bas-relief. Originally the body
American cities. Liverpool in 1883 and
was represented clothed in a tunic reaching to the feet; afterwards the clothing
in both countries to aid those engaged in ing to the feet; afterwards the clothing was removed with the exception of a cloth round the loins. Until the eleventh century Christ is represented alive; since other and a single nail driven through Having connected himself with the temboth. Many crucifixes bear also the perance movement he produced the Bottle, superscription in an abbreviated form, a powerful and popular series of designs. He latterly turned his attention to oil-

Crucifixion (krö-si-fik'shun), a mode of inflicting capital punof inflicting capital punishment, by affixing criminals to a wooden cross, formerly widely practised, but now chiefly confined to the Mohammedans. Different kinds of crosses were employed, especially that consisting of two beams at right angles and the St. Andrew's cross.

orth of Europe and Asia.

Crucible (krö'si-bl), a vessel employed to hold substances which are to be submitted to a high temperature without collecting the volatile products of the action. It is usually of a conical, circular, or triangular shape, closed at the bottom and open to the top, and is made of various materials, such as fire-clay, platinum, a mixture of fire-clay and plumbago, porcelain, etc.

Cruciferse (krö-sif'e-re), a very extensive nat. order of dicotyledonous plants, consisting of herbs which all have flowers with six stamens, two of which are short, and four sepals and petals, the spreading limbs of which forms a Maltese cross, whence their merts to which it reduced him unsettled his reason and led to his confinement at the mem. The fruit is a pod with a mem.

wall flower, stock, candytuft, etc.

Crucifix (krö'si-fiks), a cross bearing the figure of Christ. As a tion of. The fact that defenseless children are often grossly malrule, the figures on the most ancient cru- treated by inhuman parents and others in both countries to aid those engaged in this benevolent work.

Cruikshank (kruk'shank), George, the greatest of English that period he has been represented as pictorial satirists after Hogarth, born at dead. In the earlier crucifixes, also, the London in 1792, of Scottish extraction. number of nails by which Christ is fixed He began early as a political satirist. In to the cross is four, one through each 1837 he commenced in Bentley's Miscelhand and each foot, while in the more lany his famous series of etchings on modern ones one foot is laid above the steel illustrative of Dickens' Oliver Twist.

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Crusades Cruiser

painting, his most noteworthy pictures the fish swim over the wattles, but are being Tam o'Shanter, Disturbing a Conlect by the ebb. gregation, and The Worship of Bacchus. Crusades (krö-sāds'), the wars carried on by the Christian nations Cruiser (krö'sèr), in present-day naof the West, from the end of the eleventh val phraseology, a vessel built till the latter half of the thirteenth cento secure speed and fuel capacity at the tury, for the conquest of Palestine. They construction has been designed for a minimum speed of 30 knots or over under faromater of 30 knots or over under faromater of conditions. The battleship is the expense of farmor of the knohs of design. The battleship is the expense of the regarded as wore the sign of the cross. The antagonistic views prevailing among naval architects. They strength.

The modern cruiser may be regarded as wore the sign of the cross. The antagonistic views produced a protocoted cruiser was the Atlanta (1884) of the modern type in the United States navy, possession of the Holy Land by the Turks the first was the Atlanta (1884) of the speed of 16 knots, followed by the Nework Jerusalem; and the first strenuous apclass, 19 knots, the Olympia (1892), 21.5 knots, with a possible Amiens, or Peter the Hermit, who in attainment of 30 knots or over under farorable or cruiser were evolved from the conflicting opinions of two opposite unhappy situation of Christians in the schools of design. The battleship is the expression of the thoughts of those who stood for extremely developed battery power, The statements of the pope at the Coungreat thickness of armor plate, and moderate speed. The cruiser is the result of the produced a profound sensation throughtrumph of those who contended for high speed with the Brooklym, which figured large of this class in the United States prominently in the war with Spain in 1898. Recently the armored cruiser has the particular pline and unprovided with necessaries, development of the antagonistic views prevailing among naval architects. The trope of this class in the United States prominently in the war with Spain in 1898. Recently the same. High speed, with had been chosen for their type of this class in the United States provided and the produced a profound sensation throughtrumph of those who contended for high provided with provided with necessaries, development of the antagonistic views provided and the provided with provided with necessaries, development of the antagonistic views provided the provided expense of armor and battery strength. were called *Crusades* because the warriors. The modern cruiser may be regarded as wore the sign of the cross. The antagonof naval construction. Its distinguishing then marched through Asia Minor upon features are certain modifications in the distribution of the mass of protective armor of the ship. Light cruisers are vessels of from 1500 to 7500 tons, used in seconting, as commerce destroyers, etc. They are outside the armored class.

Cruiser, in forestry, the term applied to one who cruises in the forest for the purpose of surveying and estimating the amount and value of the standing timber. A definition of recent origin. Cruive (kröv), a trap for fish, especially salmon, consisting of a sort of hedge of stakes on a tidal river or the sea-beach. When the tide flows

Crusades Crusades

loss of Edessa, which the Saracens conquered in December, 1144. Fearing still stantinople and the establishment of a graver losses, Pope Eugenius III, seconded by Bernard of Clairvaux, exhorted the German emperor, Conrad III, and the King of France, Louis VII, to defend the cross. Both these monarchs of king of Jerusade, undertaken by Anobeyed, and in 1147 led large forces to the East, but returned in 1149 without having accomplished anything.

The third Crusade was undertaken after the capture of Jerusalem by Saladin at the instance of Popes Honorius III

the East, but returned in 1149 without having accomplished anything.

The sisth Crusade, that of Frederick The shird Crusade was undertaken after the capture of Jerusalem by Saladin in 1187, the monarchs Frederick I (Barbarossa) of Germany, Philip Augustus of France, and Richard I (Cœur de Lion) of England, leading their armies in person. Frederick, marching by way of the Danube and crossing from Galipoli, defeated the Turks at Philomelium (now Finiminum), and penetrated to Seleucia, but was drowned in the Selet. His son Frederick led the small remains to Acre and took part in the siege, but after his death in 1191 the German army dwindled away. The other monarchs—Richard and Philip Augustus—had in the meantime met at Vezelai in June, 1190, and agreed to unite their forces at Messina in Sicily, where they spent six months at the end of 1190 and beginning of 1191. Philip joined the other Crusaders before Acre on April 13, 1191; but Richard, whose fleet was separated by a storm, went to Cyprus, and, dispossess storm, went to Cyprus, and disposses and the monarchs, and within a few weeks after the fall of Acre the French is first. He landed his army in 1270 on reached Acre, which surrendered a month later. Jealousies, however, arose between the monarchs, and within a few weeks after the fall of Acre the French is first. He landed his army in 1270 on reached Acre, which surrendered a month halter. Jealousies, however, arose between the monarchs, and within a few weeks after the fall of Acre the French is first. He landed his army in 1270 on reached Acre, which surrendered a month his moderne death of his mother, to

ferred to term himself, Protector of the Among its chief promoters was Godfrey Holy Sepulcher. At his death in 1100 of Villehardouin; Seneschal of Chamhe was succeeded by his brother Baldwin, pagne; Baldwin, Count of Flanders and who had in the earlier part of the Cru-lainaut; Dandolo, the aged Doge of Vensade established himself in Edessa, and ice; and the Marquis of Montferrat, who made himself ruler of an extensive terwas chosen leader. The Crusaders asritory stretching over the Armenian sembled at Venice in the spring of 1202, mountains and the plain of Mesopotamia. but were diverted from their original. The second great and regularly con- purpose first by the capture of the Dalmaducted Crusade was occasioned by the tian town of Zara, and then by the excloss of Edessa, which the Saracens con-pedition which ended in the sack of Con-

the Crusades were of considerable indirect value in that by these joint enterare represented by the barnacles; the Enprises the European nations became more tomostraca by the cyclops, daphnia, etc.; connected with each other, the class of the Podophthalmia by the shrimps, citizens increased in influence, partly because the nobility suffered by extravagant contributions to the Crusades, and fleas, etc. Besides the orders comprised under these classes there are, however, cial intercourse greatly augmented the wall of the cities, and a number of arts and sciences, till then unknown in Europe, were introduced. rope, were introduced.

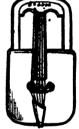
Crusado. See Cruzado.

body is divided into head, thorax and abdomen, of which the two former are abdomen, of which the two former are united into a single mass, cephalothorax, covered with a shield or carapace, and the abdomen usually presents the appearance of a tail. In some—the sand-hopper, wood-louse, etc.—the head is or pinto, dating from 1722, is worth 480 partially distinct from the thorax. The reis, or about 50 cents. Crustacea breathe by branchize or gills, or by membranous vesicles, or by the general surface; and the body is composed of a series of rings more or less distinct. They possess the faculty of reproducing lost parts in an eminent degree. The integument is chitinous (see Chitim) and remains elastic in some, thu mb. Its general gree. The integument is chitinous (see struck or twitched by the Chitin) and remains elastic in some, thumb. Its general as the Isopods, throughout life. But in length was 22 inches, the majority it is calcified or transand its thickness 1½ formed into a hard shell, prisms of carbonate of lime being deposited in the outer layer. It consists of a great number of different pieces connected together mineral a native fluoride outer layer. It consists of a great number of distinct pieces connected together mineral, a native fluoride by portions of the epidermic envelope, of aluminium and sodium, just as among the higher animals certain bones are connected together by Greenland, whence it is cartilages. Several species, if not all, exported. It is of a pale molt or cast these outer skeletons or grayish white or yellowish shells in the progress of growth; this brown, occurs in masses the case with crabs, crayfish, etc. The of a foliated structure, and has a vitreous general grouping of the Crustacea is luster. It has been employed as a source sometimes based upon the successive met- of aluminium, and in the manufacture of Thus, the first stage of the lobster embryo is that of a minute object with three pairs of limbs, known as the Nauplius form; in the second, or Zoëa stage, the cephalothorax is provided with anterior, posterior, and lateral spines; ture in water by its own evaporation. Wollaston's cryophorus consists of two of moltings. But for practical purposes the Crustacea may be considered as ranging themselves under four subsciences; the Cirripedia, the Entomostraca, the Podophthalmia, and the Edri-

yet unattached to either.

Crutched Friars (krucht), an order of friars established Crusca, Accademia Della. See Acadata at Bologna in 1169, and so named from their adopting the cross as their special Crustacea (krusta's hea), one of symbol. It originally formed the head which is divided the great group of their distinctive staff; afterwards they which is divided the great group of wore it in red cloth on the back and Articulate or Annulose animals. The breast of their blue habit.

Cruz, SANTA. See Santa Cruz.



sometimes based upon the successive met- of aluminium, and in the manufacture of amorphoses which the higher Crustaceans a hard porcelainous glass of great beauty. undergo before reaching the adult form. In addition to the Evigtok deposit cryo-Thus, the first stage of the lobster em-lite has been discovered in the Ural Moun-

is buried in a freezing mixture. The aqueous vapor in the globe being thus condensed, a vacuum is produced, fresh vapor rises from the water in the other thick is again appropriate. vapor rises from the water in the other new element discovered in globe, which is again condensed, and June, 1898, by Prof. Ramsay, with Lord this proceeds continuously till the water Rayleigh, joint discoverer of argon. It remaining in the globe has been, by the was obtained from the atmosphere, in evaporation, cooled to the freezing point. which it exists in the proportion of 1 to Crypt (kript), originally a subterra- 20,000,000. Spectrum: chief lines, green nean cell or cave, especially one and yellow, the latter being nearly coinciconstructed for sepulture. From the dent with the helium yellow line, D 3. usage of these by the early Christians Crypt (kris'tal), in chemistry and mineralogy are body which usage of these by the crypt came to signify a church underground or the lower story of a cathedral by the mutual attraction of its particles, or church. It is usually set apart for has assumed the form of some one of the monumental purposes, but is sometimes regular geometric solids, being bounded used as a chapel. The crypt is a common by a certain number of plane surfaces. feature of cathedrals, being always at the chancel or apse. The the chemist procures crystals either by east end, under the chancel or apse. The thing the bodies by heat and then largest in England is that of Canterbury allowing them gradually to cool, or by Cathedral; that of Glasgow Cathedral, dissolving them in a fluid and then one of the most perfect pieces of architecture in Britain.

Cryptogamous Plants (krip-tog'a-mus), CRY-TOGAMIA, the botanical division embracrogamia, the botanical division emoracing the lower classes of plants having no evident flowers or in which the reproductive organs are obscure. They propagate by spores. They are divided into cellular and vascular cryptogams, the former comprising the algae, fungi, lichens, charas, liverworts and mosses; the latter the ferns, horsetails, moonworts, rhizocarps and lyconods. ocarps and lycopods.

Cryptography (krip-tog'ra-fi), the art of writing in secret characters or cipher, or with sympathetic ink. The simplest method consists in choosing for every letter of the alphabet some sign, or another letter or group of letters. Thus the letter of Charles I to the Earl of Glamorgan with respect to the Catholics of Ireland was composed in an alphabet of 24 strokes primatic, rhombio, or trimetric system variously placed about a line. The names (d), in which the axes are at right angles in the records of the Clan-na-Gael Society to each other, but all are of different were, according to the Times newspaper, written in a cipher formed by taking in each case the letter previous to that in-tended; and the cipher devised by Lord Bacon consisted in an alphabet formed by different arrangements of the letters a and b in groups of five. All these All these and o in groups of five. All these right angles and the third is inclined to methods, however, are easily deciphered their plane. 6th, The diclinic or doubly by experts, as also is that employed by oblique system (f), in which two axes the Earl of Argyle in his plot against are at right angles, the third oblique to James II, in which the words of the both. 7th, The triclinic system (g), in letter were set down at concerted dis-which the three axes are inclined to each James II, in which the words of the both. 7th, The triclinic system (g), in letter were set down at concerted dis-tances, the intervals being filled up with other at any angle other than a right misleading words. The art of cryptog- angle. A crystal consists of three parts. raphy has much developed in more recent 1st, Plane surfaces, called faces, which times, and ciphers of great intricacy are said to be similar when they are equal

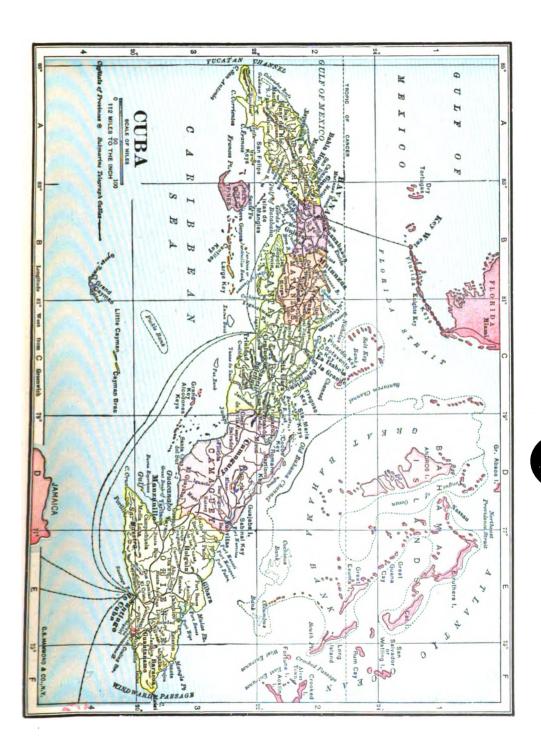
run into one of the globes, and the other are frequently used. Even the more com-

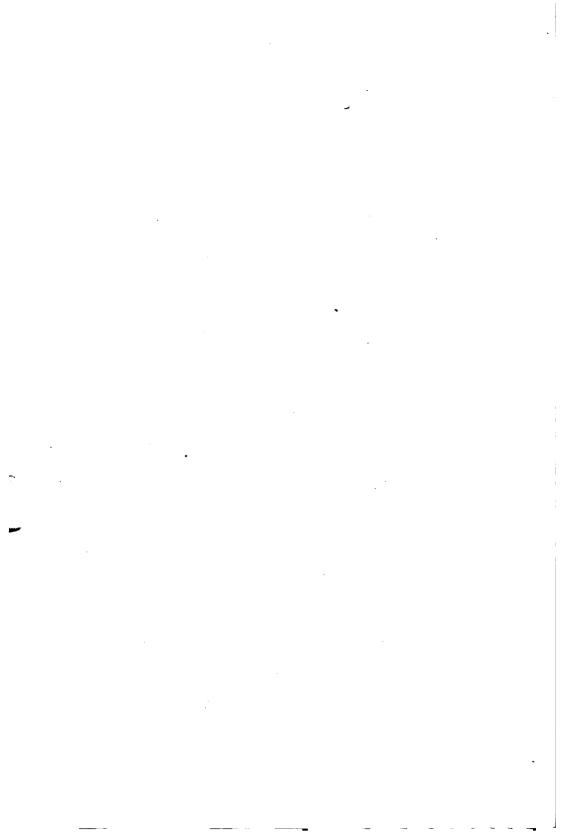
ther are frequently used. Even the more com-The plex, however, present, as a rule, but little thus difficulty to an expert. Fresh Crypton (krip'ton), or KRYPTON, a other and June, 1898, by Prof. Ramsay, with Lord vater Rayleigh, joint discoverer of argon. It the was obtained from the atmosphere, in chief with the proportion of 1 to Crystal (kris'tal), in chemistry and mineralogy, any body which,



Forms of Crystals.

abstracting the fluid by slow evaporation. The method of describing and classifying crystals now universally adopted is based upon certain imaginary lines drawn through the crystal, and called its axes. The classes are as follows: 1st, The monometric, regular, or cubic system (a), monometric, regular, or cuoic system (3), in which the axes are equal and at right angles to one another. 2d, The square prismatic or dimetric system (b), in which the axes are at right angles to each other, and while two are equal, the third is longer or shorter. 3d, The right to each other, but all are of different lengths. 4th, The hexagonal or rhomhengins. 4th, The nexagonal or rhombohedral system (c), which has four axes, three in one plane inclined to each other at 60°, the fourth perpendicular to this plane. 5th, The monoclinic or oblique system (e), in which two axes are at right angles and the third is inclined to their plane 6th The diclinic or double.





to one another and similarly situated; cereals, wines, etc. dissimilar, when they are unequal or have Ctenoid (ten'oid by the meeting of two faces. They are or pectinated on the edge like the teeth of said to be similar when formed by similar a comb, as in the perch, flounder and faces; dissimilar, by dissimilar faces, turbot. Equal edges are formed when the faces Cten Equal edges are formed when the faces Ctenophora (ten-of'o-ra), an order are inclined at the same angle to one considered another; unequal when they are inclined longing to the subkingdom Cœlenterata, at different angles. 3d. Solid angles, definable as transparent, oceanic, gelatformed by the meeting of three or more inous Actinozoa, swimming by means of faces; and in this case also there are ctenophores, or parallel rows of cilia dissimilar and dissim equal or unequal angled edges. The which includes the B angles of crystals are measured by an or Venus girdle, etc.

Pop. 22,619. Ctenoid (ten'oid), applied to the scales of fishes when jagged

faces; and in this case also there are ctenophores, or parallel rows of cilia dissimilar and dissimilar, equal and unequal posed in comb-like plates. They develop solid angles according as they are no coral. Pleuroprachia (or Cydippe) formed by similar or dissimilar faces, and may be taken as the type of the order, equal or unequal angled edges. The which includes the Beroidse, the Cestum

angles of crystals are measured by an or Venus' girdle, etc.
instrument called the goniometer.

Crystalline Rocks (kris'ta - līn),
rocks of a crystalline texture, such as granite, believed to have acquired this character by the action of heat and pressure.

Crystalloid (kris'ta-loid). See Dialoft (kris-ta-loid). See Dialoft (kris-ta-loid).

Cuba (kū'ba), the largest and most western of the West India Isl-Crystallomancy (kris-tal'lo-man-si), western of the West India Islamode of divining ands, lying at the entrance to the Gulf of Crystallomancy (kris-tal'lo-man-si), a mode of divining by means of a transparent body, as a made of divining ands, lying at the entrance to the Gulf of Mexico; about 130 miles from Florida precious stone, crystal globe, etc. The operator first muttered over it certain formulas of prayer, and then gave the crystal (a beryl was preferred) into the hands of a young man or virgin, who received an answer from the spirits within the crystal.

Crystal Palace, a notable building erected in 1852-54 at Sydenham, near London, from the materials of the Great Exhibition of 1851, and originally designed as a great educational museum of art, natural history, and originally designed as a great educational museum of art, natural history, and lofty nave intersected at regular distances by three transepts, of which the central is 384 feet long, 120 feet wide, and 168 feet interior height. It lies in about 200 acres of ground, excellently laid out for recreation, and possesses many permanent attractions apart from the annual round of concerts, flowershows, pyrotechnical displays, etc. Chief among its attractions is the collection of casts of architectural ornaments and Greek, Roman, Alhambra, Byzantine, of the interior require irrigation. There

casts of architectural ornaments and sculpture, arranged in the Egyptian, Greek, Roman, Alhambra, Byzantine, of the interior require irrigation. There Mediæval, Renaissance and Italian Courts.

Csaba (châ'bà), a town of Hungary, from July to September, but no snow is about 110 miles s. E. of Budapest, near the White Körös, Pop. 37.547. though frost occurs occasionally. The Csongrad (chon'gràd), an active marmost valuable domestic animals are the junction of the Körös with the Theiss, proportion of the wealth of the island; the sheep, goat and mule are inferior in

cuba is rich in minerals; those worked are mostly iron and copper. Of the former a large quantity is exported to the United States for admixture with the native ores. Bitumen is plentiful as a liquid and also in a plastic, resinous state. Gold, silver, coal and marble are found in the hilly country. Forests of mahogany, rosewood, cedar, ebony, fustic, palms, etc., abound on the mountains. Large crops of tobacco, sugar, rice, maize, bananas, cotton, coffee, yams and all tropical fruits, together with immense herds of cattle, are raised. Tobacco forms the leading export, sugar having much fallen off by the competition of the beet-sugars of continental Europe and the unsettled state of the island. The sum of exports and imports amounts to about \$250,000,000, the exports being formed to the unsettled state of the island. The sum of exports and imports amounts to about \$250,000,000, the exports being formed the nunsettled state of the island. The sum of exports and imports amounts to about \$250,000,000, the exports being formed the nunsettled state of the island. The sum of exports and imports amounts to about \$250,000,000, the exports being formed the nunsettled state of the island. The sum of exports and imports amounts to about \$250,000,000, the exports being formed the nunsettled state of the island. The sum of exports and imports amounts to about \$250,000,000, the exports being formed the nunser forms the principal industries. Over 2500 miles of railway are in operation, and 5000 miles of relegraph. The Roman Catholic religion was established to the intention of any substance, so by the Spanish law; education was made Roman Catholic religion was established Roman Catholic religion was established by the Spanish law; education was made compulsory in 1880, but was not im-partially carried out. There are 860 public schools, beside a few schools in the towns and a university at Havana. None of the aboriginal race remain, and

cruelly treated the natives, an inoffensive source of nitric acid, and after double derace who had received their oppressors composition with chloride of potassium with great hospitality, and by 1553 the has been employed in the manufacture of entire race became extinct. In 1553 the gunpowder.

French destroyed Havana: it was rebuilt at the strongly fortified in 1554. In 1624

Cubist (kū'bist), a 20th century school of art, whose disciples cubis was taken by the Dutch, but was endeavor to portray what they feel rather soon restored to Spain. From 1650 to than what they see. The cubist avoids 1700 ravaged by filibusters, who in 1688 the definite forms to which the eve is acplundered and destroyed Puerto Principe. customed in other styles of delineation, After 1700 Cube propered streatly. The end works for the most part in combina-After 1700 Cuba prospered greatly. The and works for the most part in combinating the harman in 1762, but in 1763 exchanged it for other nossessions. The and figures. Hence the name English, with American colonists, captured Havana in 1762, but in 1763 exrical figures. Hence the name. changed it for other possessions. It then became a center of the slave trade. Negro insurrections occurred in 1844-48, and over 10,000 negroes were slain in the latter year.

In 1868 commenced an insurrectionary attempt at independence which continued until 1878, and in 1895 another rebellion note from which it derives its name is a

quality and number. The sylvan birds broke out. In April, 1898, war was deare numerous and in great variety, birds clared by the United States against of prey are but few, and snakes and repspan, and in the struggle that ensued tiles are not very plentiful. The shores Cuba was freed from the dominion of abound in turtle, and alligators are found in the deep gulfs and bays.

Cube is rich in minerals, these worked

Cubic Foot, of any substance, so much of it as is contained in a cube whose side is 1 foot. Cubic Niter, or CHILE SALTPETER, the nitrate of sodium found chiefly in the rainless district of Tarapaca in Chile, where it occurs for but few of the indigenous mammals; of the most part mixed with other salts, the latter are two species of aguti and an sand and clay. It crystallizes in obtuse-opossum.

angled rhombohedra, not in cubes, and is Cuba was discovered in October, 1492, used in considerat, not in cubes, and is by Columbus, and colonized in 1511 by dressing for grass and mixed in artificial the Spaniards. Hernando, the governor, manures. It has also been used as a cruelly treated the natives, an inoffensive source of nitric acid, and after double de-

more especially India and Africa, though some are summer visitants of colder climates. In America no true cuckoos some are summer visitants of colder table vegetable in the United States. It climates. In America no true cuckoos is an annual with rough, trailing stems, are found, the genus Cocyzus, to which the so-called American cuckoo belongs, female flowers set in the axils of the differing very essentially from them in its leafstalks. Other species of the cucumbabits. The species best known in ber genus are Cucumis Melo, the common Europe, the Cuculus canorus, is a bird melon, and the watermelon, C. Citrulus. about the size of a small pigeon, though the length of the tail gives it at a little the so-called American cuckoo belongs, differing very essentially from them in its habits. The species best known in Europe, the Cuculus canorus, is a bird about the size of a small pigeon, though the length of the tail gives it at a little the length of the tail gives it at a little distance a strong resemblance to a hawk. The adult bird is ashy gray, with a white persence of its fruit. The adult bird is ashy gray, with a white persence of its fruit. The adult bird is ashy gray, with a white persence of its fruit. The adult bird is ashy gray, with a white persence of its fruit. The adult bird is grayish black; touched at the gape with yellow; eyes and feet yellow. It appears in England about the middle of bitaces. The pompion or pumpkin gourd April, and in May begins to deposit its is C. Pepo. Eggs in the nests of other species, giving the preference to those of the hedge-sparrow, meadow-pipit, or pied wagtail. The tyong cuckoo ejects from the nest its poung cuckoo ejects from the nest its persent for the nest its poung companions, and monopolizes the attentions of its foster-parents, which feed it for short for maken. attentions of its foster-parents, which feed it for about five weeks after it is fledged. The young birds do not leave the country until the end of August or even September; but the adult birds commence their flight southward in July or latest early in August. Their food consists chiefly of cockchafers, moths, dragon-files and caterpillars, though young cuckoos will sometimes eat berries. There appears to be a curious preponderance of male as com-pared with female birds, a low estimate putting the ratio at about five to one.

Cuckoo-flower, or LADY'S-SMOCK (Cardamine prateneis), a common and pretty meadow plant, order Cruciferse, with pale lilac or white flowers. C. pratensis is abundant in Britain, and is found in swamps N. of New York; blossoms in April or May, presenting a very pleasing appearance. It possesses antiscorbutic properties.

Cuckoo-pint, the Arum maculatum, popularly known also by the names of 'lords-and-ladies' or 'common wake-robin.' See Arum.

Cuckoo-spit, a froth or spume found on plants, being a secretion formed by the larvæ of a small homopterous insect (Aphrophora spumaria).

Cuculidæ (ku-kū'li-dē), the systematic name of the cuckoo family.

love-call used only in the mating season. the Levant. Though grown in England The greater number of species belonging in the fourteenth century, it did not beto the genus are confined to hot countries, come generally used until after the reign come generally used until after the reign of Henry VIII. It is now a common table vegetable in the United States. It

perennial, with alternate leaves palmately veined and scabrous, and unisexual flowers. The corolla is monopetalous, regular, and with five lobes; the petals are usually either yellow, white, or green, and deeply veined; the fruit fleshy and succulent. The stems are scabrous, and the general habit is climbing or trailing, by means of tendrils. The order contains at least fifty-six genera and about 300 known species, abounds in useful or remarkable plants, including the melon, gourd, cucumber, colocynth, bryony, etc. They are natives of both hemispheres, chiefly within the tropics. The annuals, however, are commonly grown in our gardens.

Cudbear (kud-bar), a purple or violet colored powder used in dye-

ing violet-purple and crimson, prepared from the Lecanora tartarea and other lichens growing on rocks in Sweden, Scotland, etc. The color, however, is some Cud what fugitive, and in (Lecan Britain it is used tores).



(Lecanora

chiefly to give strength and brilliancy to the indigo blues. There is little essential difference between cudbear and archil. It is also used to give a crimson color to pharmaceutical preparations.

Cuddalore (kud-da-lor'), or KUDALUB, a maritime town in Hin-

a maritime town in Hin-See Cuckoo.

Cucumber (kû'kum-ber), the fruit of Cucumber (Kû'kum-ber), the fruit of South Arcot, 86 miles s. of plant itself, belonging to the Cucurbitaces or gourd order, and supposed to have carries on a large land trade with been originally imported into Europe from Madras in indigo, oils and sugar. It also exports grain and rice.

Cuddapah (kud'dā-pā), or KADAPA, a district and town of Hindustan, presidency of Madras. The district, of which the area is 8745 sq. miles, is traversed N. to s. by the Eastern Ghauts, and watered by the Pennar and its affluents. The forests contain much its affluents. The forests contain much valuable timber, and the minerals include iron ore, lead, copper, diamonds, etc. Agriculture is in a flourishing condition, grain, cotton and indigo being largely grown. Pop. 1,291,267.—The town lies on a small river of same name, an affluent of the Pennar, 140 miles N. w. of Madras. It exports indigo and cotton. Pop. (1901) 16,432.

Cudweed (kud'wed), the popular name in Britain for certain

plants covered with a cottony pubescence, and belonging to the genera Gnaphalium. G. polycephalium, the cottonweed, is common in fields in the United States.

Cudworth (kud'wurth). RALPH, an English divine and philosopher, born in 1617. He took his degree and fellowship at Cambridge in 1639; in 1644 was chosen master of Clare Hall; in the following year regius professor of Hebrew; and in 1654 master of Christ's College, Cambridge, where he spent the rest of his life. In 1678 he published his True Intellectual System of the Universe, wherein all the Reason of the Universe, wherein all the Reason of the Universe, wherein all the Reason and Philosophy of Atheism is Confuted, and its Impossibility Demonstrated (folio)—a work of an exceedingly erudite kind, though tediously discursive in argument. He died in 1688.

ment. He died in 1688.

Cuenca (kwān'ka), a city of Spain,
in New Castile, capital of
Cuenca province, 85 miles E. S. E. Madrid.
Pop. 10,756. It was built by the Moors,
stands on a craggy hill, and has a remarkable cathedral. It was formerly
celebrated for its art manufactures.
Pop. of the province, 249,696; area, 6636
scorers miles square miles.

Cuenca, a town of Ecuador, the third England about in point of importance in teenth century. the country, with a cathedral and university. It has extensive sugar refineries, potteries and woolen factories. Pop. (1908 estimate) 30,000.

Cueva (kwā'yā), JUAN DE LA, a Spanish poet, born about the middle of the sixteenth century. His

works comprise several tragedies, a heroic scientific jurisprudence.

poem, a large number of lyrics and ballads, and the first Spanish didactic poem—on the Art of Poetry. No details are known of his life.

Cufic (ku'fik), a term derived from the town of Cufa or Kufa in Cuncertain etymology; but is probably

Pop. 52,- the pashalic of Bagdad, and applied to a certain class of Arabic written characters. The Cufic characters were the written characters of Arabian alphabet in use from about the sixth century of the Christian era until about the eleventh. They are said to have been invented at Cufa, and were in use at the time of the composition of the Koran. They were succeeded by the Neskhi characters, which are still in use. Under the name of Cufic coins are comprehended the ancient coins of the Mohammedan princes, which have been found in modern times to be impor-tant for illustrating the history of the East. They are of gold (dinar), silver (dirhem), and brass (fals), but the sil-ver coins are most frequent, and numbers

ver coins are most frequent, and numbers of them have been discovered on the shores of the Baltic, and in the central provinces of European Russia.

Cuirass (kwi-ras'), an article of defensive armor, protecting the body both before and behind, and composed of leather, metal, or other materials variously worked. It was in common use throughout Europe in the fourteenth century. In England it fell into disuse in the time of Charles II, and in France a little later. It was reintroduced by Napoleon I, and the achievements of his cuirassiers led to its adoption for regiments of heavy cavalry in most Euroregiments of heavy cavalry in most European armies. See Arms and Armor.

Cuir-bouilly (k w er-bö-i-li), leather softened by bo i ling,

then impressed with ornaments, used for shields, girdles, sword-sheaths, coffers, purses, shoes, and many other articles: also, in the sixteenth century, for hangings for rooms gilded and painted, and, when heightened by gold or silver, known as cuir doré or cuir argenté.

Cuishes, or Cuisses (kwish'es, kwishes, ez), defensive armor for the thighs, originally of buff leather, which was gradually superseded by plate iron or steel. Cuishes were introduced into England about the middle of the four-

Cujas (kū-zhas), JACQUES, or CU-JACJUS, a distinguished French jurist, born about 1520; long professor of law at Bourges; died in 1590. He owed his reputation to the light shed by him on Roman law. He was the founder of the historical legal school, if not of

from Celtic words meaning 'attendant of in the course of the day, one above and God.' It first appears in the eighth center the other below the pole. tury, and the Culdees distinctively so Cultivator (kul'ti-vā-tur), an agricalled seem to have been anchorites living Cultivator (with implement with tury, and the Culdees distinctively so called seem to have been anchorites living called seem to have been anchorites living under their own abbots and for long relong, strong, broad-pointed iron teeth or tines, for tearing up or loosening the wise archæologists have discovered no soil; also called a horse-hoe.

essential point either of faith, ritual or constitution in which they differed from slender cannon used in the essential point either of faith, ritual or constitution in which they differed from the other clergy of the western church. the other clergy of the western church.

Culicidæ (kū-li'-si-dē), a subfamily of dipterous insects, family carried one of about half that weight. Tipulidæ. The genus Culex comprehends the common gnat and the mosquito.

Lanarkshire, in 1710. In 1740 he took the B.C.) It was destroyed A.D. 1207, and a degree of M.D., was appointed in 1751 regius professor of medicine in the University of Glasgow. He died in 1790. His principal works are: Lectures on the Materia ropean city in South America, having Medica, Synopsis Nosologia Methodica, mouth of the Gulf of Cariaco, and has a Cullera (kül-yā'rà), a town of Spain, province and 25 miles s. by trade in cacao, sugar, tobacco, etc. Pop. 12,051.

Culling Piomond an immerse Cumbarlond (kum'ber-land), the

Cullinan Diamond, an immense immense

Cumæ (kū'mē), a very ancient city of Italy, in Campania, the oldest a colony of the Greeks in Italy, founded Culilawan Bark (kū-lil'a-wan), a colony of the Greeks in Italy, founded valuable aromatic, about 1030 B.C. by colonists from Chalcis, pungent bark, derived from Cinnamōmum in Eubca, and from Cyme (Greek, Culilavan, a tree of the Moluccas, useful in indigestion, diarrhea, etc. Called also clove-bark.

Cullen, William, physician and medalso clove-bark.

Lanarkshire, in 1710. In 1740 he took the B.C.) It was destroyed A.D. 1207, and a descript of M.D. was appointed in 1751 refew ruins only now exist.

Cumberland (kum'ber-land), in the Transvaal, in the mines of the Premier Diamond Mining Company, where it was discovered in 1905. Before cutting, its length was 4½ inches; height, 2½ inches; breadth, 2½ inches; total uncut weight 3253¾ carats, or over a pound and a half. It was bought by the South African government for \$1,000,000 and presented to King Edward VII. Subsetented and another 309 3/16 carats.

Culloden Moor (kul-lod'en), a heath in Scotland, 4 miles in Scotland, 4 miles in Scotland, 4 miles in Scotland, 4 miles in Scotland over Prince Charles Edward facture of steel and finished fron. The Stuart (the Pretender) and his adherents. extreme northwestern Stuart (the Pretender) and his adherents. principal crops raised are oats, barley, The battle was the termination of the atments of the Stuart family to recover enclosed lands is sown in clover and the throne of England.

The battle was the termination of the atments of the Stuart family to recover enclosed lands is sown in clover and the throne of England. Culm, in botany, the jointed and usurally herbaceous, but woody and treelike in the bamboo.

Culmination (kul-mi-nā'shun), in astronomy, the passing of a star through the meridian, because it has at that moment reached the highest point (culmen) of its apparent path in the sky. Two culminations take place grass. The rearing of cattle and sheep and dairy farming are engaged in to a considerable extent. Carlisle is the county town; the other principal towns are the seaports Whitehaven, Workington and Maryport; and the inland towns Penrith, Cockermouth and Keswick. Pop. (1911) 265,780.

Cumberland, a town of Providence est point (culmen) of its apparent path in the sky. Two culminations take place

factures cotton, horseshoes, etc., and is It was the scene of important military in a mineral-bearing region. Pop. 10,107. incidents during the Civil War.

Cumberland, a city, the capital Cumberland Mountains, in Tencessee Maryland, on the Potomac, 167 miles by part of a range of the Appalachian systail from Baltimore. It is on the edge of tem, rarely exceeding 2000 feet in height. the great George's Creek Cumberland coal Cumberland basin, and iron is largely worked in the vicinity. There are iron and other manufactures; abundant timber, cement, rock, Pop. 21.839.

Church, a religious denomination founded in 1810 during a revival in Tennessee. They accepted the revival in Tennessee.

through Kentucky and Tennessee into the

Ohio, having a course of about 600 miles, navigable for steamboats, 200 miles.

Cumberland, RICHARD, a notable dramatic writer, born at Cambridge, England, in 1732. After studying at Westminster and Cambridge at Cambridge, England, in 1732. After two Scottish islands in the Firth of studying at Westminster and Cambridge Clyde, belonging to the county of Bute. he became private secretary to Lord They are both small, the only town be-Halifax, who bestowed on him a few ing Millport, a seaside resort. years later a clerkship of reports in Cumbria (kum'bri-a), an ancient the office of trade and plantations. After one or two failures in writing for the stage, his West Indian, brought out by Garrick in 1771, proved eminently successful, and it was followed by the less capital being Alcluyd or Dumbarton. Dopular Fashionable Lover, The Cholerio It was possibly at one time the chief Man, The Note of Hand and The Battle seat of the (legendary) kingdom of of Hastings. In 1775 he became secretary to the board of trade, and in 1780 important and powerful kingdom. It was employed on a mission to Lisbon speedily, however, fell under Saxon domwas employed on a mission to Lisbon speedily, however, fell under Saxon domand Madrid, but failing to satisfy the ination, and early in the eleventh century ministry was compelled to retire. In advas given by Edmund of Wessex to dition he wrote several novels, poems, etc. Malcolm of Scotland to be held as a He also edited the London Review. He fiel of the crown of England. The name died in 1811.

Fontenoy, where he had the command enclosing in some parts narrow put wenter the allied army, he rose in reputation cultivated valleys, with numerous pictures of the allied army, he rose in reputation cultivated valleys, with numerous pictures of the south of the s

Presbyterian

clay, natural gas, etc. Pop. 21,839.

Cumberland, a river of the United Presbyterian creed with the exception of States which runs predestination. In 1906, when they united predestination. In 1906, when they united with the Northern church, they had 2922 churches, with 227,000 members, including 42,000 colored membership.

Cumbrae, or Cumbray (kum-bri'), the Greater and Lesser. (kum-brā'), two Scottish islands in the Firth of

Cumberland, WILLIAM AUGUSTUS, Cumbrian Mountains (k u m'DUKE OF, second son
of George II of England, born in 1721. a range of hills in England, occupying
At the battle of Dettingen he was parts of the counties of Cumberland,
wounded when fighting at the side of Westmoreland, and North Lancashire
his father, and though unsuccessful at The mountains rise with steep acclivities,
Fontenoy, where he had the command enclosing in some parts narrow but wellof the allied army he rose in reputation cultivated valleys with numerous pic-

landing of Charles Edward Stuart in 1745. In 1747 Cumberland was defeated Cumin, belliferous plant (Cuminm he lost the battle of Hastenbeck, against D'Estrées, and concluded the convention at Closterseven, by which 40,000 English soldiers were disarmed and disbanded, and Hanover placed at the mercy of the French. He then retired and caraway-like taste, and possesses in disgrace from his public offices, and stimulating and carminative properties. took no active part in affairs. He died in 1765.

Cumberland Gap, a narrow pass he graduated. At the age of twenty-two he became minister of the Scotch feet wide through the Cumberland Mountains between Kentucky and Tennessee London, where he labored for half a and at the western extremity of Virginia.

over two hundred works. He had a the English court, and establish high reputation as an orator, but he portant connections. See Comyn. was most widely known latterly in con-Cundinamarca (kön-di-na-materia) was most witerly known latterly in connection with his prophecies of the
speedy coming of the end of all things. ments of the Republic of Colombia.

His most popular works were: The Area, estimated 79,810 square miles; pop.

Great Tribulation, The Redemption 537,658.

Draweth Nigh, Apocalyptic Sketches
and Voices of the Night. Died in 1881.

Cundurango (kun-du-ran'go), the
name given in Ecua-

votes as there are persons to be and may give them all to one candidate, or may distribute them among the candidates, as he thinks fit. The principle was first introduced into Britain by the Elementary Education Act of 1870, and has been applied on school board, and later in parliamentary elections. It has been advocated for many years in the

nephew became chancellor of Scotland work of a species of worm, by others as about 1133, and in the middle of the thirteenth century the family counted among bols and the like. The first hints teits members four Scotlish earls. In the wards decipherment were given by Kar beginning of the fourteenth century it stens Niebuhr late in the eighteenth century and the labors of Grotefend, Rask, who slew the son of its head (the Burnouf, Lassen, Rawlinson and other Lord of Badenoch) in Dumfries. The investigators slowly perfected the means

He had a the English court, and established im-(kön-di-na-mär'ka), Cundinamarca

Great Tribulation, The Redemption 537,658.

Draweth Nigh, Apocalyptic Sketches and Voices of the Night. Died in 1881.

Cumming, Roualeyn George Gordon 1820; died at Fort Augustus, in Scotland, in 1866. He entered the army, served some years in India, joined the Cape Rifles, and from 1843 till 1849 administering it to her husband, who made five hunting expeditions into various parts of Africa. Records of his adventures are to be found in his Five Years of a Hunter of South Africa (1856).

Cummins, American legislator, born in Carmichaels, Pa.. in 1850. He was governor of Iowa, 1902-08; elected U. S. Senator (Republican) in 1908 to succeed W. B. Allison, and reflected in 1909. the system by the help of the plant is in question.

Cumulative Vote (kûm'û - la-tiv), the system by described as arrou-headed or nail-headed which every voter is entitled to as many candidate or may distribute them.



mentary elections. It has been advocated for many years in the United States and has been employed to a minor extent in Illinois and and to have been invented by the primimichigan. The supreme court of Michigan pronounced it constitutional in 1891. (a probable Turanian race), from whom Cumyn (kum'in), Comyn, or Cumthey were borrowed with considerable minor at a family whose name modification by the subsequent Babylonia papears frequently in the early history nians and Assyrians, who were Semites of England and Scotland. It had its original possessions near the town of language. The use of the character, Comines in France, and from one of however, ceased shortly after the reign of Alexander the Great; and after the de Comines. The English Comyns came lapse of nearly two thousand years it over with William the Conqueror, and Robert Comyn was sent by William to ever had an intelligible meaning. They reduce the northern provinces. His were even regarded by some as the nephew became chancellor of Scotland work of a species of worm, by others as about 1133, and in the middle of the thir-Comyns who escaped settled down in of translation. Most of the inscriptions

first discovered were in three different Story of Nell Gwynne, Life of Drumlanguages and as many varieties of mond of Hawthornden, Modern London. cuneiform writing, the most prominent, Life of Inigo Jones, etc. He also edited and at the same time the simplest and latest, being the Persian cuneiform writing, the presian cuneiform writing with about sixty letters. Next older and magazines. in time and much more complex is what is designated the Assyrian or Babylonian system of writing, consisting of from 600 to 700 characters, partly 1805; died in 1861. He visited the alphabetic, partly syllabic, or representing sound groups. Finally comes the Accadian inscriptions, the oldest of all, originally proceeding from a people who had reached a considerable degree of civilization more than four thousand years before Christ, and whose language (allied to Turkish) ceased to be a living tongue about 1700 B.C. The most celebrated trilingual inscription is that Greek Erös. He is represented as a celebrated trilingual inscription is that at Behistun, in Persia, cut upon the face of a rock 1700 feet high, and recording a portion of the history of Darius. The British Museum contains many thousands of inscribed clay tablets, cylinders, prisms, etc., the decipherment of which is in progress. Many have also been collected by American investigators, and the University of Pennsylvania has a rich collection of inscriptions. See also Assyria.

Cunene (ku-ne'ne), a river of South Africa, which enters the At-lantic after forming the boundary be-tween the Portuguese and German territories there.

Cuneo. See Coni.

Cunningham (kun'ing-ham), the northern and most fertile district of Ayrshire, Scotland.

Cunningham, Allan, poet, born in 1785, at Blackwood in Dumfriesshire, Scotland; apprenticed in his eleventh year to a stonemason. Having been employed by Cromek to collect materials for his Remains of Nithsdale and Galloway Song, he sent instead his own productions, which were printed, but quickly recognized as being forgeries. He then proceeded to London, where he at first supported himself by journalism, but afterwards obtained a situation in the studio of Chantrey, with whom he remained till his death. His later works comprise the drama of Sir Marmaduke Maxwell; the novels of Paul Jones and Sir which the fruit is enclosed. They are Michael Scott; the Songs of Scotland; his British Painters, Sculptors, and temperate parts of the northern hemi-Architects (1829); and lives of Burns and North America. The chief genera at London in 1842.—His son Peter are the oak, chestnut, beech and hazel. (1816-69) is also known as the author of a series of works, including The

Cupel (kū'pel), a small, shallow, porous, cup-like vessel, used in assays, to separate the precious metals from their alloys. See Assaying.

Cupid (kū'pid; Lat. Cupido), the god of love; corresponding with the Greek Erös. He is represented as a winged infant, naked, armed with a bow and a quiver full of arrows.

and a quiver full of arrows.

Cupola (ku'pō-la), in architecture, a spherical vault on the top of an edifice; a dome or the round top of a dome. The Italian word cupols signifies a hemispherical roof which covers a circular building, like the Pantheon at Rome and the Round Temple of Vesta at Tivoli. The term is also applied distinctively to the concave interior as opposed to the dome forming its exterior. See Dome.

Cunning (kup'ing)

Cupping (kup'ing), a surgical op-eration consisting in the application of the cupping-glass in cases where it is desirable to abstract blood from, or draw it to, a particular part. When blood is removed the operation is When blood is removed the operation is termed cupping or wet-cupping; when no blood is drawn, it is dry-cupping. The cupping-glass, a cup-shaped glass vessel, is first held over the flame of a spirit-lamp, by which means the included air is rarefied. In this state it is applied to the skin, and as the heated air cools it contracts and produces a partial vacuum, so that the skin and integuments are drawn up slightly into the class and

but applied more strictly to a cross between the sheep-dog and terrier.

Curaçao (kö-rá-sã'o'), an island of the Dutch West Indies, in the Dutch West Indies, in the Caribbean Sea, 46 miles N. of the coast of Venezuela; 36 miles long and 8 miles broad; capital Villemstad, principal harbor Santa Anna. It is hilly, wild and barren, with a hot, dry climate. Yellow fever has visited it every sixth or seventh year. Fresh water is scarce, and serious droughts occur. The tamarind, cocoa-palm, banana and other userind, cocoa-palm, banana and other useful trees are reared—among them three varieties of orange, from one of which the Curaço liqueur is made. Sugar, tobacco, cochineal and maize are also produced, but the staple exports are salt, and a valuable absorbed of limits. produced, but the staple exports are salt, and a valuable phosphate of lime used as a manure in its natural state, or made to yield valuable superphosphates. The islands of Curaçao, Bonaire, Oruba (or Aruba), the Little Curaçao form a Dutch government, the residence of the governor being at Willemstad. From the sixteenth century Curaçao was held in succession by the Spaniards, Dutch and British, and finally ceded to Holland at the general peace in 1814. Pop. 29,718; also a native of South America, succession by the Spaniards, Dutch and British, and finally ceded to Holland at the galeated curassow (Craz pauxi) is called the the general peace in 1814. Pop. 29,718; galeated curassow (Craz pauxi) is called the cushew-bird (Urax pauxi) is called the galeated curaçao, or Curaçoa, a liqueur or peruful peruful from a souls; now generally restricted to signify the substitute or assistant of the actual incumbent. In the Church of England curacies are either stipendary or perpetual. A stipendiary curate is one who is steeped in strong alcohol, the infusion being afterwards distilled and rectified and mixed with syrup. For the true orange, the common bitter orange of Europe is often substituted, and the general peace of the substituted and the general peace of the substituted or assistant of the actual incumbent. In the Church of England curacies are either stipendary or perpetual. A stipendiary curate is one who is nited by the rector or vicar to serve for him and may be removed at pleasure; a perpetual curacy is practically a vicarage. In the Protestant Episcopal Church in America the office of curate or special curate. Curari (kô'rā-ri), Cu'rara, Urara, the well-known arrow-poison used by the Indians of Spanish Guiana and of Northern Brazil. It is the aqueous extract of a tree, the Strychnos toxifëra, thickened with mucilaginous matter; and its properties are sons under various disabilities, or of the such that if introduced into a scratch and a valuable phosphate of lime used

Strychnos toxifèra, thickened with mucilaginous matter; and its properties are sons under various disabilities, or of the such that if introduced into a scratch estate of deceased or absent persons and or puncture of the skin, so as to mix insolvents.—In learned institutions the with the blood, it causes death by paperson who has charge of the library or ralysis of the nerves of the respiratory collections of natural history, etc. organs. It may, however, be introduced in moderate doses into the alimentary canal without injury, and animals killed by it are wholesome as food. The active principle is called curaris.

Curassow (kū-ras'sō), or Hocco, the Curb-roof, in architecture, a roof name given to gallinaceous birds of the genus Cras, family Cracistead of continuing straight down from dæ; natives of the warm parts of America. The crested curassow (Cras also height received on plates, which in their tor), found in Guiana, Mexico and Braturn are supported by rafters less in-

but applied more strictly to a cross be- zil, is a handsome bird, nearly as large



Curcas. See Physic-nut.

Curculionidæ (kur-kū-li-on'i-dē), the Curiatii. Curculionidæ (kur-ku-ii-on'i-dē), the we evils or snoutbeetles, one of the most extensive families of coleopterous insects. See Weevil.

Curcuma (kur'ku-ma), a genus of plants of the ginger family, of which C. longa yields tumeric, C. sedoaria, zedoary.

Curd. See Cheese and Milk.

See House.

Curico (kū-ri-kō), a town of Chile. capital of province of same name. Pop. 14,577. Area of province, capital of province of same. Pop. 14,577. Area of province of name. Pop. 14,577. Area of province capital of province of same. Pop. 14,577. Area of province capital of province of same. Pop. 14,577. Area of province capital of province of same name. Pop. 14,577. Area of province capital of province of same name. Pop. 14,577. Area of province capital of province of same name. Pop. 14,577. Area of province capital of province of same name. Pop. 14,577. Area of province capital of province of same name. Pop. 14,577. Area of province capital of province of same name. Pop. 14,577. Area of province capital of province of same name. Pop. 14,577. Area of province capital of province of same name. Pop. 14,577. Area of province capital of province of same name. Pop. 14,577. Area of province capital of province of same name. Pop. 14,577. Area of province capital of province of same name. Pop. 14,577. Area of province capital of province of same name. Pop. 14,577. Area of province capital of province of same name. Pop. 14,577. Area of province capital of province of same name. Pop. 14,577. Area of province of same name. Pop. 14,577. Area of province capital of province of same name. Pop. 14,577. Area of

clined to the horizon, so that this kind of roof presents a bent appearance, functionaries forming the papal court. whence its name. Called also a Mansard roof, from the name of its inventor.

Curb-sender, an automatic signaling secretariat of state, and the vicariate of apparatus invented by Rome, the machinery employed being Sir W. Thomson of Glasgow and Prof. supplied by the chancery, the dataria, Fleeming Jenkin of Edinburgh, and used Sir W. Thomson of Glasgow and Prof. Fleeming Jenkin of Edinburgh, and used in submarine telegraphy. The message is punched on a paper ribbon, which is through special congregations and delecthen passed through the transmitting apparatus by clockwork. The name is due to the fact that when a current of one kind of electricity is sent by the instrunct another of the opposite kind is sent immediately after to curb the first, as departments of the curia; and finally the effect of the second transmission being to make the indication produced by the first sharp and distinct, instead of slow and uncertain. functions of secular administration.

See Horatii.

Curfew (kur'fū; Fr. couvre-feu, cover blende, through which, in 1888, the remarkable element radium was discovered.

Only the bromide of this was known until who directed that at the ringing of the bell at eight o'clock all fires dentally in Paris, April 19, 1908, and and lights should be extinguished. be extinguished. as professor.

The law was repealed by Henry Curie, wious article. See Radium and pre-

The law was repealed by Henry
I in 1100, but the bell continued to be rung in many districts to modern times a n d probably may still be may still be many a still be heard. The name was also given formerly to a domestic utensil for covering up a fire. In the United States an ordinance establishing a curfew, with the purpose of keeping young people off the streets, has existed in Salem, Massachusetts, since Puritan days. Similar ordinances have of late been adopted in other cities, in general providing that children under 15 shall not frequent the streets after 9 o'clock in summer and 8 in winter.

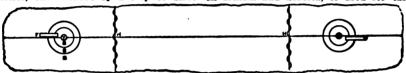
Curia (kt'ri-a), Papat, in its stricter feed on various worms, small fishes, ingening the company of the whimbrel (N. phaopus). They feed on various worms, small fishes, insmitted the papal primacy; in its comverse were shown as the suite of the papal primacy; in its comvery shy, wary birds. Three species of curlew inhabit the species of molluscous animals, and are minister the papal primacy; in its comverse with the porton of Parana, connected by railway inconected by railway, connected by railway with the porton of Parana, connected by r

Curling (kurl'ing), a favorite Scot-tish winter amusement on the ice, in which contending parties slide the ice, in which contending parties slide large smooth stones having somewhat Grossulariaceæ, cultivated in gardens for the shape of a flattened hemisphere, their fruit. The red currant, Ribes reweighing from 30 to 45 lbs. each, with brum, the fruit of which is used princian iron or wooden handle at the top, pally for tarts and jellies, is a native of from one mark to another. The space Southern Europe, Asia and North Amerwithin which the stones move is called ica. The white currant is a cultivated the rink, and the hole or mark at leach variety of the red, and is used chiefly for end the tee. The length of the rink dessert and for conversion into wine. The from the to the varies from 35 to 50 black current R nigrous a native to most

curlew are inhabitants of America—the ministry during the vice-royalty of the long-billed curlew (N. longirostris), Duke of Bedford his patriotism was reabout 29 inches long, with a bill 7 to warded with the office of master of the 9 inches in length; the Hudsonian, or rolls, which he held till 1814, when he short-billed curlew (N. Hudsonicus); retired with a pension of £3000 a year, and the Esquimaux curlew (N. boredlis).

[Recomplete: 1908] [Proposition of the proposition of the proposition of the proposition of the forensic speeches was published in 1908]. lished in 1805.

Current (kur'ant), the name of two well-known shrubs, order from one mark to another. The space Southern Europe, Asia and North Amerwithin which the stones move is called ica. The white currant is a cultivated the rink, and the hole or mark at each variety of the red, and is used chiefly for end the tee. The length of the rink dessert and for conversion into wine. The from tee to tee varies from 35 to 50 black currant, R. nigrum, a native to most yards. The players are arranged in two parts of Europe, and found abundantly parties, each headed by a skip or direction Russia and Siberia, is used for tarts



Curling Rink. T, Tee. BB, Rings round Tee called the Trough. F, Footboard. H, Hog-score, to the number of curlers. The object of the player is to play his stone as near to the mark as possible, to guard that of his partner which has been well laid before, or to strike off that of his antagonist. When the stones on both sides have been all played the stone nearest the tee counts one, and if the second, third, fourth, etc., belong to the same side, each counts one more, the number played for being generally twenty-one. If a player's stone does not cross a line, called the hog-score, at some distance in front of the tee his shot goes for nothing and the stone is removed from the ing and the stone is removed from the rink. The set matches are termed bon-spiels. The game is now played in Eng-land, Canada, and elsewhere.

land, Canada, and elsewhere.

Curran (kur'an), JOHN PHILPOT, an years old before it bears, its cultivation requires a great outlay of capital. After born at Newmarket, near Cork, in 1750. He was educated at Trinity College, large butts. They are now also a product of the bar, and during the administration of the Duke of Portland was raised to the bench. In 1784 he was chosen a member of the Irish House of Commons. A pint of water is added to every four His eloquence, wit and ability soon pints of berries and afterwards a pound made him the most popular advocate of and a half of sugar to each pint, a little his age and country. On a change of spirits being mixed in the liquor before

tor. The number of players upon a and puddings and for a fine jelly recom-rink is eight or sixteen—eight when the mended in cases of sore throat. Many players use two stones each, and sixteen species are indigenous in America, one when they use one stone each. There of them the ornamental Rices aureum. may be one or more rinks according which produces a fine berry. In Austrato the number of curlers. The object lia the name is given to Leucopogon of the player is to play his stone as near Richei, one of the Epacridaceæ, and in to the mark as possible, to guard that Tasmania to certain species of Coprosma, of his partner which has been well laid of the nat. order Cinchonaceæ. The before, or to strike off that of his an-Indian currant of America is the snowberry, Symphoricarpus racemosus. See also Currants, where the origin of the name is given.

Currants (from Corinth, being brought from the adjoining parts of Greece), a small kind of dried grape imported from the Levant, chiefly from the vicinity of Patras in the Morea, and also from Zante, Cephalonia and Ithaca, of which islands the steple produce. are the staple produce. The plant is delicate and the crop precarious, and as the plantation must be six or seven years old before it bears, its cultivation requires a great outlay of capital. After being dried the currants are exported in large butts. They are now also a product of California.

it is set aside to ferment. requires several weeks, and the wine is influencing the subsequent development not fit for use for some months. For of coinage were the prevention of counblack-currant wine the berries are first terfeiting, the prevention of any frauduput over the fire and heated to the boil-lent subtraction of metal from the coin, ing point in as small a quantity of water the removal as far as possible of any-

each other's needs, and there would also property. Articles of ornament, corn, nuts, olive oil, and other vegetable prod-The primitive method of circulating ard coin—took their place alongside the them appears to have consisted simply metallic currency, partly displacing it, in buying and selling them against other partly extending and supplementing it. commodities by a rough estimation of the weight or size of the portions of the monetary issues, whether of coin or metal. Sometimes the metal was in its native state (e. g., rough copper or allustrated to the first approximation to a coinage being probably rudely the source from which they are issued. The certification of the fineness of the shaped rings. The earliest money was masses of metal circulating in a comstamped on one side only, and rather of munity, and the protection from adulting them against other partly extending and supplementing it.

The requisites of circulation are that the monetary issues, whether of coin or paper, shall be from a recognized or official source, and that they admit of being freely returned when necessary to the source from which they are issued. The certification of the fineness of the shaped rings. The earliest money was masses of metal circulating in a comstamped on one side only, and rather of the monetary issues, whether of coin or paper, shall be from a recognized or official source, and that they admit of being freely returned when necessary to be source from which they are issued.

Fermentation as we know them. The chief desiderata as possible.

Currency (kur'en-si), any medium of in the wear and tear of usage, and the processes of trade are facilitated. Origin—monument of the state issuing the coin. processes of trade are racinitated. Origin-monument of the state issuing the coin, ally all exchanges may be supposed to Hence the elaboration of designs to have been made directly by barter, one cover the whole of a given portion of commodity being exchanged for an-metal, and the nicer determination of other according to the convenience of the quality, size, degree of relief, inscription, particular holders. In barter, however, it etc. While, however, metallic money of would obviously often be difficult to find a guaranteed standard value was at an early period found to facilitate in a bitwo persons whose disposable goods suited early period found to facilitate in a high degree the mechanism of exchange, it was speedily discovered that it was poseach other's needs, and there would also arise difficulties in the way of estimating the terms of exchange between unlike things, and of subdividing many kinds of goods in the barter of objects of different value. To obviate these some special commodities in general esteem and demand would be chosen as a medium of exchange and common measure of value, the selection varying with the conditions of social life. In the hunting state furs and skins have been employed by many nations; in the pastoral state sheep and cattle are the chief negotiable property. Articles of ornament, corn, defined by the fact that they can either nuts. olive oil, and other vegetable prodsneep and cattle are the chief negotiable less than the nominal value, which is property. Articles of ornament, corn, defined by the fact that they can either nuts, olive oil, and other vegetable products, cotton cloth, straw mats, salt, cubes of gum, bees'-wax, etc., have all been at various times employed to facilitate exchange. These, however, while tremoving some of the difficulties attendant upon barter, would only partially use of commodities with the least removing some of the difficulties attendant upon barter, would only partially use of the coinage except as a standard solve others. It would be felt by degrees that any satisfactory medium must not only possess utility and value, but the tible, homogeneous, readily destructible, homogeneous, readily divisible, use of actual specie was found to instable in value, and cognizable without volve a loss of interest and a risk of great difficulty. The metals would naturally commend themselves as best satisfying these requirements, and accordingly in all historical ages gold, silver, copper, tin, lead and iron have been che most frequent materials of currency.

The primitive method of circulating ard coin—took their place alongside the them appears to have consisted simply metallic currency, partly displacing it,

Social Statics, that the coinage should adoption. It was abandoned in the be left to the ordinary competition of manufacturers and traders; but when as the single standard of value. See this has occurred the currency has uniformly become debased, and it is generally held, in accordance with the maximus of civil and constitutional law, that the right of coining is a prerogative of the state. Even in the case of state issues base money has been circulated, the last issues base money has been circulated, the last of such debased issues, with the refusal to redeem it at its nominal value, having been made by a petty German prince early in the last century. In the matter of state supervision two precautions are particularly necessary; that the standard weight, and that all coin worn below the least legal weight shall be withdrawn from circulation. The ground for these precautions weight shall be withdrawn from circulation. The ground for these precautions weight shall be withdrawn from circulation while the broad general principle relating to the circulation of money, and known as Gresham's Law, that bed money invariably drives good money out of circulation of metall control with regard to coins in one kind of money, and known as Gresham's Law, that bed money invariably drives good money out of circulation of metall control with regard to coins in one kind of money in the same circulation while the other disappears. Of the American Civil war. The various poly with regard to coins in one kind of money in the same circulation while the other disappears. Of the American Civil war. The various money out of circulation of money on the same lines as it control, while the state issued certified coins in one with the sole issuer of representative money on the currency. The doctrine metall, but to all kinds of money in the same circulation while the other disappears of the distinction between a real of the distinction betwee metals as concurrent standards of value, the trustworthiness of governments, and with the constant tendency of one or is held by many to misconceive the nather to become more valuable as metal ture and objects of a paper currency. than as currency, a third system, the composite-legal-tender, came into existence, in which coins of one metal were adopted to the constant of the cons In which coins of one metal were adopted as the standard of value, and token coins an instrument for measuring the veoly issued in the other metals for the locity of currents. It may be conpayment of small amounts. The last structed in various ways, e.g., a simple system is that now prevalent in Great tube which is bent and has its lower end Britain; but the double-legal-tender system to the current, the ascension of tem, to which the French have long adwater in the vertical part indicating the hered, and which long existed in the velocity of the current.

the necessary acts of police. It is still United States, has found an increasing argued, as by Herbert Spencer in his number of advocates for its universal Social Statics, that the coinage should adoption. It was abandoned in the be left to the ordinary competition of United States in 1900 in favor of gold manufacturers and traders; but when as the single standard of value. See

Currents Currents

Currents (kur'ents), Marine, masses flected in southwesterly and northof sea-water flowing or westerly directions, respectively. It is
moving forward in the manner of a great to such influences that we may, in the
stream. They are phenomena of the main, attribute the well-known differhighest importance, both on account of ences between the climates of North
their influence upon the climate of many America and Europe within correspondmaritime regions—an influence often ent parallels. Other causes, more local
reaching far inland—and their practical in their nature, must be looked for to
relation to the art of navigation. These explain the origin and direction of curhighest importance, both on account of ences between the climates of North their influence upon the climate of many America and Europe within correspondmaritime regions—an influence of the nervice and Europe within correspondmaritime regions—an influence of the nervice and a their practical reaching far inland—and their practical in their nature, must be looked for to relation to the art of navigation. These explain the origin and direction of currents entering and interest of the currents are numerous, and taken together constitute an oceanic circulation of surface or drift currents, for instance, the intricky and irregularity of whose it is probable that these are largely form is due to the number and varicaused by the action of winds. Thuse they of the agencies at work. Among it is to the constant drift of surface the theories which have been put forward water to the westward under the influence the chief place belongs to the theory of torial currents of the Atlantic and largely and the contract of the Atlantic and largely and the contract of the Atlantic and largely and the contract of the Atlantic and largeres denser, than within the best of the South American mainland, become ocean are colder, and hence by many deof necessity divided into two streams, grees denser, than within the best of the South American mainland, become lower portion of the ocean-bed, and a continent, past the outlets of the American mainland, become of the colder of the continent, past the outlets of the American mainland, become lower portion of the ocean-bed, and a continent, past the outlets of the American mainland, become of the tropics. The natural result is a along the eastern coast of Brasil, while tendency of the coder water water to enter a subject to the American mainland, become over which it tends to become diffused. Independent of the South American in the direction of the water water to the direction of the South American in the direction of the continent, past the outlets of the American part of the continent past t mines the direction of the surface currents, the direction being inwards, an order of birds, which where, as in the Mediterranean, the includes the ostrich, rhea, emeu, casso-evaporation exceeds the inflow of fresh wary and apteryx. The birds of this water; and outwards, as in the Baltic order are distinguished by their remarkand the Black Sea, where there is an able velocity in running, the rudimentopposite state of matters.

Curriculum (ku-riku-lum), originally, in Latin, the course over which the race was run, bence the whole course of study at a university necessary to qualify for a particular degree.

Currie (kur'ri), JAMES, the biographer of Burns and earliest editor of his works, was born in Dumfriesshire in 1756; died in 1805. He tried in succession commerce, journalism and medicine, and in 1780, after completing his studies at Edinburgh, he was appointed assistant surgeon in the army. Disappointed in his hopes of promotion, he settled at Liverpool, where army. Disappointed in his nopes of promotion, he settled at Liverpool, where he was made a physician to the infirmary, and increased his reputation by some publications on medicine. Having made an excursion into Scotland in 1792. made an excursion into Scotland in 1792 he had become personally acquainted with Robert Burns, and upon the death of the poet he was induced to become the editor of an edition of his works, to which he addeu a memoir. By this work a sum of £1400 was raised for Mrs. Burns and her family.

Curry (kur'l), an Eastern condiment, a powder composed of cayenne pepper, corlander, ginger, turmeric, and other strong spices.

pepper, coriander, ginger, turmeric, and other strong spices.

Currying (kur'i-ing) is the art of dressing cowhides, calf-skins, sealskins, etc., principally for shoes, saddlery, or harness. after they have come from the tanner. In dressing leather for shoes the leather is first soaked in water until it is thoroughly wet; then the flesh side is shaved to a proper surface with a knife of peoughly wet; then the flesh side is shaved to a proper surface with a knife of peculiar construction, rectangular in form with two handles and a double edge. The leather is then thrown into the water again, scoured upon a stone till the white substance called bloom is forced out, then rubbed with a greasy substance and hung up to dry. When thoroughly dry it is grained with a toothed instrument on the flesh side and brussed on the grain or hair side for the toothed instrument on the flesh side and bruised on the grain or hair side for the purpose of softening the leather. A further process of paring and graining makes it ready for waxing or coloring, in which oil and lampblack are used on the flesh side. It is then sized, dried and tallowed. In the process the leather is made smooth, lustrous, supple and waterproces. waterproof.



MORPHOLOGY OF CURSORES.

A. Sternum of the Ostrich (Struthio comelus):

a. Scapula; c. Coracoid. n. Side View of the
Pelvis of the Ostrich: s. Ilium; p. Publa; is,
Ischium; f. Femur. c. Foot of Apteryz Australia.

D. Tarso-metatarsus of the Apteryz, showing the
hallux placed high up on its posterior surface.

E. Foot of the Rhea Americana.

ary character of their wings, which are too short to be of use for flight, and by the length and strength of their legs. The breast-bone is destitute of the ridge or keel which it possesses in most birds, hence the name Ratitæ. (L. ratis, a raft).

raft).
Curtis (kur'tis), George William, author, born at Providence, Rhode Island, in 1824; died in 1892. In 1851 he published a popular work, Nile Notes of a Howadji, and in 1852 The Howadji in Syria. Later works were Lotus Esting, The Potiphar Papers, Prue and I and Trumps. He became popular as an orator. In 1850 he connected himself with the New York Tribune: in 1853 with Harper's Monthly. In 1857 he became the editor of Harper's Weekly, and of Harper's Basar in 1867. He was an earnest advocate of 1867. He was an earnest advocate of civil service reform.

civil service reform.

Curtius (kurt'se-us). Errst, a German Hellenist, born in 1814; visited Athens and the Peloponnesus in 1837 to make antiquarian researches; appointed tutor to Prince Frederick William; succeeded Hermann as professor at Göttingen in 1856. Of his works, which all relate to Greek antiquities, the which all relate to Greek antiquities, the best known is the *History of Greece*, which has been published in English. Died in 1896.

Curtius, Grord, brother of the nra-ceding, a distinguished phil-

ologist, notable for his application of the comparative method to the study bringing the new method before the public by lectures, publications, and the eswas born at Lübeck in 1820, and in 1862 became professor of classical philology at Leipzig. He died in 1885. Of his works, a Greek Grammar, Principles of Greek Etymology and The Greek in the Adriatic, stretching W. to E about Verb have been translated into English.

Curtius (kur'she-us), Mettus or Marcus, a noble Roman youth, who, according to the legend, plunged with horse and armor into a chasm which had opened in the forum (B.C. 362), thus devoting himself to death for the good of his country, a soothsayer having declared that the dangerous chasm would only close if what was most precious to Rome were thrown into it. into it.

his life.

Curule Magistrates (ku'röl), in ancient Rome, the highest dignitaries of the state, distinguished from all others by enjoying the

solids generated from them constitutes of the United States 1853-57; in 1872 what is called the higher geometry, and was United States counsel at Geneva in forms one of the most interesting and the Alabama Claims arbitration; in 1873 important branches of mathematical was minister to Spain, and in 1874 was important important branches of mathematical was minister to Spain, and in 1874 was science. Curve lines are distinguished into algebraical or geometrical and Justice of the United States Supreme transcendental or mechanical. The varieties of curves are innumerable; that is, they have different degrees of bending or curvature. The curves most generally referred to, besides the circle, are the engaged by Professor Baird to make colellipse, the parabola and the hyperbola, lections of Indian relics for the Natto which may be added the cycloid.

ica, and is exported from Arequipa. It Curtius Rufus, Quintus, a Roman contains a peculiar alkaloid called cuscomers, writer, author of a cinchonine or cusconine, which resembles History of Alexander the Great, in ten cinchonine in its physical qualities, but books, the first two of which are lost. differs from it in its chemical properties. His style is florid, and his narratives When applied medicinally it excites have more of romance than of historical warmth in the system, and has therefore certainty. Nothing certain is known of been recommended in cold intermittents. Cushing (kush'ing), CALEB, statesman and diplomatist, was born at Salisbury, Massachusetts, in 1800; died in 1879. He studied law and was admitted to the bar in 1823, visiting tinguished from all others by enjoying the was admitted to the bar in 1823, visiting privilege of sitting on ivory chairs (sellow Europe soon after and publishing Remcurulles) when engaged in their public iniscences of Spain, and Historical and functions. The curule magistrates were the consuls, prætors, censors and chief France. He served in Congress 1835-43; walles, who, to distinguish them from the plebeian ædiles, were called curule.

Curve (kurv; Latin, curvus, crooked), in 1843, but not confirmed by the Senate; in 1843, but not confirmed by the Senate; of the a straight line in more points than one; took part in the Mexican war, rising in a line in which no three consecutive rank to brigadier-general. In 1852 he points lie in the same direction. The was made a justice of the Supreme Court doctrine of curves and of the figures and of Massachusetts; was Attorney-General solids generated from them constitutes of the United States 1853-57; in 1872

ellipse, the parabola and the hyperbola, lections of Indian refics for the National Museum, and in 1879 accompanied Curwen (kur'wen), John, an English musician, the chief promoter ico, and here for six years dwelt in a of the tonic sol-fa method of teaching to village of the Zufii Indians, learning sing, was born November 14, 1816. He their language and traditions and gain-became a minister of the Independent ing initiation into their secret religious Church, and became acquainted with ceremonies. His researches among the Miss Glover's sol-fa system while visiting that lady's school at Norwich. Af-

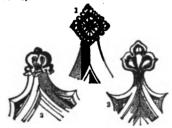
mains of a sea-dwelling people on the Cusso (kus'sō; Hagenia Abyssinian, a Gulf coast of Florida. Died in 1900.

Cushing (kush'ing), WILLIAM BABsacex, yielding flowers which are imat Delafield, Wisconsin, in 1842; died in thelmintic.

1874. He was appointed to the Naval
Academy in 1857, but resigned the next
year, and on the outbreak of the Civil
war entered the service as a volunteer officer. He distinguished himself by gallant service during the war and espectation. (kus'ter). Grober Armstrong. lant service during the war, and especially by his brilliant and daring exploit of blowing up the Confederate ironclad Albermarle while at anchor at Plymouth, North Carolina, in 1864. After the war he served in the Pacific and Asiatic squadrons, reaching the rank of commander.

Cushman (kush'man), CHARLOTTE S., actress, was born at Boston, Massachusetts, in 1816; died in 1876. Her first theatrical appearance was in opera at the Tremont Theater, Boston, but her reputation was gained in the drama, her first appearance in tragedy being as Lady Macbeth in 1835. She showed great power in this field, especially in Shakerovera characters and for men. in Shakesperean characters, and for many years was a favorite on the American stage. She also manifested high ability as a dramatic reader.

Cusp (kusp), the point at which two converging curves meet and have a common tangent. Such points are numerous in architecture in the inter-nal curvings of trefoils, heads of Gothic In the decorated and windows, etc.



Architectural Cusps.—1, Henry VII's Chapel.
2, Monument of Sir James Douglas, Douglas
Church. 3, Beauchamp Chapel, Warwick. 4

Cusparia Bark (kus-pa'ri-a), the bark of the Galipea Cusparia, and some other species. See Angostura Bark.

small Abyssinian tree, order Ro-yielding flowers which are im-

Custer (kus'ter), George Armstrong, soldier, was born in Harrison Co., Ohio, in 1839. He was graduated from West Point in 1861, and entered from West Point in 1861, and entered the army as a cavalry officer. He participated in all but one of the battles of the Army of the Potomac, and was notable for dash and daring. After the Civil war he performed arduous service on the frontier. In 1876, while fighting the Sioux Indians, he and his command were attacked by spiror numbers and were attacked by superior numbers and were all killed.

Custodia (kus-tō'di-a), a shrine of precious metal in the shape of a cathedral, in which the host or the relics of a saint are carried in procession on certain solemn occasions.

Custom House (kus'tom), an establishment where commodities are entered for importation or exportation and the duties, bounties, etc.,

on the same are payable.

Customs (kus'toms), duties charged poor imported into a state. In Great Britain the articles now subject to duty are comparatively few in number, and of these spirits, wine and tobacco furnish two-thirds of the whole revenue from customs. In the United States and many other countries customs duties are levied on the great majority of articles of im-port, and largely with the view of aiding home manufacture by increasing the cost of the imported article. See Tariff.

Cutch. See Catechu.

Cutch (kuch), a state in the west of India, lying to the south of Sind, under British protection; area, 7616 sq. miles. During the rainy season it is wholly insulated by water, the vast perpendicular styles the cusps, in addition to leaves, flowers, etc., were frequently ornamented with heads or anis is formed by the Gulf of Cutch, and on the west it has the Arabian Sea. The country is subject to violent volcanic action. The date is the only fruit which have a flower or action. The date is the only fruit which the principal exports are the Rann of Cutch. salt morass of the Rann separating it on the north and east from Sind and the guicowar's dominions. Its southern side is formed by the Gulf of Cutch, and on thrives, and the principal exports are cotton and horses. The Rann of Cutch covers about 9000 square miles, and is dry during the greater part of the year. Pop. of the state, 488,022.

English Church, was born, according to the tradition, near Melrose about 635. It is well watered, and rice, pulse, sugar, He became a monk, and in 604 was appointed prior of Melrose, which after some years he quitted to take a similar charge in the monastery of Lindisfarne. On the coast, which is low and marshy, and some years he quitted to take a similar wheat and maize in the hill regions. Charge in the monastery of Lindisfarne. On the coast salt is extensively manufactured. Pop. 2,062,758.

Cutter (ku'te'r), a small vessel, furnished with one mast, and a straight running bowsprit which may be at last persuaded to accept the bishopric of Hexham, which he, however, resigned they have a straight running bowsprit which may be run in upon deck. It differs from the sloop in having no stay to support its jib. two years after, again retiring to his hermitage in the island of Farne, where he died in 687. The anniversary of his death was a great festival in the English Church.

Cuttle-bone (ku'ti-kl), the epidermis or outermost layer of the skin, pellucid, insensible membrane that

a thin, pellucid, insensible membrane that beaks.

Cutlass (kut'las), a short sword used congregation and su by seamen. A guard over ter's rebukes before the hand is an advantage. It is, if well to church privileges. understood, a very effectual weapon in Cutwater, of a ship, so close contact; on account of its shortness it can be handled easily, and yet is it cuts or divides the water. long enough to protect a skilful swords
Cutworm, any worm of

made of steel. The finer articles, such as the best scissors, penknives, razors and lancets are made of cast-steel. Table-knives, plane-irons, and chisels of a very superior kind are made of shear-steel, of Wirtemberg. After studying at Stuttwhile common steel is wrought up into ordinary cutlery. One of the commonest articles of cutlery, a razor, is made as follows:—The workman, being furnished leisure to natural science, and in partic-with a bar of cast-steel, forges his blade from it. After being brought into true shape by filing, the blade is exposed labor. The ability and knowledge shown to a cherry-red heat and instantly quenched in cold water. The blade is of the greatest naturalists of France. then tempered by first brightening one He was invited to Paris, established at surface acquires a straw color (or it may be tempered differently). It is again distinguished not less for the elegance of

Cutcherry (kuch'e-ri), in the East quenched, and is then ready for being pround and polished.

or public office.

Cutch Gundava (gun-da'va), a division of Beluchistan, in the northeast; area, 10,000 sq. its embouchure and 230 s. s. w. Calcutta, miles; pop. 100,000.

Cuth hand (kuth'hart) Sm. and is then ready for being ground and polished.

Cuth de la cutta (kut'tak), a town of Hindustan, in Orissa, on the right bank of the Mahanuddy, 60 miles from its embouchure and 230 s. s. w. Calcutta, lit has little trade, and is known mainly cuthbert (kuth'bert), Sr., a celefor its beautiful filigree work in gold brated leader in the early and silver. Pop. 51,364. The district of English Church, was born, according to Cutack has an area of 3654 sq. miles.

Cutis (kû'tis), in anatomy, a dense resisting membrane of a flexible and extensible nature, which forms the general envelope of the body; it is next below the cuticle, and is often called the churches in Scotland, on which oftenders against chastity were exhibited before the concretion and submitted to the miniscongregation and submitted to the minis-ter's rebukes before they were readmitted

Cutwater, the sharp part of the bow of a ship, so called because

Cutworm, any worm or grub which is destructive to cultivated Cutlery (kutler-i), is a term applied plants, as cabbage, corn, beans, etc.
made of steel. The finer articles, such as

Cuvier (kuv-ya), Georges Léopole
CHRÉTIEN FRÉDÉRIC DAGO their style than for profound knowledge and elevated speculation, were attended by all the accomplished society of Paris. Howers of which blue is the type, passing in January, 1800, he was appointed to the Collège de France. Under Napoleon, who Collège de France. Under Napoleon, who is distinguished from the zanthès serfully recognized his merits, Cuvier held important offices in the department of public instruction. In 1819 he was received among the forty members of the French Academy. He died at Paris in 1832. Among the numerous works by which he greatly extended the study of natural history we may mention Recherches sur les Ossemens Fossiles; Discour sur les Révolutions de la Surface de la Globe; Leçons d'Anatomie Comparée; Histoire Naturelle des Poissons; family found both massive and in regular Cyanite, or KYANITE (sl'a-nit, kl'a-de la Globe; Leçons d'Anatomie Comparée; Histoire Naturelle des Poissons; family found both massive and in regular crystals. Its prevailing color is blue, but of varying shades. It is found only in mals were divided into the four great primitive rocks.

Cyanogen (sl-an'ik), in botany, a series of colors in flowers of which blue is the type, passing into red or white, but never into yellow. Cyanide (sl'a-nid), a combination of cyanogen with a metallic base.

Cyanin (sl'a-nid), a combination of the violet, cornflower, etc. It is extracted from the petals by alcohol.

Cyanite, or KYANITE (sl'a-nit, kl'a-de la Globe; Leçons d'Anatomie Comparée; Histoire Naturelle des Poissons; family found both massive and in regular crystals. Its prevailing color is blue, but of varying shades. It is found only in remain of carbon and one of nitrogen; around control of arbon and one of nitrogen; around control of arbon and one of nitrogen; their style than for profound knowledge Cyanic Series (si-an'ik), in botany, and elevated speculation, were attended Cyanic Series of colors in

Cuyp (koip), ALBERT. See KUYP.

of the same name, is situated in a wide valley about 11,300 feet above sea-level, between the Apurimac and Urubamba. The houses are built of stone, covered with red tiles, and are many of them of the era of the Incas. The ruins of the orthese built by the Incas. The houses are built of stone, covered this up between himself and the sky, turn-with red tiles, and are many of them of ing it gradually round till he find the the era of the Incas. The ruins of the tint of the instrument exactly corresponding to the tint of the sky. specimen of cyclopean architecture, are still to be seen, as well as other massive specimens of ancient Peruvian architecspecimen of cyclopean architecture, are **Cyanosis** (si-a-no'sis), a condition in still to be seen, as well as other massive which, from lack of proper specimens of ancient Peruvian architecture, aeration, the blood is blue instead of red; ture. The inhabitants manufacture sugar, hence called the blue disease; the blue

(1773-1838) was also a naturalist of no atom of carbon and one of nitrogen; mean order.

Symbol, CN (or Cy). It is a gas of a Cuxhayen (kuks'hāyn), a German strong and peculiar odor, resembling that mean order.

Cuxhaven (kuks'hāvn), a German seaport, bathing-place, and pilot station in Hamburg territory, at the a rich, purple flame. It is irrespirable mouth of the river Elbe. The harbor is and highly poisonous. It unites with large and commodious, and there are shipyards, a lighthouse, an old castle, fortifications, etc. Pop. 6906.

Cuyabá (kö-yà-bà'), or Jesus de lements, and also with the metals, forming cyanides. Combined with hydrogen it forms prussic (hydrocyanic) acid. See Prussio Acid.

Cuyaba, nearly 300 miles above its entrance into Paraguay. Pop. 17,815.

There are rich gold-mines in the district.

Choin) Arrest See Kuip.

Cuyp (koip), Albert. See Kuyp.

Cuzco (köz'kö), an ancient city in each of which is painted with a shade of Peru, capital of a department blue, beginning with the deepest, not of the same name, is situated in a wide distinguishable from black, and decreasivalley about 11,300 feet above sea-level, ing gradually to the lightest, not distinguishable from white. The observer holds the houses are built of stone covered this un between himself and the sky. It is consistent of stone covered this un between himself and the sky. It is consistent or market and covered this un between himself and the sky. It is consistent or market and covered this un between himself and the sky. It is consistent or a circular piece of metal or pasteboard, with a shade of which is painted with a shade of the same name, is situated in a wide distinguishable from black, and decreasively about 11,300 feet above sea-level, ing gradually to the lightest, not distinguishable from white. The observer holds

soap, cotton and woolen goods, etc. jaundice of the ancients. It is sometimes
There is a university, a cathedral, etc. due to malformation of the heart, whereby
Cusco is the most ancient of the Peruvian the venous and arterial currents mingle. jaundice of the ancients. It is sometimes due to malformation of the heart, whereby Cusco is the most ancient of the Peruvian the venous and arterial currents mingle. cities, and was at one time the capital of the empire of the Incas. In 1534 it was taken by Pizarro. Pop. about 30,000. Area of the department, about 156,317 This process is in very common use by sq. miles; pop. 328,980.

Cyamus (sī'a-mus), a genus of plans, producing an image with white which are parasites on the whale. They paper is made by brushing it over with a are called Whale-lice. oz.); it is then exposed under the positive are low-growing, herbaceous plants, with and treated with a solution of potassium very handsome flowers. Several of them ferricyanide, by which the image is developed. The color of the ground is deepened plants. An autumnal-flowered species by subsequent washing with solution of potassium bisulphate.

Cyathea (si-ath'e-a), a genus of arborescent ferns, order Polypodiaceæ, characterized by having the spores, which are borne on the back the spores, which are borne on the back of the frond, enclosed in a cup-shaped indusium. There are many species scattered over the tropical regions of the world. C. medullāris is a fine New Zealand species of comparatively hardy character. The soft, pulpy medullary substance in the center of the trunk is an article of food, somewhat resembling sago.

Cybele (sib'e-le), originally a goddess of the Phrygians, like Isis, the symbol of the moon, but later introduced among the Greeks and Romans. Her among the Greeks and Romans. Her worship was celebrated with a violent noise of instruments and rambling through fields and woods, and her priests were eunuchs in memory of Atys. (See Atys.) In later times she was represented as a matron, with a mural crown on her head, in reference to the improved condition of men arising from agriculture and their union into cities.

Cyclengic (C. hederæfolium) has become naturalized in parts of the south of England. The fleshy root-stalks, though acrid, are greedily sought after by swine; hence (Si'kl; Gr. cyclos or kuklos, a circle) is used for every uniformly returning succession of the same of veers rests all chronology particularly.

ands in the Grecian Archipelago now belonging to the kingdom of Greece, so named from lying round the sacred island of Delos in a circle (Gr. cyclos or kuklos). The largest islands of the group are Andros, Paros, Myconos, Tenos, Naxos, Melos and Thera and Ceos. They are of volcanic formation and generally mountainous. Some are very fertile, producing wine, olive oil and silk; others almost sterile. The inhabitants are excellent sailors. Area 1041 sq. miles.

See Gyclic Poets (si'klik). See Gyclic Poets (Literature).

Cycling (si'kling), the art of locomotion by means of a machine consisting usually of two, but sometimes of three or four wheels, connected by a light framework of steel and having a seat on two cranks attached to an axle. To cellent sailors. Area 1041 sq. miles.



Cyclamen (garden variety).

condition of men arising from agriculture and their union into cities.

Cycadaceæ (si-ca-dâ'se-ē), or Cycads, of years rests all chronology, particularly of gymnospermous plants, resembling palms in their general appearance, and, as a rule, increasing by a single terminal bud. The leaves are large and pinnate, and usually rolled up when in bud like a crozier. The microscopical structure of their cones ally them with the conifers. The plants of this order inhabit Indian, Australia, Cape of Good Hope and tropical America. Many are fossil.

Cycas (si'kas), a genus of plants, type of the Cycadaceæ.

Cyclades (sik'la-dez), or Kyelades, and in the Grecian Archipelago now belonging to the kingdom of Greece, so named from lying round the sacred island of Delos in a circle (Gr. cyclos

Cyclamen (sik'la-men), a genus of rate of twenty miles an hour has been abulbous plants, nat. order tained both by bicyclists and tricyclists. Primulaces, or primroses. The species The most remarkable example of what can

be done by a skilled cyclist is the journey can be made to record and locate every of 12,000 miles performed by Mr. Thomas inequality in the roadbed of a railroad. Stevens across the continents of America, Europe and Asia on a bicycle. Commencing in April, 1884, he crossed rangement of Agassiz, having smooth, first America, then Europe, then Asia, round, or oval scales, as the salmon and finishing at Yokohama in Japan in December of the same year. Motor cycles, centric layers, not covered with enamel moved by gasoline engines, have come into and not spinous on the margins; they common use. The bicycle and the motor are are applied to the first and the margins in they are a second to the same are a second to the margins; they common use. The bicycle and the motorcycle are employed in military and police service. See Bicycle and Tricycle.

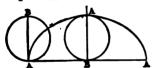
Cyclobranchiata (si'klō-brang-ki-a'-ta), an order of gasteropods in which the branchise or or-

of the common cycloid may be conceived and the progression of the center, the by imagining a nail in the circumference of a carriage-wheel; the curves which the hemisphere is greater on the northern of a carriage-wheel; the curves which the hemisphere is greater on the south of nail describes while the wheel runs forthe line of progression and smaller on ward are cycloids. The cycloid is the north than it would if the center curve of swiftest descent; that is, a heavy were stationary, the case being reversed body descending by the force of its own gravity will move from one point of this cyclone is a storm of opposite character, curve to any other point in less time than it will take to move in any other curve which can be drawn between these points. Also, a body falls through any arc of an inverted cycloid in the same and a great fall of the barometer.

Cyclopedia.

Cyclopedia.

Cyclopean Works (si-klo-pē'di-a), See Encyclopedia.



diameter is AB make one revolution upon the straight line ABA, equal in length to its circumference, then the curved line AAA, traced out by that point of the circle which was in contact with the point A in the straight line when the circle began to revolve is called a cycloid. The length of the cycloid is four times the diameter of the generating diagrams.

and not spinous on the margins; they are generally imbricated, but are sometimes placed side by side without overlapping.

Cyclone (si'klon), a circular or rotatory storm or system of winds, varying from 600 to 3000 miles in diamgasteropods in which the branchise or organs of respiration form a fringe around
the body of the animal, between the
vances at a rate that may be as high as
edge of the body and the foot. The order
Cycloid (al'kloid; Gr. cyclos, circle),
the winds tend. Cyclones of greatest
the winds tend. Cyclones of greatest
violence occur within the tropics, and
a curve generated by a point they revolve in opposite directions in the
in the plane of a circle when the circle is two hemispheres—in the southern with,
rolled along a straight line and kept aland in the northern against, the hands
ways in the same plane. The genesis of a watch—in consequence of which,
of the common cycloid may be conceived and the progression of the center, the
by imagining a nail in the circumference strength of the storm in the northern

Cyclopean Works (si-klō'pē-an), in ancient architec-

point A in the straight line when the race of one-eyed giants, the sons of circle began to revolve is called a cycloid. Uranus and Ge (Heaven and Earth), The length of the cycloid is four times slain by Apollo. They were often repretted diameter of the generating circle, and its area three times the area of this Sicily and rearing cattle and sheep. Of circle. This line is very important in the higher branches of mechanics.

Later traditions describe them as the servel. Cyclometer (si-klom'e-ter), an apparants of Vulcan working under Ætna, ratus for measuring and recording the distances traversed by derbolts.—Cyclops is likewise the generic wheeled vehicles and bicycles. It is also used in railroading. It is purely autoorder Branchiopoda, having but one eye, matic, and by an ingenious attachment situated in the middle of its forehead. Cyclostomi (sī-klos'tō-mi), CYCLOS- versa. It is a member of the cornice, TOMATA (sī-klos-tom'a- standing below the abacus or corona. ta), an order of cartilaginous fishes having circular mouths, as the lamprey. Called also Marsipobranchia.

Cyder. See Cider.

Cydnus (sid'nus), a river in Cilicia, rising in the Taurus Mountains, anciently celebrated for the clearness and coolness of its waters.

Cydonia

Cygnus (signus; 'the Swan'), one axes rise from the of Ptolemy's northern conprimary, each of these stellations. Within this constellation is terminating in a flower, while from these secondary axes Way.

Way.

Cylinder (sil'in-der), a geometrical others may arise terminating in the same way, and so on, giving solid body, terminating in two flat, circular surfaces which are equal and parallel. There is a distinction between the first case, the axis—that is, the straight line joining the center of the two opposite bases—must be perpendicular, great migration of the Celts westwards, and it may be regarded as described by and to have driven the Gaelic branch to the revolution of a rectangular parallelogram round one of its longer sides (the Man) and to the north (into the Highaxis); in the second, the axis must form lands of Scotland), while they themselves an angle with the inferior base.—In occupied the southern parts of Britain.

cymnurical Vaulting, in archimost ancient mode of vaulting, ceture, the
most ancient mode of vaulting, ceture, the
a wagon, barrel or tunnel roof. It is a are the artichoke and the cardoon.
plain half-cylinder without either groins
or ribs.

Cyllene (sil-le'ne). a mountain of Southern Greece, 7789 feet high.

Cyma (s I'm a), in architecture, a wavy molding the pro-file of which is made up of a curve of contrary flexure, either concave at top and convex at bottom or In the the reverse. first case it is called a cyma recta; in the second a cyma re-



1, Cyma reeta. 2, Cymareversa.

Cymbals (sim'bals), musical instruments consisting of two basins of brass with a plane periphery, which emit a ringing sound when struck together. They are military instruments, but are now frequently used in orchestras.

Cyme (sim), in botany, a mode of inflorescence in which the principal axis terminates in a flower, and a

from the these secondary axes

parts of Britain.

yundrical Lens (sil-in'drik-al), a lens whose surfaces are cylindrical, instead of spherical, which is usually the case. A convex cylindrical lens brings the image of a source of light to a focus in a line instead of in a point. They are usually plano-cylindrical; that is, cylindrical on one side and flat on the other.

Cylindrical

Cynewulf (kin'e-wulf), an Anglo-Saxon or early English poet, whose name we only know from its being given in runes in the poems attributed to him, viz. Elene ('Helena'), the legend of the discovery of the true cross; Juliana, the story of the martyr of that name; and Crist ('Christ'), a long poem incomplete at the beginning. The name Cynewulf also occurs as the solution of one of the metrical riddles in the Angloof one of the metrical riddles in the Anglo-Saxon collection. Other poems, the Asdreas, the Wanderer, the Seafarer, etc., have been ascribed to him without sufficient cient grounds. Cynewulf probably lived in the first half of the eighth century. From his poems we may gather that he range of hills in Thessaly, memorable for spent the earlier part of his life as a two battles fought there in ancient times. wandering minstrel, devoting the later to The first was in B.C. 364, between the the composition of the religious poems Thebans and Alexander of Pheræ, in

Cynics (sin'iks), a sect of philosophy was a one-sided develor.

Inebans and Alexander of Pheræ, in which Pelopidas was slain; and the second in B.C. 197, in which the last Philip of Macedon was defeated by the Roman of Socrates, at Athens, about 380 B.C.

Cynosure (si-nō-an'ra) Their philosophy was a one-sided development of the Socratic teaching by Antisthenes and his followers, who looked only or the Lesser Bear, containing the North doctrines, and valued the measure on their master's Star. to the severer aspect of their master's doctrines, and valued themselves on their contempt of arts, sciences, riches, and all the social civilization of life. They made virtue to consist in entire self-denial and independence of external circumstances. In time this attitude degenerated into a kind of philosophic saverary and vicilization of the second select of decener and the second select of the select of the second select of the second select of the s agery and neglect of decency, and the Cynics fell into contempt.

able for their extremely minute head and large, elevated thorax. The females are provided with an ovipositor by which they make holes where they deposit their eggs in different parts of plants, thus

genus of plants, nat. order Boraginacese, aquaria. consisting of herbs from the temperate countries. Cypress ous trees. The Cupressus are British plants. The former has a sempervirens, or common European cydisagreeable smell like that from mice, press, is a dark-colored evergreen with and was at one time used as a remedy extremely small leaves, entirely covering

Cynosurus, a genus of grasses. See Dog's-tail Grass.

Cynthius (sin'thi-us), a surname of Apollo, from Mount Cynthus, island of Delos, on which he was born. For the same reason Diana, his sister, is called Cynthia.

Cyperaceæ (si-per-a'se-e), the sedges, a natural order of mono-Cynip (sl'nip), the gallfly, a genus of cotyledonous plants including fully 2000 hymenopterous insects remark-known species. The members of this order are grassy or rush-like plants, generally growing in moist places on the margins of lakes and streams. Their stem is provided with an ovipositor by which gins of lages and streams. Their stem is they make holes where they deposit their a cylindrical or triangular culm with or eggs in different parts of plants, thus without knots; the leaves are sheathing, producing those excrescences which are They are of little or no economical use, known as galls. The gall of commerce with the exception of Cypěrus papyrus, used in manufacturing ink is caused by which furnished the papyrus of Egypt, the Cynips gallæ tinctoriæ piercing a cyperus (sip'er-us), a genus of plants, species of oak which grows in the Lethe Cynips gallæ tinctoriæ piercing a Cyperus (sip'er-us), a genus of plants, species of oak which grows in the Levant. The Cynips rosæ, or bedeguar gall-they are herbs with compressed spikelets fly, produces the hairy excrescences seen of many flowers, found in cold climates, on the rosebush and the sweet-brier. and characterized by the possession of bisexual flowers. Several kinds are cul-See Bedeguar.

Cynocephalus (sI-nō-sef'a-lus), a bisexual flowers. Several kinds are cultivated in cool houses for decorative purposes between the cool houses for decorative purposes.

Cynoglossum (sI-nō-glos'um), natives of swampy districts. U. alterhound's to ngue, a nifolius, the umbrella palm, is useful in several kinds are cultivated in cool houses for decorative purposes; but it is essential that water be freely supplied as the species are mostly natives of swampy districts. U. alterhound's to ngue, a nifolius, the umbrella palm, is useful in

are British plants. disagreeable smell like that from mice, and was at one time used as a remedy in scrofula. There are about fifty other the branches. It has a quadrangular or, species, all coarse plants. where the top branches diminish in length, pyramidal shape. Cypress-trees, though a somewhat somber and gloomy apspecies, all coarse plants.

Cynomorium (si-nō-mō'ri-um), a genus of plants, nat. order Cynomoriacese. C. coccineum, the fungus melitensis of the old herbalists, is a small plant which grows in Sicily, Malta and Gozo, and was valued as an astringent and styptic in dysentery and hemorrhage.

where the top branches diminish in length, where the top branches diminish in length, a present in somewhat somber and gloomy appearance, may be used with great effect in shrubberies and gardens. They are durable, of a reddish color and a pleasant smell. It was used at funerals and as an emblem of mourning by the ancients. Cynosarges (si-nu-sar'jez), in ancient an emblem of mourning by the ancients. Athens, a gymnasium in Among other members of the genus are which Antisthenes, the founder of the Indian cypress (C. glauca); the C. Cynics, taught.

Cynoscephalæ (si-nos-sef'a-le; Greek, and the C. thurifera, or incense-bearing dogs' heads'), a cypress, a native of Mexico; the evergreen American cypress or White Cedar malacopterygious fishes, allied (O. thyoides), etc. The Taxodium dis-Cyprinide, or carps. tichum, or deciduous cypress of the Cyprinus (si-pri'nus), the ca United States and Mexico, is frequently



Cypress (Cupressus sempervirens, var. fastigiala).

Cyprinidæ (si-prin'i-dē), the carps, a family of soft-finned, abdominal fishes, characterized by a small abdominat insies, characterized by a smail mouth, feeble jaws, gill-rays few in number; body covered with scales; and no dorsal adipose in, such as is possessed by the silures and the salmon. The members are the least carnivorous of fishes. They include the carps, barels, tenches, breams, loaches, etc. The type genus is

Cyprinodontidæ (si - prin - o-don'ti- After belonging successively to the de), a family of Phænicians, Greeks, Egypt, Persia and

Cyprinus (si-pri'nus), the carp genus of fishes, type of the family Cyprinidæ (which see).

Cypripendium (si - pri - pē' di-um), lady's slipper, a genus of plants of the nat. order Orchidaceæ. Three species are natives of the United C. arietinum, the ram's-head, is found from Canada to Vermont. One species (C. calceolus) is a native of Britain.

Cypris (sip'ris), a genus of minute fresh-water crustaceans popularly known as waterfleas. They have the body enclosed in a delicate shell and swim by means of cilia. The Cypris is common in stagnant pools, and is very often found in a fossil state.

(si'prus), an island lying to the south of Asia Minor, and Cyprus the most easterly in the Mediterranean. Its greatest length is 145 miles, maximum breadth about 60 miles; area, 3584 sq. miles. The chief features of its surface are two mountain ranges, both stretching called the Virginian cypress. Its sis valuable, and under water is almost the northern shore, and extending unrough imperishable. In parts of the United the long northeastern horn or prolongation of this cypress constitutes forests this cypress constitutes forests in extent. Cyprian (sip'ri-an), Sr., a father of the south of the island, and the African Church, born at rising in Troödos to 6590 feet. Between Carthage about the beginning of the third century, was a teacher of rhetoric there. About 246 he was converted to Christianity, when he distributed his property among the poor, and began to live in government supervision, and the greatest abstinence. The church in Carthage soon chose him presbyter, and in 248 he was made bishop. During the persecutions under Decius and Valerian he had twice to leave Carthage, but continued by his extensive correspondence to barley, cotton, tobacco, olives, raisins and govern the African Church. He was behaded in 258, for having preached the gospel in his gardens at Carthage. Works on doctrine.

Cyprinidæ (si-prin'i-dē), the carps, a family of soft-finned, anciently a source of great wealth. A standard of the siland, the other and more massive (Mount Olympus) occupying a great part of the south of the island, the other and more massive (Mount Olympus) occupying a great part of the south of the island, the other and most of the south of the siland, the other and most of the south of the south of the siland, the offen. The siland, the other and most of the south of the south of the south of the sland, the south of the sland, and great part of the south of the anciently a source of great wealth. A recent attempt to work them has met with failure. Large numbers of sheep and goats are reared on the extensive pasture lands of the island. The principal towns are Lefkosia or Nicosia, the capital, the only considerable inland town, and the seaports Larnaca and Limassol. The chief exports are carobs, wine and cotton, with above the season of the cotton, with a contract of the contract of the cotton. with cheese, raisins, cocoons, wool, etc.

again Egypt, Cyprus in 57 B.C. became a Roman province, and passed as such engaged in the third crusade) on Guy de Lusignan, and after his line was extinct it fell into the hands of the Venetians (1489), with whom it remained till it was conquered by the Turks in 1571 and annexed to the Ottoman Empire. In 1878 it was placed under the control of Great Britain by a transfer which recognized the secondary of treaty which recognized the sovereignty of the Sultan and granted to Turkey a speci-fied subsidy, which, however, was not paid ned subsidy, which, however, was not paid directly but retained as an offset against British claims on the Ottoman Empire. During the European war Cyprus was formally annexed by Britiain (1914).

Cyprus has become very prosperous during recent years. Modern roads, harbor works and schools have been built, and irrigation galerness have sided in the

and irrigation schemes have aided in the development of agricultural industry. The development of agricultural industry. The local council consists of a commissioner and a legislative council of 18 members. The total exports for 1914 amounted to \$2,500,000; imports, \$3,300,000. Pop. (1911), estimated, 275,000, of whom more than three-fourths belong to the Cypriote branch of the Greek Orthodox Church. Cypselus (sfp'se-lus), a genus of birds, type of the family Cypselide, including the swifts and their congeners. One peculiarity in this family

Cypselidæ, including the swifts and their congeners. One peculiarity in this family is that the hind toe is turned forward along with the three anterior toes.

Cyr (sēr), Sr., a French village in the department of the Seine-and-Oise, 1 league west of Versailles; famous for the seminary for the education of ladies of rank which Louis XIV founded here. During the revolution this institution was done away with, and the fine buildings finally converted into a military school by Napoleon (1803). Pop. of the commune, 4253. mune, 4253.

(si-re-nā'i-ka), once a powerful Greek state in Cyrenaica the north of Africa (corresponding partly with the modern Barca), west of Egypt, comprising five cities (Pentapolis), among which was Cyrene, a Spartan colony founded in 631 B.C. In later times colony founded in 631 B.C. In later times it came into the hands of the Ptolemies, and in B.C. 95 the Romans obtained it. The Arab invasion ruined it (647). Cyrenaica is at present a vast but as yet very imperfectly explored field of antiquities.

Cyrenaics (si-re-nā'iks), a philosophical sect founded about 380 B.C. by Aristippus, a native of Cyrene Slav. and a pupil of Socrates. See Aristippus. litic.

Cyrene (si-re'ne), in ancient times a celebrated city in Africa, about 10 miles from the north coast, to the eastern division of the empire, about 10 miles from the north coast, In 1191 it was bestowed by Richard of founded by Battus and a body of Dorian England (who had conquered it when colonists, B.C. 631. Numerous interesting engaged in the third crusade) on Guy remains have been discovered here. The town now occupying the site of the ancient Cyrene is a miserable place in the vilayet of Barca. See Cyrenaica.

Cyril (sir'il), the name of three saints or fathers of the Christian church.

1. CYRIL OF JERUSALEM, born there about the year 315 A.D., was ordained presbyter in 345, and in 350 or 351 became Patriarch of Jerusalem. He engaged in a warm controversy with Acacius, the Arian Bishop of Cæsarea, by whose artifices he was more than once deposed from his episcopal dignity. He died in 386 or 388. We have some writ-

died in 386 or 388. We are ings composed by him.

2. CYRIL OF ALEXANDRIA was educated by his uncle Theophilus, Patriarch of the company of th Alexandria, and in 412 A.D. succeeded him as patriarch. In this position his ambitious spirit brought the Christians into violent quarrels. At the head of the populace he assailed the Jews, destroyed their houses and their furniture, and drove them out of the city. Orestes, the pre-fect, having complained of such violence, was attacked by 500 furious monks. The assassination of Hypatia, the learned lecturer on geometry and philosophy, took place, it is said, at the instigation of Cyril. His quarrel with Nestorius, and with John, Patriarch of Antioch, regarding the twofold nature of Christ, con-vulsed the church, and much blood was shed between the rival factions at the Council of Ephesus in 431, the emperor having at last to send troops to disperse them.

at last to send troops to disperse them. Cyril closed his restless career in 444.

3. St. Cyril, 'the Apostle of the Slavs,' a native of Thessalonica. He converted the Chazars, a people of Hunnish stock, and the Bulgarians, about A.D. 860. He died about 868. He was the inventor of the Cyrillian Letters which took their name from him, and is probably the author of the Apologies. probably the author of the Apologies which bear his name.

Cyrillian Letters (si-ril'i-an), characters used in one of the modes of writing the Slavonic language. In Poland, Bohemia and Lusalanguage. In Poland, Bohemia and Lusatia, Roman or German letters are used; but among Russians, Bulgars, and all the Slavonic nations belonging to the Greek Church, the Cyrillic alphabet, a modification of the Greek one, is in use. Besides these there is the Glagolitic alphabet, in which the older literature of the bet, in which the oldest literature of the Slavonic church is written. See GlagoCyrus (si'rus), King of Persia, a celebrated conqueror. The only ancient original authorities for the facts of his life are Herodotus and Ctesias. According to Herodotus, he was the son of Cambyses, a distinguished Persian, and of Mandane, daughter of the Median and of Mandane, daughter of the Median King Astyages. His grandfather, made apprehensive by a prophecy that his grandson was to dethrone him, gave orders that Cyrus should be destroyed after his birth. But the boy was preserved by the kindness of a herdsman, and at least both sont to his perents in arter his barners and at length sent to his parents in Persia. Here Cyrus soon gathered a formidable army, conquered his grand Leguminose, suborder father (B.C. 559), and thus became king of Media and Persia. In 546 he conmembers of the genus of Lydia, and two years are shrubs or small of Media and Persia. In 040 ne con members of small quered Crœsus of Lydia, and two years are shrubs or small later took Babylon. He also subdued trees, sometimes spiny, with leaves composed the condition of Palestine, and restored the with leaves composed to the condition of t Jews from their Babylonish captivity of three leaflets, and He was slain in battle with a Scythian with yellow, purple or nation in B.C. 529. Such is the account white flowers. They given by Herodotus; but the narrative of belong to Europe, Ctesias differs in not making Cyrus a Asia and North Afrelative of Astrages and in some other rica, and are very ornapoints. The Cyropædia of Xenophon, mental plants. The which professes to give an account of best-known species is the early life of Cyrus, is merely a the common laburnum Brown (Cyrisus Scatter of Cyrisus Scatter of C

cyrus, called the Younger, to discharge in the laburnum; see pariss).

Laburnum; see pariss).

Laburnum; see pariss).

Laburnum; see pariss).

Laburnum (C. Alpinus). The comfounder of the Medo-Persian monarchy, mon broom (C. Scoparius) also belongs was the second son of Darius Nothus or to this genus. See Broom. was the second son of Darius Nothus or to this genus. See Broom.

Ochus. Having formed a conspiracy against his elder brother, Artaxerxes

Minomon, Cyrus was condemned to death, but released at the request of his mother, island, and the site of an ancient town of Parysatis, and made governor of Asia Minor. Here he secretly gathered an army, an important part of which consisted of 13,000 Greek auxiliaries, and the rulers of Russia before the revolution marched eastwards. His brother with a (see Russia), not improbably a corruplarse army met him in the plains of the Roman title Cesar. It was marched eastwards. His brother with a large army met him in the plains of Cunaxa (B.C. 401), and in the battle which followed, although the troops of Cyrus were victorious, Cyrus himself was slain. The retreat of the Greek auxiliaries of Cyrus from the interior of Persia to the coast of Asia Minor is the subject of Xenophon's Anabasis.

Cysticerous (sis-ti-ser'kus) arm importance of Russia before the revolution (see Russia), not improbably a corruption of the Roman title Cæsar. It was first adopted in 1547 by Ivan the Terrible. The wife of the Czar was called Czarina or Czaritza. The heir-apparent and his wife were known as the Czarowitz (Cesariaries of Cyrus from the interior of evitch) and the Czarowitz (Cesariaries of Xenophon's Anabasis.

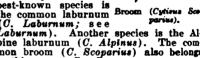
Czartorvski (char-to-ris'kā).

worm found in certain animals.

Cystopteris (sis - top'ter - us), the bladder-fern, a genus of polypodiaceous, delicate, flaccid ferns. Cystotomy (sis-tot'o-mi), in surcutting into the bladder for the extraction of a calculus or other purpose. Cythera (si-thē'ra). See Cerigo.

Cytisine (sit'i-sin), an alkaloid detected in the ripe seeds of the Laburnum. It is of a nauseous taste,

Cytisus (sit'i-sus), a genus of plants belonging to the nat. order



Cysticerous (sis-ti-ser'kus), an immature form of tapebrated Polish statesman and patriot, born in 1770. His education was completed worm found in certain animals.

Cystic Worm (sis'tik), an immature or half-developed form of tapeworm, once erroneously supposed to be a distinct species of intestinal worm.

Cystideæ (sis-tid'e-ê), a family of fossil echinoderms, with feebly developed arms, occurring in the Silurian and Carboniferous strata.

Cystitis (sis-tid'u-e), inflammation of the bladder;

born in 1770. His education was completed at the University of Edinburgh and in London. He fought bravely under country in 1795 was sent to St. Petersburgh with Prince Alexander, and was made minister of foreign affairs. In 1805 be resigned his office, and withdrew soon after from public affairs. On the outbreak of the Polish revolution in 1830 he



Czirknitz

took an active part and became the head Budapest, in a district yielding of the national government. After the wine. Pop. 30,166, failure he lived at Paris. He died in Czenstochowa (chen-sto-hō'va), a town in Russian

family of races. The Czechs have their of Bukowina, 150 miles S. E. of Lemberg. headquarters in Bohemia, where they It has manufactures of clocks, silver-arrived in the fifth century. (See Bo-plate, carriages, toys, etc. Pop. (in-hemia.) The origin of the name is unknown. The total number of the proportion being Jews. Czechs (including Moravians, Slovaks, etc.) is about 6,000,000, nearly all of whom live in the Austrian Empire. They speak a Slavonic dialect of great antiquity and of high scientific cultivation. The Czech language is distinguished as Czerny of Servia, born in the neighborhood of Belgrade about 1770; beheaded by the Turks, in Italian, the was called Czerny or Kara George, i. e., Black George. In 1801 he organized an insurforming derivatives, frequentatives, inceptives and diminutives of all kinds. Turks, took Belgrade, and forced the Like the Greek, it has a dual number, and Porte to recognize him as Hospodar of its manifold declensions, tenses and participial formations, with their subtle shades of distinction, give the language a complex grammatical structure. The alphabet consists of forty-two letters, expressing a great variety of sounds. In musical value the Czech comes next to Italian.

Czechs Hospodar of Bukonski, 69,619, a considerable proportion being Jews.

Czerny (cher'ni), Gronge, thospodar of Servia, born in the neighborhood of Belgrade about 1770; beheaded by the Turks, in July, 1817. His true name was George Petrovitch, but he was called Czerny or Kara George, c. e., Black George. In 1801 he organized an insurfection of his countrymen against the rection of his countrymen against the Porte to recognize him as Hospodar of Servia. In 1813, however, he had to retire before a superior force, and took refused in Austria. Returning to his country in 1817, he was taken and put to death.

Czerny (cher'ni), Kari, pianist and musical value the Czech comes next to proportion being Jews.

Czerny (cher'ni), Gronge, the proportion being Jews.

Czerny (cher'ni), Gronge, the proportion being Jews.

(tseg'lād), a market town, guished musicians. Hungary, 39 miles s. z. of Czirkn#z. See Zirknits. Czegled

Czaslau (chas'lou), a town of Bohemia, 45 miles E. S. E. of is here a convent containing a famous Prague. Here Frederick the Great defeated the Austrians (1742). Pop. 9105. vast numbers of pilgrims. Pop. 53,650. Czechs (chehs), the most westerly branch of the great Slavonic family of races. The Czechs have their of Bukowina, 138 miles S. E. of Lemberg. headquarters in Bohemia, where they It has manufactures of clocks, silver-arrived in the fifth century. (See Bonlate, carriages, toys, etc. Pop. (in-

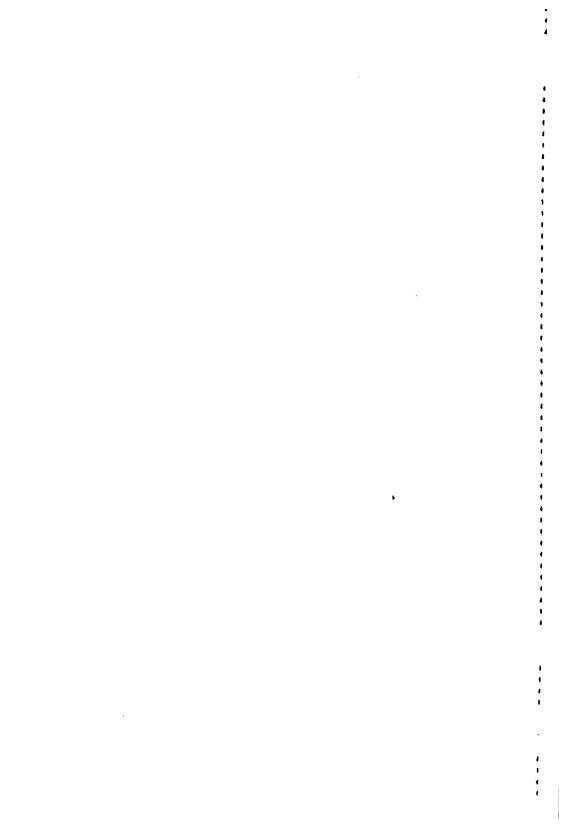
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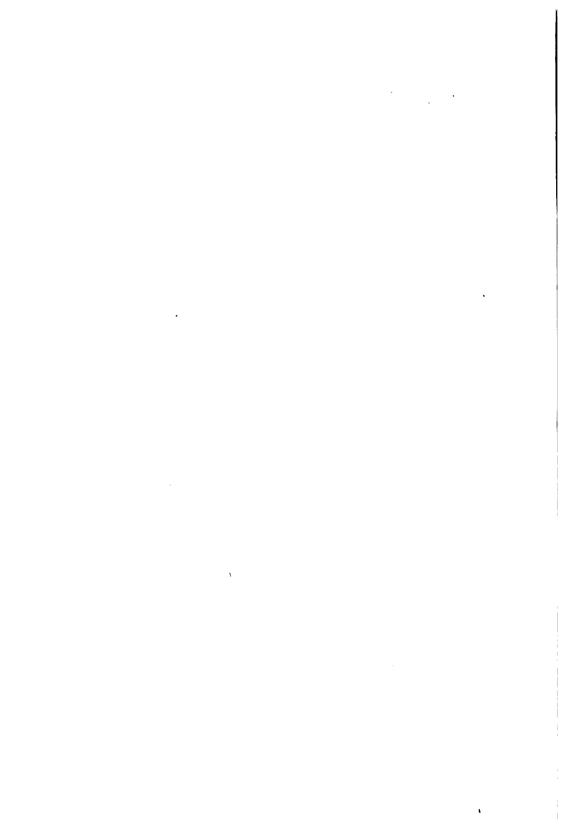


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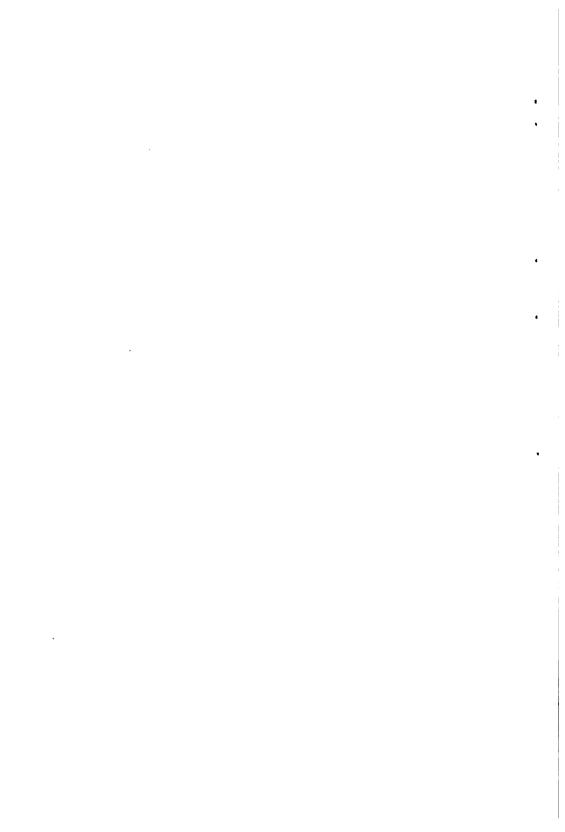
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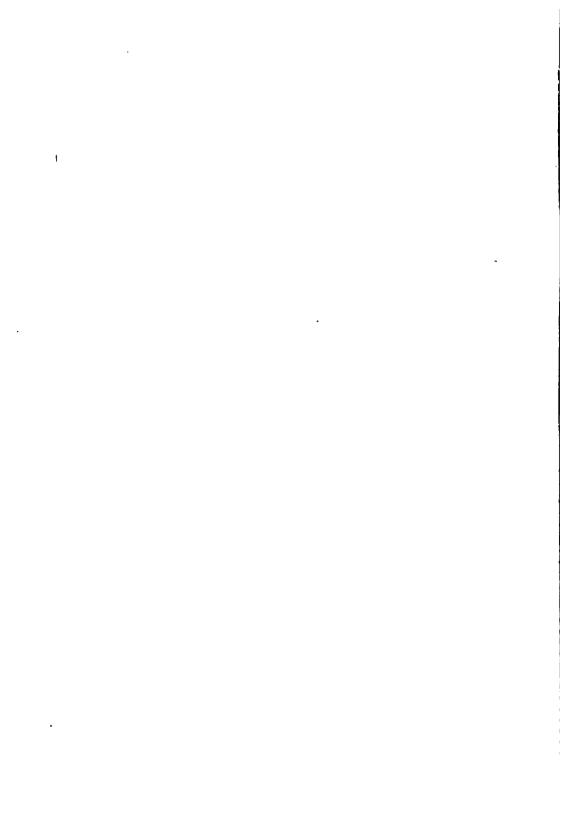




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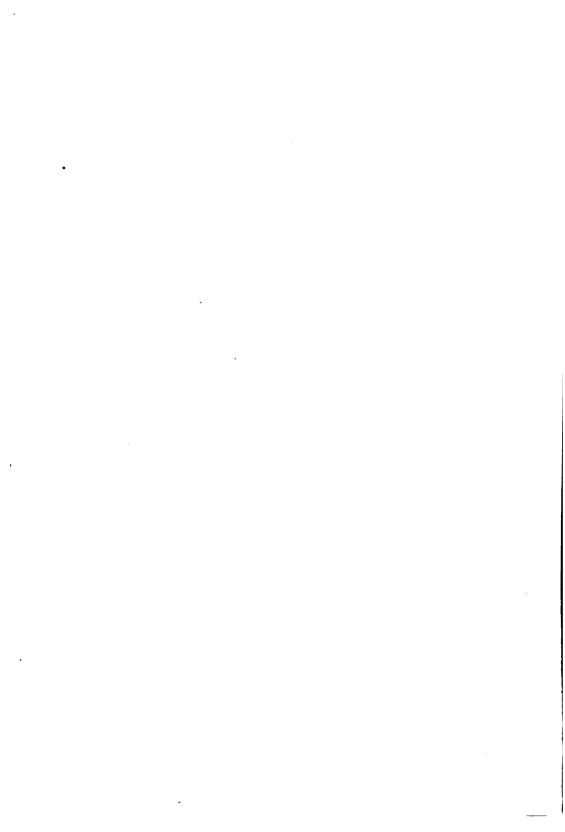


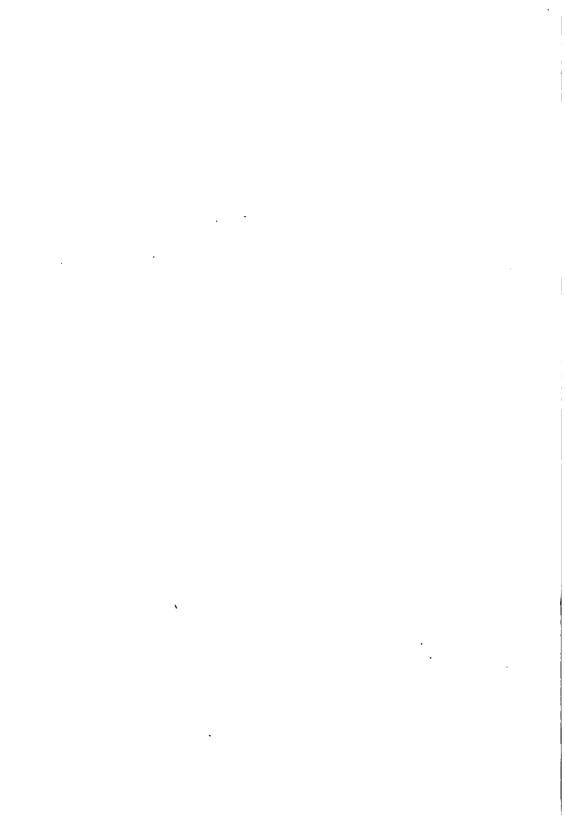


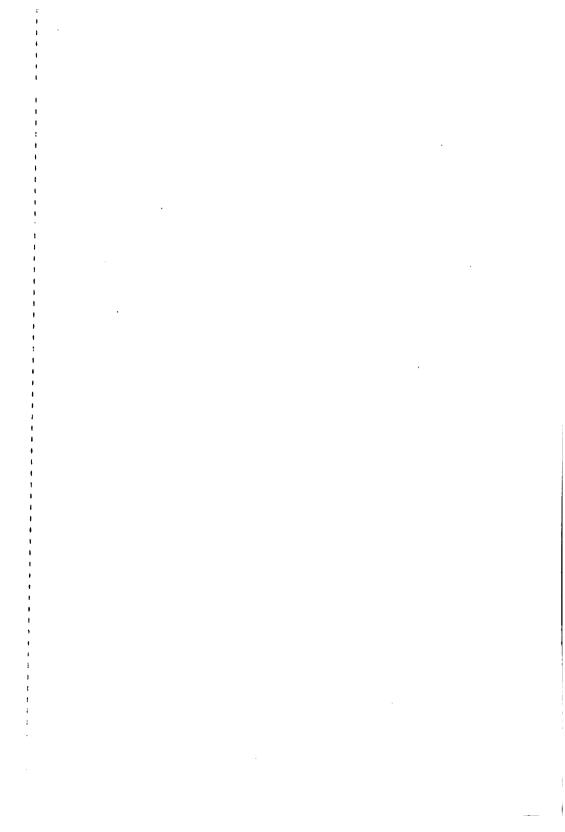


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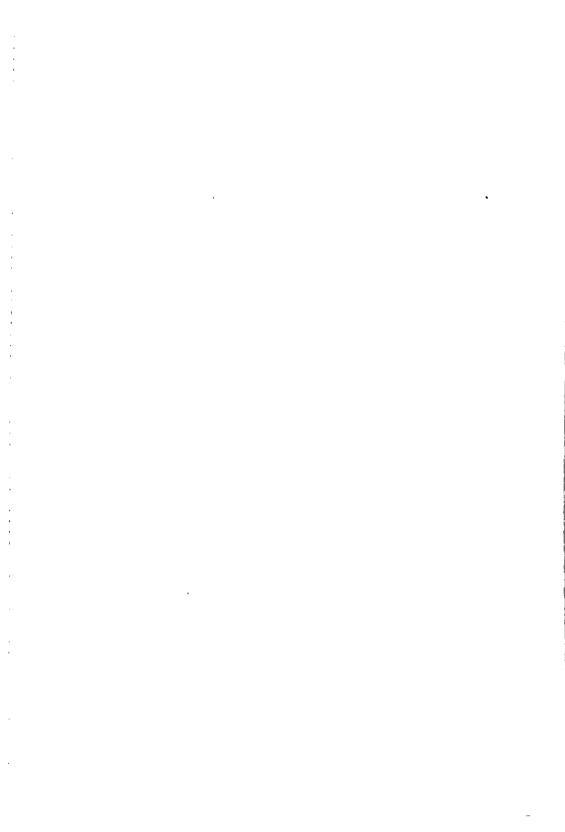


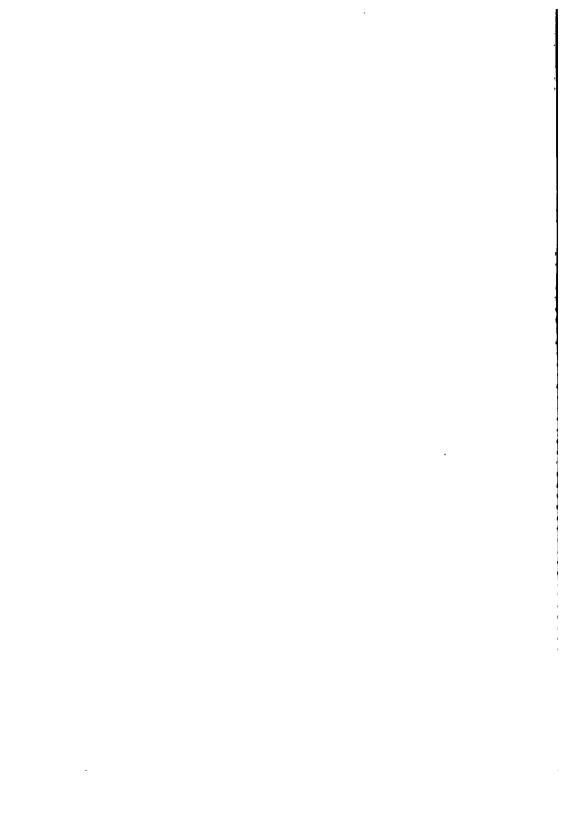


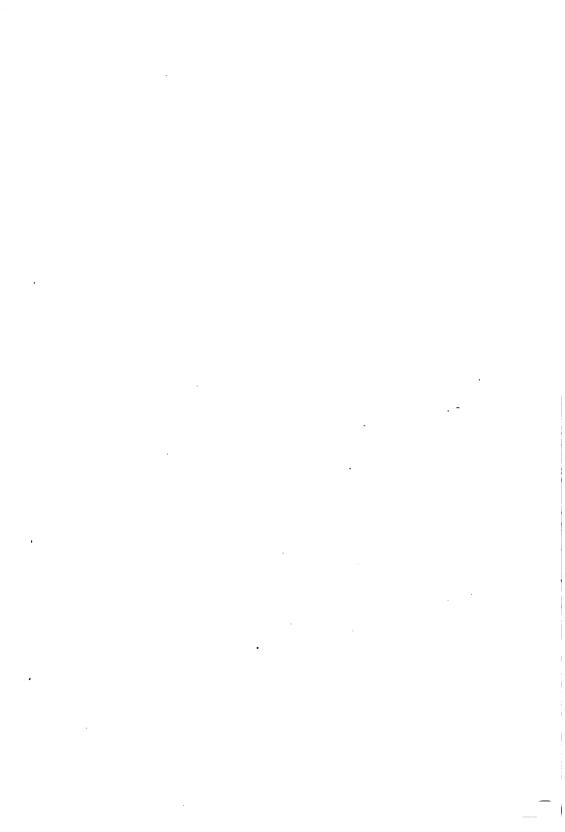


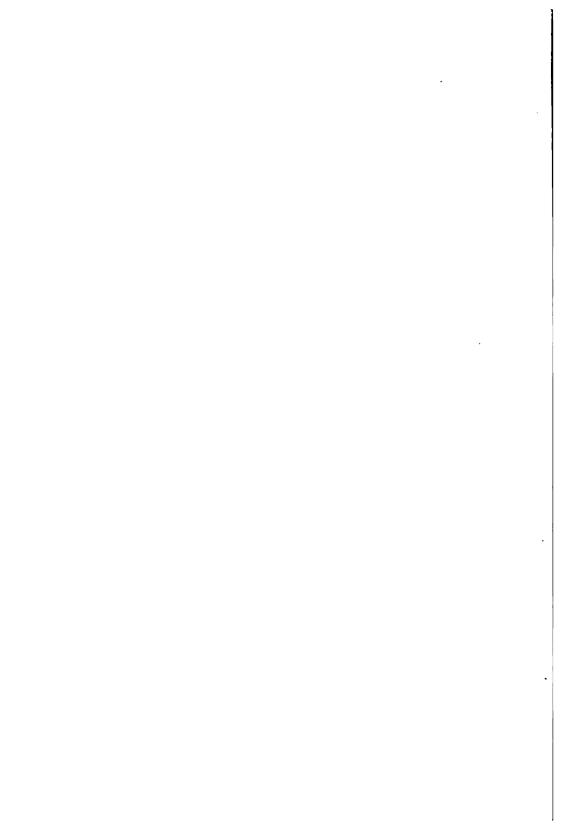




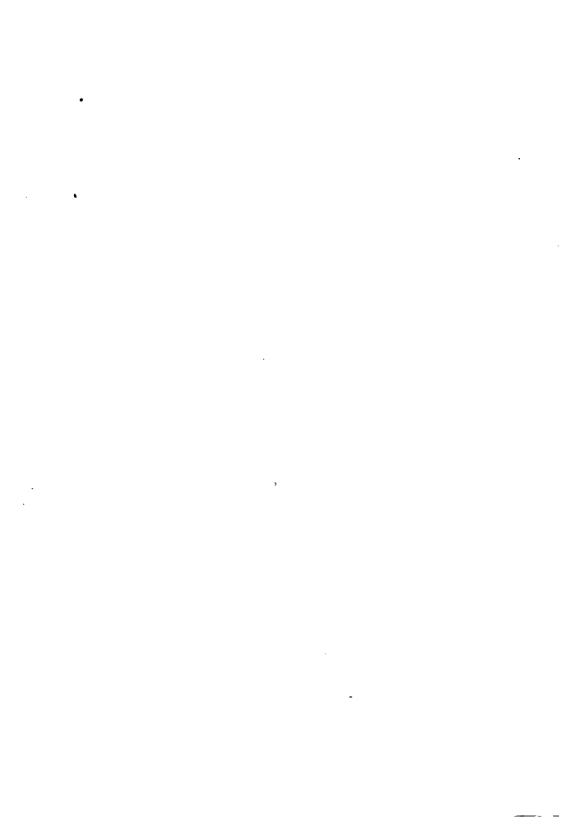


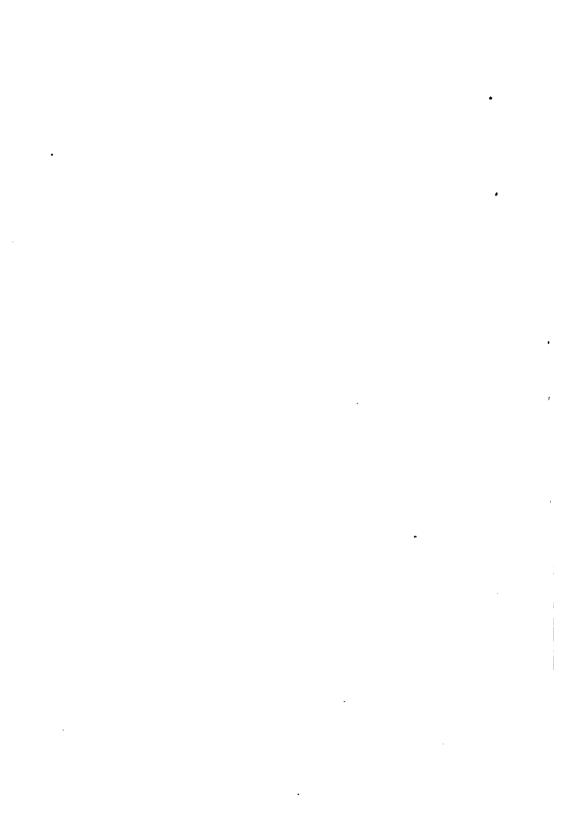








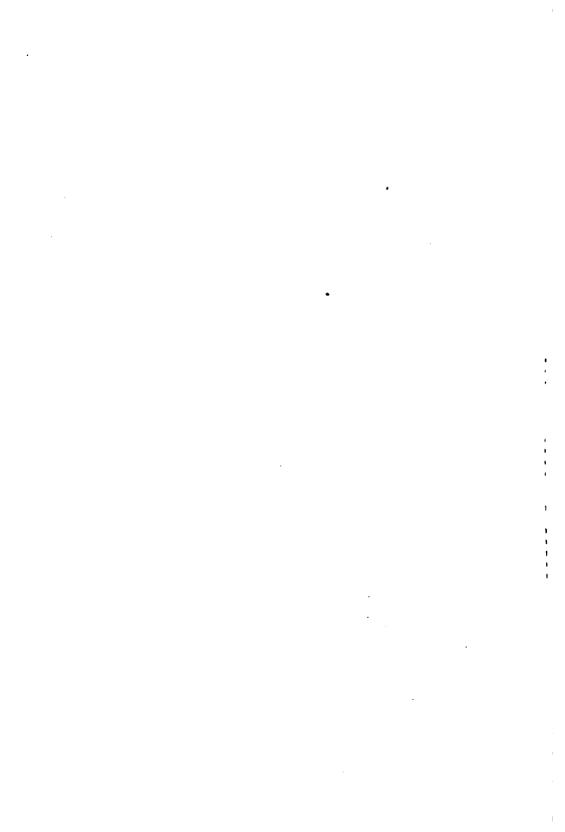




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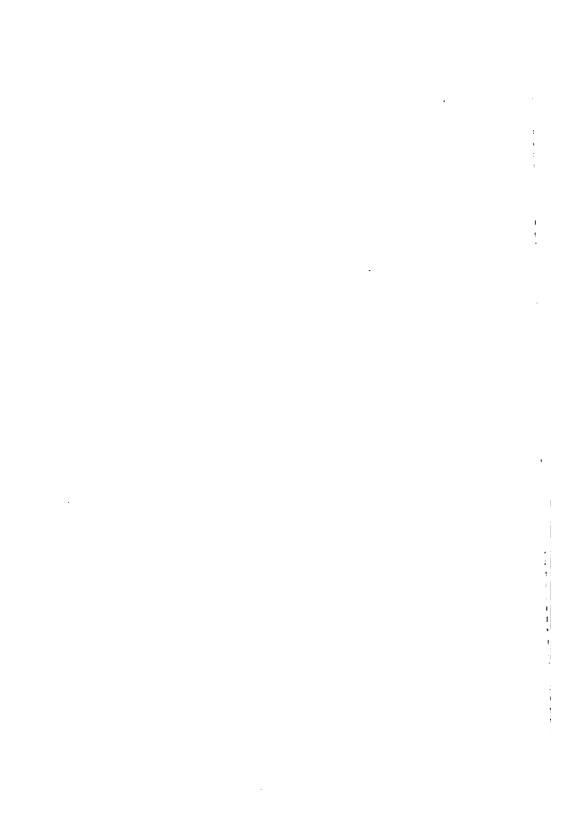








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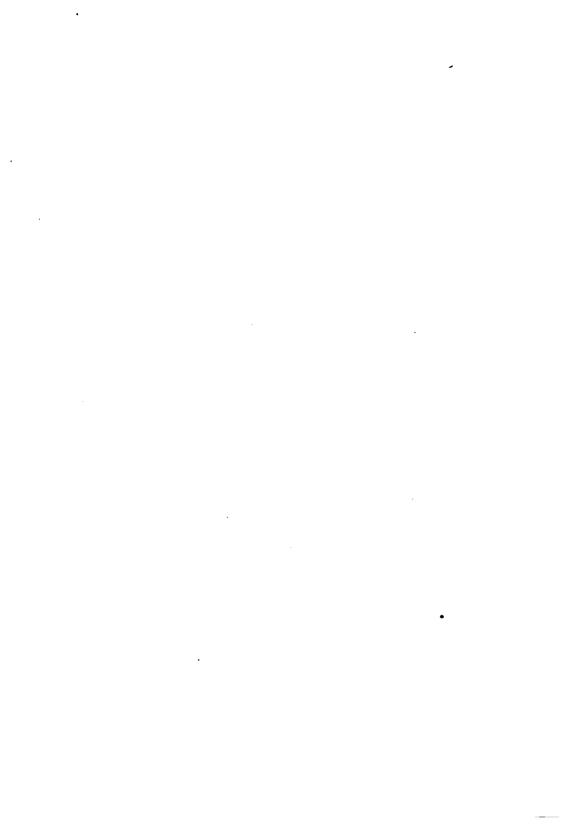


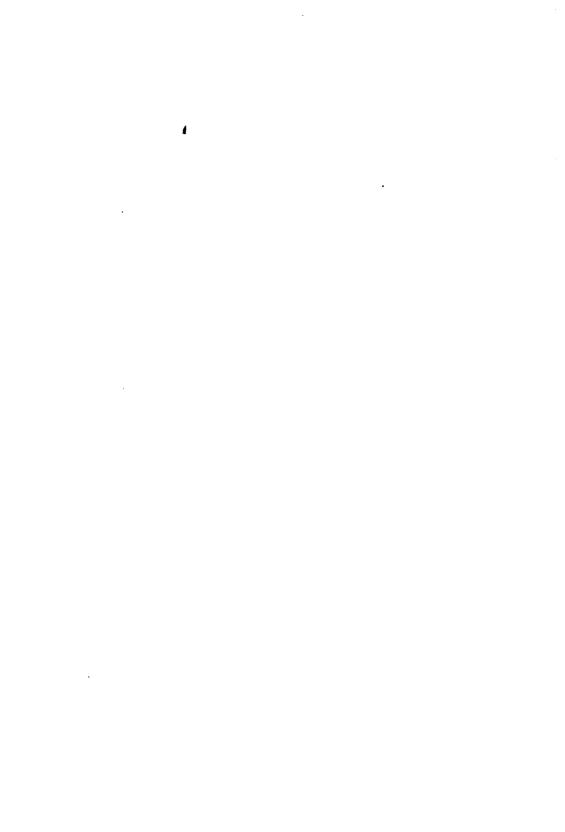
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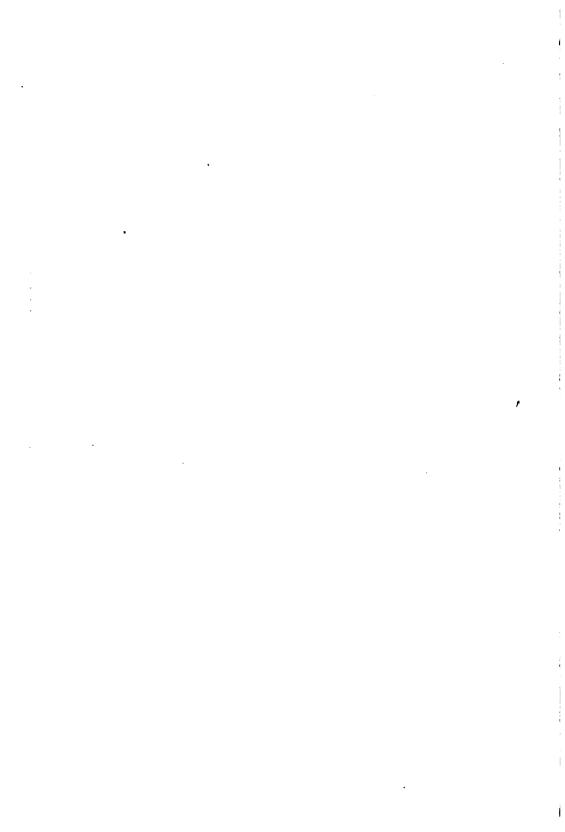
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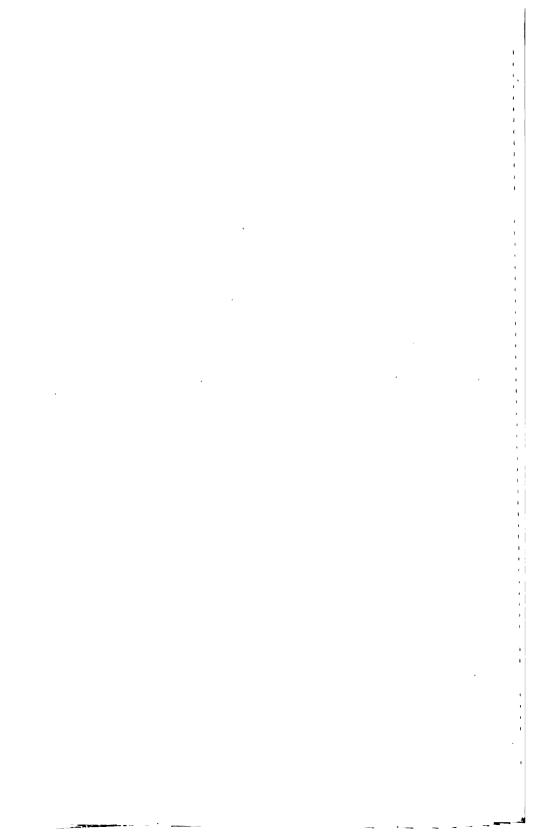












D, the fourth letter in our alphabet, representing a dental sound formed by placing the tip of the tongue against the root of the upper teeth, and then forcing up vocalized breath, or voice, into the mouth, the soft palate being raised to prevent its escape through the nose. is formed in the same way, except that it is uttered with breath merely and not with voice. As a numeral D represents 500.

Dab (Pleuronectes limanda), a fish belonging to the family of the Pleuronectide, or flat-fishes, comprising



Dab (Pleuronectes limanda).

a pale-brownish color spotted with white on the side which it usually keeps uppermost, and white on the underside, and has rougher scales than the other members of the same genus. It is preferred to the flounder for the table.

Dabchick (dab'chik). See Grebe.

Da Capo (da ka'po: Italian, 'from so called on account of its harsh, disturbed or beginning'), in cordant note.

music, an expression written at the end Dachshund (daks'hunt). See Badger

music, an expression written at the end of a movement to acquaint the performer that he is to return to the beginning, and end where the word fine is placed.

Dacca (dak'ka), a commissioner's marked by the Daci or Getæ, afterdivision of Hindustan in Bengal, at the head of the Bay of Bengal; area, 15,000 square miles. It is one of the richest districts in India, and produces such quantities of rice as to be called the granary of Bengal. The surface is an uninterrupted flat, and is intersected by the Ganges and Brahmapootra—from whose periodical inundations are produced by the contact of the company of the produced by the granary of Bengal. The surface is an uninterrupted flat, and is intersected by the Ganges and Brahmapootra—from whose periodical inundation to Paris, where the Duke of Montausier mapootra—from whose periodical inunda- to Paris, where the Duke of Montausier

tions its extraordinary fertility arises. Dacca was at one time celebrated for its hand-woven muslins, which are still hardly to be equaled in their combina-tion of durability and delicacy; but this branch of industry has considerably decayed. Pop. 10,807,825, Mohammedans being in a decided majority.—Dacca, its capital, is about 150 miles northeast of Calcutta. The city has much decayed with the decrease of its staple trade in the celebrated Dacca muslin; suburbs which once extended northwards for 15 miles are now buried in dense jungle. Dacca, being free from violent heats, is one of the healthiest and most pleasant stations also the soles, turbots, hallous, plant and flounder, the last two being included in the same genus with the dab. It is of Dace (das, Leuciscus vulgāris), a mail river fish of the family and resembling the roach, but

Cyprinidæ, and resembling the roach, but longer and thinner. It is a gregarious



Dace (Leuciscus vulgāris).

fish, swimming in shoals and inhabiting chiefly deep, clear streams with a gentle current. It seldom exceeds a pound in weight.

Dacelo (da-sē'lō), an Australian genus of kingfishers, one species of which is the 'laughing jackass,'

entrusted him with the editing of the Latin writer Pompeius Festus as usum and was drowned in the Icarian Sea.

Delphini (see Delphin Classico). In Daffodil (daf'ō-dil), the popular name of a European plant which daughter of his former teacher, afterwards became perpetual secretary of the secame perpetual secretary of the earliest ornaments of our gardens, being a favorite object of cultifrench Academy, published many editions wation. Botanically it is Narcissus pseudoand translations of the ancient classics, narcissus, order Amaryllidaces. Many and died in 1722.—His wife, Anne, born in 1651, published an edition of Callimachus, and was entrusted with several form of the flower, which is of a bright primose-yellow color. There are other Her learned works were not interrupted forms of the name in local or partial use.

Dagger (dag'er), a weapon resembling a short sword, with sharp-nointed blade. In single combat it was of Homer and writings on Homeric poetry a short sword, with sharp-attracted a good deal of attention. Among her other works were translations of Terence, Plautus, two plays of Aristophanes, Anacreon and Sappho. She died in 1720.

Dacoity (da-koi'ti), originally in the Caucisty criminal code of India a casus, stretching along the west side of casus.

yew family.

Dacryoma (da-kri-5'ma), a disease of the lachrymal duct of the eye, by which the tears are prevented from passing into the nose and con-

bactyl (dak'til), in versification, a foot consisting of one long followed by two short syllables, or, in English, one accented and two unaccented, as happily.

Dactylology (dac-til-ol'o-ji), is the art of communicating ideas or conversing by means of the fingers. It is of great value to the deaf and dumb. See Deaf and Dumb.

Daddy-long-legs, a name given to species of the crane-fly (Tipula oleracea). See Crane-

Dado (da'dō), in classical architecture, the middle part of a pedestal. that is to say, the solid rectangular part between the plinth and the cornice; also called the die. In the interior of houses it is applied to a skirting of wood several feet high round the lower part of the walls, or an imitation of this by paper or painting.

Declaims (de'da-lus), a mythical Greek sculptor, the scene of most application is usually restricted to monu-

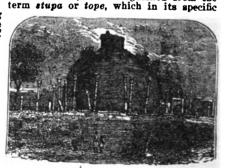
Dacoity (da-koi'ti), originally in the casus, stretching along the west side of robbery committed by an armed band or the Caspian Sea; area, 11,036 square gang, and technically under the present miles. Its fertile and tolerably cultivated or more persons take a part. The term has also been applied more widely.

Dacrydium (da-krid'i-um), a genus of trees of the pine or the Caspian Sea; area, 11,036 square walleys produce good crops of grain, and or more persons take a part. The term has also been applied more widely.

Dacrydium (da-krid'i-um), a genus medans, consist chiefly of races of Tartar origin and of Circassians. Capital Derbend. Pop. 605,100.

most all Swedes, number about 14,000.

Dagoba (da-gō'ba), in Buddhist countries and those which at one time held the Buddhist faith, a solid structure erected to contain some sacred relic or relics, as distinguished from the



Ceylonese Dagoba.

of whose labors is placed in Crete. He is ments which commemorate some event or said to have lived three generations before mark some spot sacred to the followers of the Trojan war. He is credited with Buddha. Dagobas are built of brick or building the famous labyrinth in Crete, stone, are circular in form, generally with and inventing wings for flight, which a dome-shaped top, and are erected on

natural or artificial mounds, while the stone or brick structure itself sometimes rises to an immense height. These of travelers. It varies considerably in dagobas have always been held in the size; has one or two masts, with a very highest veneration by the Buddhists, and long slanting yard on each mast support-a common mode of testifying their venerating a triangular sail, and accommodates tion is to walk round them, repeating from two to eight passengers. prayers the while.

After a successful, magnificent, but licentious reign, he died at Epinay in

other processes, but the chemical principle is the same.

D'Aguesseau. See Aguesseau.

Dagupan (da-g 5'pan), a town of Luzon, Philippine Islands, on the railroad from and about 130 miles n. w. of Manila. It was one of the strongholds of the Philippine insurgents, and was taken from them in November, The Kings of the Germans, The Migra-1899, by the American troops after a sharp skirmish. Pop. (1903) 20,357.

prayers the while.

Dagobert I (dag'o-bert; called the Dahlgren, admiral, born in Philamilitary successes), King of the Franks, father's side he was of Swedish descent, father a successful, magnificent, but licentious reign, he died at Epinay in adelphia. In 1826 he entered the navy as in 628 successed, magnificent, but licentions reign, he died at Epinay in 638.

Dagon (da'gon; probably from the 200 (da'gon; probably from the 201 (da'gon; probable from the 201 (da'gon

and distinguished himself as an advocate of liberal measures in politics. Among his principal works is a history of the

the philosophy of law poems, novels, ing on the farm, which should be carefully plays, etc.

Dahomey (dä-hō'me), a former negro kingdom of West Africa with an area of about 58,000 sq. miles and a coast line of 70 miles. It lies between German Togoland on the w. and between German Togoland on the w. and British possessions on the E. and extends to the Niger River on the N. The Dahomans are all pagans and the former king was an absolute tyrant, whose army was partly made up of Amazons, while wholesale human sacrifices formed part of the state ceremonies. The last king, whose capital was Abomey, was deposed by the French in 1900, and the country is now under French rule. under French rule.

under French rule.

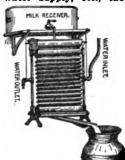
Daimiel (di-me-el'), a town of Spain, New Castile, province of Ciudad Real, and 20 miles E. N. E. of the town of Ciudad Real, on left bank of the Asuer. The manufactures are linen and woolen fabrics, etc. Pop. 11,825.

Daimios (dl'mi-ōz), a class of feudal lords formerly existing in Japan, but now deprived of their privileges and invisidiction. By decree of

Japan, but now deprived of their privileges and jurisdiction. By decree of August, 1871, the daimios were made official governors on a salary for the state in the districts which they had previously held as feudal rulers.

Dairen (di'ren), or Tairen, a city and seaport of Manchuria, situated on the Liao-tung Peninsula and on the Ta-lien-wan Bay in the Yellow Sea, 25 miles N. of Port Arthur. This city, originally named Dalny, was built by order of the Czar of Russia, for a commercial scaport, on the concession leased from China in 1898, and was thrown open as a port, free to the commerce of all nations December 1, 1901. It was divided into administrative, wholesale, retail and residential sections, the principal official buildings being erected and the streets laid out before opening. A fine town, with handsome buildings and all modern improvements, soon sprang up. The harbor, one of the best and deepest of the Pacific, free of ice the year round, was provided with breakwaters, great stone piers and large docks, including two dry docks. The town formed one of the eastern termini of the Trans-Siberian Railway, and was provided with elevators, gas and electric lighting, etc. The city was occupied by Japanese troops in 1904, during the Russo-Japanese war, and re-tained by Japan after the war. They re-named it Dairen, and it is now a place of much commercial importance. Pop. about 50,000.

chosen for location, fertility, abundant water supply, etc., the selection of the



Milk Cooler and Aerator

cows for the dairy herd is the consideration next in im-portance. The breeds mainly selected in the United States for their milk and butter-fat producing qualities are the Guernsey, Jer-sey, Holstein, Jersey, Holstein, Ayrshire and shorthorn. The heaviest milk yielders, 88

general rule, are the Holstein, but their milk is lower in percentage of butter-fat than that of the other breeds mentioned.

The cow stable should be planned so that the work of caring for the herd can be conducted with all possible economy of time and labor. Overhead mechanical devices should be installed where practicable, to facilitate handling and distributing the fodder and the removal of the manure. Sanitary principles of con-struction in the building should be given careful attention. An abundance of light and air is a primal requisite. The floor should be of concrete, both by reason of its durability and the ease and thorough-ness with which it can be cleaned. The milk should be produced and han-dled under conditions of the utmost clean-

liness. The stables should be kept thoroughly clean, and the milk, after being drawn from the cow, should at once be taken from the stable in which the milking is done to a separate room or building where it should be strained and cooled. Various devices for cooling and aerating milk have been invented. One of the most commonly used is shown in the ac-

companying illustration. Milch cows should receive a daily grooming similar to that given horses, and the udders should be brushed and wiped off just before milking. If the milking is done by hand, the milker should take pains to be clean about his person, should wash his hands and wear clean outer garments which should not be worn at any other task than milking, and when not in use should be hung in a clean place. Milking should be done with dry hands. Dairy (da'ri), the department of a "Wet" milking is an extremely uncleanly farm which is concerned with practice. In large operations the electric the production of milk. After determining machine is extensively employed.



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Dais Dalhousie

A picture of one form of it and of the Dalai Lama (da-11 la'ma). manner in which it is applied to the cow's manner in which it is applied to the cow's udder is shown on the opposite page. The milking machine is a practical milker, working by air pressure through a pulsaland, with large granite-polishing works, tor, giving an upward squeeze to the teat. The four quarters of the cow's udder are emptied simultaneously, the suction and

at the upper end of an ancient or East Indian rosewood) is a magnineent dining-hall, where the high table stood; tree, furnishing one of the most valuable also a seat with a high wainscot back, furniture woods. D. Siesoo gives a hard, and sometimes with a canopy, for those wood, called sissoo, much emwho sat at the high table. The word is ployed in India for railway-sleepers, house also sometimes applied to the high table.

The RICHARD on American page

itself.

Daisy (da'si), the name of a plant which is very familiar, and a great favorite (Bellis perennis). In the days of chivalry it was the emblem of delity in love. Its name is literally day's eye, because it opens and closes its flower with the daylight. It has been naturalized in parts of New England. The common daisy of the United States, the big or ox-eye daisy, also an introduced plant, is properly an aster.

Dak, Dawk (dak), in the East Indies. the post; a relay of men, as for carrying letters, despatches, etc., or travelers in palanquins. The route is divided into stages, and each bearer, or set of bearers, serves only for a single stage. A dâk-bungalow is a house at the end of a stage designed for those who journey by palanquin.

Dakar (dä-kär'), a fort, naval station and seaport in the French West-African colony of Senegal; capital of the settlement and since 1904 the seat of gov-

paper-mills, concrete works, etc., and in the neighborhood granite quarries. Pop-3469.

pressure on the teat being applied about fifty-five times a minute. With this apparatus one man can milk from fifty to sixty cows in two hours.

Dais (dā'is), a platform or raised floor at the upper end of an ancient or East Indian rosewood) is a magnificent dining-ball where the high table stool tree, furnishing one of the most valuable

Dale, RICHARD, an American naval officer, born at Norfolk, Virginia, in 1756. He was first officer under Paul Jones on the Bon Homme Richard, helped materially towards the victory, and was the first man to board the Serapis when captured. He was afterwards put in command of an American squadron, the President being his flagship. Died in 1826.

Dalecarlia (dal-e-kar'li-a), or Dal-ARNE, a tract in Sweden. The name, meaning 'valley-land,' is kept alive in the minds of the inhabitants by the noble struggles which the Dalecar-lians, its inhabitants, made to establish and maintain the independence of the country.

Dalgarno (dal-gar'nō), George, born at Aberdeen about 1627, took up his residence at Oxford, where he taught a private grammar school for about thirty years, and where he died in 1687. He was a man of great originality

and seaport in the French WestAfrican colony of Senegal; capital of the settlement and since 1904 the seat of government. Pop. (1910) 24,800.

Daker-hen (dā'k e r-h e n), a name sometimes given to the corn-crake or landrail, a bird of the family Rallidæ.

Dakoity (da-koi'ti). See Dacoity.

Dakota Formation, a g r o u p of rocks belonging to the cretaceous strata and outcoping along the western border of the great plains from Texas to Alberta. West of the Rocky Mountains the Dakota rocks include workable strata of coal or lignite. In a great portion of the Rocky Mountain system the Dakota rocks belongating to the Cretaceous, and sometimes Jurassic, strata.

Dakota Indians (da-kō'ta). See Born in the French West of the Rocky Mountains system the Dakota rocks showed high administrative talent, establishing railway lines, telegraphs, irrigation works, etc., on a vast scale. He greatly extended the British empire in India, annexing the Punjab, Oude. Berar, and other native states, as well as Pegu in Burmah. In 1849 he was made a marquis, and obtained the thanks of both



Houses of Parliament. He outstayed his Southwest; served by nine railroads and term of office to give the government the five interurban lines. It is the center of aid of his experience in the annexation of a rich cotton, corn, wheat, alfalfa and Oude; and when he returned to Europe fruit district. The leading manufactures are cotton gin machinery, saddlery and harness. Besides a fine public school system, there are numerous private schools and colleges. Pop. 131,278.

schools and colleges. Pop. 131,278.

Dallas-Celilo Canal, opened after ten years of work at Big Eddy, Oregon, April 28, 1915.

The canal opens the Columbia River to steam traffic from the Pacific Ocean to Priest Rapids, Oregon, a distance of 450 miles, and to Lewiston, Idaho, 475 miles up the Snake River, a tributary of the Columbia. The canal cost \$4,850,000 and was constructed by the federal governwas constructed by the federal government.

Dalles (dalz), the name given to various rapids and cataracts in North America. The Great Dalles of the Columbia are about 200 miles from

Marquis of Dalhousie.

Marquis of Dalhousie.

in 1856 it was with a constitution so completely shattered that he was never able to appear again in public life, and died on December 19, 1860. As he left no direct male issue, his marquisate expired with him. December 19, 1860. As he left no direct the Austrian dominions. It consists of male issue, his marquisate expired with him.

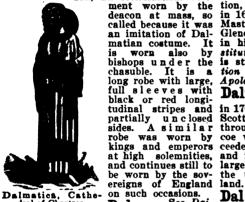
Dall, WILLIAM HEALY, naturalist, born tainous country and a number of large islands along the northeast coast of the Adriatic Sea, and bounded N. by Croatia, and N. E. by Bosnia and Herzegovina. Was in Alaska with a telegraphic expedition 1866-68; on the Coast Survey in Alaska 1871-84; palæontologist on the Geological Survey 1884-98; since 1880 a rea is 4940 English square miles. The Geological Survey 1884-98; since 1880 a inland parts of Dalmatia are diversified curator of the National Museum. He is by undulatory ground, hills, and high a member of the National Academy of Sciences. His works include Alaska and rich and beautiful valleys, the country its Resources, Coast Pilot of Alaska, on the whole must be considered poor sciences. His works include Australia on the whole must be considered poor Tribes of the Extreme Northwest, Contributions to North American Ethnology, Zermagna, the Kerka and the Cettina etc.

On come of these the senercy. Dallas (dalas), George Mifflin, courses. On some of these the scenery Vice-President of the United States, was born in Philadelphia in 1792, of the Treasury under President Madison and founder of the second United States Bank. Becoming prominent in the Bank. Becoming prominent in the grain for its own wants. Apples, pears, Democratic party, he was elected United peaches, apricots, oranges, pomegranates, States Senator in 1831, was made Minister to Russia in 1837, and elected are strong, sweet and full bodied. On Vice-President, under President Polk, in 1844. He was Minister to England 1856-61. He died in 1864.

Dallas, county seat of Dallas Co., lotomy of Italian extraction. Chief of these are Texas, on the Trinity River, the largest Zara (the capital), Sebenico, Cattaro, manufacturing and jobbing city of the of the Court of Session. His publications, salt and asphalt. The population is divided between the Italians of the coast of Scotland from Malcolm Cannore to towns and the peasants of the interior, the Accession of the House of Stuert, Slovenian Slavs speaking a dialect of the Slavonic. The majority are Roman Catholics. After passing successively through the hands of Hungarian and Venetian rulers, and of the first Napoleon, Dalmatian nuler, a variety of Dalmatian Dog, a vari

Dalmatian Dog, a variety of dog called also the Danish, spotted, or coach-dog. See Coach-

Dalmatic (dal-mat'ik), or DALMAT-ICA, an ecclesiastical vest-



(twelfth century).

ment worn by the deacon at mass, so called because it was an imitation matian costume. It an imitation of Dal-It bishops under the chasuble. It is a long robe with large, full sleeves with black or red longitudinal stripes and partially unclosed sides. A similar robe was worn by kings and emperors at high solemnities, and continues still to See Dai-

ren. Dalriada (dal'ri-a-da), the ancient name of a territory in Antrim, called after Carbry Riada, one

Dalny.

Parliament, but afterwards joined the royalists; was made a knight on the Restoration, and in 1671 president of the Court of Session. In 1682 he fell out of favor with the king, and retiring to Holland became an adherent of the Prince of Orange, who, after the revolu-tion, raised him to the peerage. He died in 1695. The connection of his son, the Master of Stair, with the massacre of Glencoe brought some odium upon him in his last years. He wrote: The Institutes of the Laws of Scotland (which is still a standard authority), Vindication of the Divine Perfections and An Apology for his Own Conduct.

Dalrymple, John, first Earl of Stair, born in 1648; died in 1707; son of the preceding was an able

in 1707; son of the preceding, was an able Scottish lawyer and statesman. It was through him that the massacre of Glencoe was perpetuated in 1692. He succeeded his father as viscount in 1695, and in 1703 was created earl. He was largely instrumental in bringing about the union between Scotland and Eng-

Dal Segno (sen'yō; Italian), often contracted into D. S., means 'from the sign.' In music this expression denotes that the singer or player shall recommence at the place

Dalriada (dalria-da), the ancient name of a territory in Antrim, called after Carbry Riada, one of its chiefs. In the sixth century a band of Irish from this quarter settled in Argyleshire under Fergus MacErc, and founded the kingdom of the Scots of Dalriada. After being almost extinguished, the Daldriadic line revived in the ninth century with Kenneth Macalpine, and, seizing the Pictish throne, gave kings to the whole of Scotland.

Dalry (dal-rē), a town of Scotland, Dalry (dal-rē), a town of Scotland, 19 miles s. w. of Glasgow, with ironworks and woolen and worsted mills. Pop. 5316.

Dalrymple (dal-rim'pl), Sir David, and visited Paris. In 1808 he announced in his New System of Chemical action, the discovery of which spread his fame over Europe. Various academic and other honors were bestowed upon him, and in 1833 he received a pension of the bar, and in 1766 was made a judge

Dalton-in-Furness, a town of Eng-county of Lancaster. In its vicinity are jury; trespassing, as cattle; applied to a extensive ironworks, and the ruins of stranger's beasts found in another per-

lina, in 1838; died in 1859. He became a very successful theatrical manager, and established Daly's Theater, New York, in 1879. He served as a dramatic critic, adapted French and German plays, and wrote Under the Gaslight, Divorce, Pique, etc.

and wrote Under the Gasignt, Divorce, played, etc.

Daly, at New York in 1816; died in 1839. He was admitted to the bar in 1837, became judge of the New York Court of Common Pleas in 1844, and was ges cover only the loss sustained estimated to the harmonic form of the American Geographical Society from its origin in 1864, and wrote on the history of map making and physical geography, etc.

Dalyell, a Scottish soldier, born about 1599. He was taken prisoner fighting of the royalist side at Worcester, and afterwards escaped to Russia, where he was made a general. Returning to England at the restoration, he was made to make the forces in Scotish and made himself notorious for his ferocity against the Covenanters.

Daman (damages, and may estimate the amount of the loss be has sustained not at its real value, together with pudge or a jury. In other cases the damages cover only the loss sustained estimated at its real value, together with the expenses incurred in obtaining damages.

Daman. See Hyras.

Daman (da-mān'), a seaport of Hindustan, at the mouth of trom Bombay. It belongs to the Porton the royalist side at Worcester, and afterwards escaped to Russia, where he was made a general. Returning to England at the restoration, he was made it a permanent settlement in 1558. It formerly had a large trade, but this land at the restoration, he was made it a permanent settlement, which commander-in-chief of the forces in Scotish soldier, born about the Galf man-hor'), a town of the loss sustained not at its real value, together with the expenses incurred in obtaining damages.

Daman (da-mān'), a seaport of Hindustan, at the mouth of the Gulf of Cambay, 100 miles north from Bombay. It belongs to the Porton Bombay it in 1531, and a large trade, but this land at the restoration, he was made it a permanent settlement, which commander-in-chief of the forces in Scotish soldier, born about the loss sustained of the real value, together with the real value, together with the real value, together with the real value, together wh

ferocity against the Covenanters. died in 1685.

Dam, a bank or construction of stone, earth, or wood across a stream for the purpose of keeping back the current to give it increased head, for holding back supplies of water, for floading lands back supplies of water, for flooding lands, or for rendering the stream above the dam navigable by increased depth. Its material and construction will depend on its situation and the amount of pressure it has to bear. For streams which are broad and deep strong materials are required, usually stone masonry bound in hydraulic cement and a strong frame-work of timber. The common forms of a dam are either a straight line crossing the stream transversely, one or two mar Resin. straight lines traversing it diagonally, or Damascening (dam's-sen-ing). an arc with its convex side towards the current. The breaking of a dam, thus letting loose its volume of held back water, is apt to be attended with serious afterwards called aloo John Ofrysorrhoss loss of life and property, as in several ('golden stream'), was born at Darecent cases in the United States. See mascus about 676 A.D.; died about 760. He was the author of the first system

extensive fromworks, and the ruins of stranger's beasts found in another perthe magnificent Cistercian abbey of Furness. Pop. (1911) 10,765.

Daltonism, another name for Colorblindness, which see.

Dalton's Law. See Gas.

Daly (da'i), Augustin, dramatist have been a fluedle more recommendation of the foundation of the following series of the color of the following series of the color of the color of the following series of the color of the col Daly

(da'li), Augustin, dramatist have been a fraudulent one; it is enough born at Plymouth, North Carothat it be illegal, unwarrantable, or malicious. If, however, a person has not a successful theatrical manager, suffered a loss through fraud or delict on a successful theatrical manager, only a claim to ordinary damages, but may also claim remote or consequential may also claim remote or consequential damages, and may estimate the amount of the loss he has sustained not at its real value, but at the imaginary value which he himself may put upon it, subject, however, to the modification of a judge or a jury. In other cases the damages cover only the loss sustained estimated at its real value, together with the expenses incurred in obtaining damages.

(da-man-hör'), Damanhoor a town

Alexandria. It has manufactures of cotton and wool. Pop. 38.752.

Damar (dä-mär'), or DEMAR', a town of Yemen, Arabia, 120 miles north by west of Aden. Pop. about 20,000.

Damar. See Dammar.

Damaraland (dam'a-ra-land), a German protectorate in South Africa, extending along the Atlantic coast from Cape Frio to Walfisch Bay, and inland to 20° E. long. Area about 100,000 sq. miles, including a large amount of barren lands.

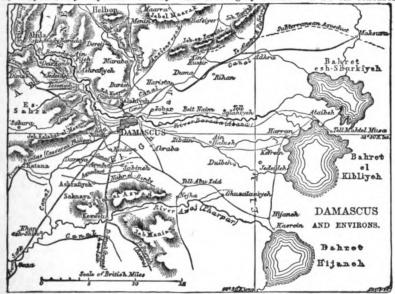
Damar Resin (da'mar). See Dam-

Damaskeening.

Damascenus (dam-a-se'nus), John,

Damascus Damask

of Christian theology in the Eastern portant and busiest streets is 'Straight Church, or the founder of scientific Street,' mentioned in connection with dogmatics, and his exposition of the the conversion of the Apostle Paul. Da-orthodox faith enjoyed in the Greek mascus is an important emporium of Church a great reputation. Damascus (da-mas'kus), a celebrated also a place of considerable manufacture in silk, damasks, cotton and ent chief town of Syria, supposed to be the other fabrics, tobacco, glass, soap, etc. most ancient city in the world. It is beautifully situated on a plain which is covered by the Barrada. The appearance of the city, as it first opens on the view, has cities, it continues to be the most been rapturously spoken of by all thoroughly oriental in all its features of



except in the wealthy Moslem quarter, the houses are low, with flat-arched doors and accumulations of filth before the entrance. Within, however, there is often a singular contrast, in courts paved with marble and ornamented with trees and spouting fountains, the rooms adorned with arabesques and filled with splendid furniture. Among the chief buildings are the Great Mosque and the Citadel. The in the making of swords for its hardness lined with shops, stalls, cafés, etc. In ordinary proportions, produced by careful the midst of the bazaars stands the heating, laborious forging, doubling and Great Khan, it and thirty inferior khans twisting. being used as exchanges or marketplaces Damask (dam'ask), the name given by the merchants. One of the most imby the merchants. One of the most im-

travelers; but the streets are narrow, any city in existence. Of its origin notherooked, and in parts dilapidated, and, ing certain is known; but it is of great antiquity, being mentioned as a place apparently of importance in Gen. xiv, 15. After passing successively under the power of Israelites, Persians, Greeks and Romans, it fell in 1516 into the hands of

the Turks. Pop. (1912) est. 300,000.

Damascus-steel, a kind of steel originally made in bazaars are a notable feature of Da- of edge and flexibility. It is a laminated mascus. They are simply streets or metal of pure iron and steel of peculiar lanes covered in with high woodwork and quality, carbon being present in excess of

Damaskeening (da m-a s-kēn'ing), king. Damiens was condemned and torn the ornamenting of in quarters by horses March 28, 1757, on iron and steel with designs produced by the Place de Grève at Paris. inlaying or incrusting with another metal, Damietta (da-mi-et'a), a town of as gold, silver, etc., by etching, and the

high, leaves lanceolate, flowers purple, often double, is a fine garden perennial, said to be native about Lake Huron.

Damien (dä-me-an), FATHER, a Catholic missionary, born in Bel-

at the age of nineteen, his life was one of the noblest self-sacrifice. He sought the leper settlement of the Hawaiian

Damiens (da-mē-ān), Robert Fransother Indian species.

Cois, notorious for his attempt to assassinate Louis XV, was the son of a poor farmer, and born in 1715 in the village of Tieulloy. His somber its mouth; length, 350 miles. in the village of Tieulloy. His somber its mouth; length, 350 miles. and obstinate disposition early obtained him the name of Robert-le-Diable. After enlisting as a soldier he became a house-servant in various establishments in Dionysius the Elder. One day he was Paris, and, having robbed one of his extolling the grandeur and happiness of masters, he had to save himself by flight. Dionysius, whereupon the latter invited After spending some months in different him to a magnificent banquet, where he cities, in 1756 he returned to Paris with a mind which seems to have become disordered. On January 5, 1757, as Louis

materials, ornamented with raised figures XV was getting into his carriage to return of flowers, landscapes, and other forms, from Versailles to Trianon, he was being the richest species of ornamental stabbed by Damiens in the right side. weaving, tapestry excepted. Damask is The wound was of a trifling nature, and very commonly made in linen for table Damiens, who made no attempt to escape, napery.

declared he never intended to kill the

Damietta (da-mi-et'a), a town of Egypt, on one of the principle branches of the Nile, about 6 miles like.

Damasus (dam'a-sus), the name of a pope born about 305, reigned 366-384. He was a friend of St. Jerome, whom he led to undertake the improved Latin version of the Bible known as the Vulgate.

Dambool (dam-bol'), a village of Ceylon, 70 miles northeast of Colombo, at which is a rock containing a number of caves, in one of which is a rounder of the rock.

Dames of the Revolution, an American society founded in 1896, its membership being confined to women of the United States during the Revolution, the United States during the Revolution, an American society founded in 1896, its membership being confined to women of the United States during the Revolution, the confined states during the Revolution, and the principle branches of the Nile, about 6 miles from its mouth. It contains some fine mosques, bazzars and marble baths. Alexandria has long diverted the great stream of commerce from Damietta, but the latter has still a considerable trade with the interior in fish and rice. The ancient town of Damietta stood about 5 miles nearer the sea. Pop. (1907) 29,354.

Dammar (dam'ar; or Dam'mara wing on the principle branches of the Nile, about 6 miles from its mouth. It contains some fine mosques, bazzars and marble baths. Alexandria has long durerted the great trade with the interior in fish and rice. The ancient town of Damietta stood about 5 miles nearer the sea. Pop. (1907) 29,354.

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Dammar (dam'ar; or Dam'mara wing on end by their seeds having a wing on end. The Dammara distribution of the nat. order Coniferse, distinguished by their seeds having a wing on end in the principle from its mouth. It contains and marble baths. Alexandria has long durerted the great stream of commerce from Damietta. of the United States during the Revolu-tionary war.

THE ROCKET, the in the North Island of New Zealand, is a magnificent tree, rising to a height of Hespèris matronalis, nat. order Brassiaceæ, stem single. erect, 3 to 4 feet See Kauri.

Dammar Resin, a gum or resin of duced by different trees. The East Damien (da-me-an), Farther, a Catholic missionary, born in Belgium in 1840. Admitted to holy orders Indian Islands (see above), and is used for making varnishes for coach-builders, painters, etc. In its native localities it is burned as incense, and is also used Islands in 1874 and spent the remainder for caulking ships. Sal dammar is pro-of his life among these unfortunates as duced by the sal tree of India (Shorès physician and helper. Leprosy attacked robusta), rock dammar by Hopes coorsis him in 1885, but he worked on devotedly and other species of trees; both yield till his death in 1889.

Tomians (da-me-an), Robert Fran-other Indian species.

has this pleasant incident for its basis. Its growth has been remarkably rapid, and lodges are in existence in every state of the Union. See Knights of Pythias.

Dampier (dam'pi-er), WILLIAM, an English navigator, born in 1652. He was descended from a good family in Somersetshire; but losing his father when young, he was sent to sea, and soon distinguished himself as an able mariner. After serving in the Dutch war, in the Bay of Campeachy as a log-



of a similar nature, he returned home in war, was sent to Russia as minister in 1691. In 1697 he published his Voyage 1781, was judge of the Supreme Court of Round the World, which became very Massachusetts in 1785, and was chosen

pened to look upwards, and perceived with dismay a naked sword suspended over his head by a single hair, and was out for a voyage of discovery in the thus taught to form a better estimate of voyage (1700), foundered off the isle of Damon and Pythias (da'mun, pi'-the-as), two illustrious Syracusans, celebrated as models of constant friendship. Pythias had been unjustly condemned to death by a spilot with Captain Woodes Rogers, Dionysius the Younger, tyrant of Sicily; but with Captain Woodes Rogers, Dionysius the Younger, tyrant of Sicily; and accompanied him on his voyage round but, having to leave Syracuse to arrange the world. He died in 1715. Besides his affairs, his friend Damon was taken as a pledge that Pythias should return and Descriptions, a supplement to it, and but, having to leave systems the leave systems to leave s choke-damp, consisting chiefly of carbonic acid gas, which instantly suffocates; and fire-damp, consisting chiefly of light carburetted hydrogen, so called from its tendency to explode.

Damson (dam'sen), a variety of the common plum (Prunus domestica). The fruit is rather small

domestica). The fruit is rather small and oval, and its numerous subvarieties are of different colors; black, bluish, dark purple, yellow, etc. The damson (corruption of Damascene), as its name imparts, is from Damascus.

Dan (Hebrew, meaning 'judgment'), one of the sons of Jacob by his concubine Bilhah. At the time of the exodus the Danites numbered 62,700 adult males, being then the second tribe in point of numbers. Samson was a member of this tribe.

member of this tribe.

Dana (da'na), CHARLES ANDERSON, editor, was born in Hinsdale, New Hampshire, in 1819. After association with the New York Tribune for 14 years as one of the proprietors and managing editor, in 1863 he was appointed Assistant Secretary of War. After 1868 he was the editor of the New York Sun.

william Dampier.

William Dampier.

Wood-cutter, in a band of privateers on the Peruvian coasts, in a Virginian expedition against the Spanish settlements in the South Seas, and other enterprises of a similar nature. he return the season of the New York Sus. Perhaps more than any other journalist his personality was identified with his newspaper. He died in 1897.

Dana, Francis, statesman, born at 1743; died in 1811. He became an able lawyer, joined the 'Sons of Liberty,' and was active in the measures leading to the Revolution. He was a provided the New York Sus. Perhaps more than any other journalist his personality was identified with his newspaper. He died in 1897.

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a member of the constitutional convention firmed the decision of the lower courts,

His writings include System of Mineral-

bridge in Massachusetts; educated at Harvard; published several collections of

him on account of his health.

Danae (dan'a-e), in Greek mythology, daughter of Acrisius, king of Argos. She was shut up by her father in a brazen tower, but Zeus, inflamed with passion for her, transformed himself into a golden shower, and descended through the apertures of the roof into her embraces. Set adrift on the waves by her father, she reached safely one of the Cyclades, where her child, Perseus, or military feeling, as in the case of the was brought up.

was brought up

was brought up.

Danaides (da nā'i dēz), the fifty dance of David before the ark, the choric dances, or the Pyrrhic dance of the Greeks. The Romans, however, like the orientals, had their dancing done by hired slaves. This solemn character of the Argos, where he was chosen king. The fifty sons of Ægyptus, the Lybian refinement and civilization, and it is now king, followed him and under pretense of friendship, sought the hands of his daughters in marriage. Danaus consented, but gave each of his daughters a dagger, bidding them to murder their husbands on the bridal night in revenge for his treatment by Ægyptus. All did so except one, Hypermnestra, who allowed Lynceus, her husband, to escape. for his treatment by Ægyptus. All did so except one, Hypermnestra, who al-lowed Lynceus, her husband, to escape.

23,502.

Danbury Hatters' Case, a famous dividual cases. the history of capital and labor. After Dandelion

of 1787, but ill health prevented his serv-ing. awarding to D. E. Loewe and Co., of Dan-bury, Connecticut, \$250,130 damages for Dana, JAMES DWIGHT, an American a nation-wide boycott declared by the after 1855 a professor at Yale College. plaintiff for refusal to unionize his shops. (dan'bi), Francis, painter, born near Wexford, England. Danby ogy, Manual of Mineralogy, Coral Reefs and Islands, Manual of Geology, Text-born near Wexford, England. 1893. He established his reputation in book of Geology, and many reports and 1823 by his Sunset at Sea after a Storm; papers. He died in 1895. and in 1825, by his Delivery of Israel out Dana, RICHAED HENRY, an American of Egypt, obtained the honor of being writer, born in 1787, at Cam-admitted as an associate of the Academy. Among his subsequent pictures the most Harvard; published several collections of celebrated are the Opening of the Sixth poems and two novels. He died in 1879. Seal, exhibited in 1828; the Age of Gold,—His son RICHARD HENRY (born in in 1831; The Enchanted Island—Sunsct. 1815; died in 1882) was the author of in 1841; The Contest of the Lyre and the well-known work Two Years before Pipe in the Vale of Tempe, in 1842; and the Mast, the result of his own experithe Mast, the result of his own experi-ences during a voyage recommended to excellence lay in his delineations of him on account of his health.

dance of David before the ark, the choric

lowed Lynceus, her husband, to escape during the celebration of the festival of The poets tell us that in the underworld St. John at Aix-la-Chapelle, the streets crimes, were compelled forever to pour water into a vessel full of holes.

Danbury (dan'ber-i), a city, one of the capitals of Fairfield Co., Connecticut, 65 miles N. N. E. of New York. It has many large hat factories, also manufactures of plated ware, boxes, underwear and machine shops, etc. Pop. 23,502.

became crowded with men and women of all ranks and ages, who commenced dancing in a wild and frantic manner till they dropped down with fatigue. The mania spread to Cologne, Mets and Strasburg, and gave rise to much impossion in the profile of the seventeenth century the epidemic began to decline, and is only the Danaides, as a punishment for their became crowded with men and women of crimes, were compelled forever to pour all ranks and ages, who commenced dance known now as a nervous affection in in-

the history of capital and labor. After Dandelion (dan-de-li'on, Leontodos Tarasacum), a plant beeleven years litigation it came to an end fonging to the nat. order Composities,
on January 5, 1915, when the United indigenous to Europe, but now also comStates Supreme Court unanimously af mon in America. The leaves are all

radical, and runcinate or jagged on the and ultimately seven, for every hide of radical, and runcinate or jagged on the and ultimately seven, for every hide of margin. From this circumstance has been land, except such as belonged to the derived its French name dent de lion church. When the Danes became masters (lion's tooth), of which the English apof England the danegelt was a tax pellation is a corruption. The stems are levied by the Danish princes on every hollow and have one large bright-yellow hide of land owned by the Anglo-Saxons. flower and a tapering, milky, perennial panelagh, Danelagh, Danelagh, ancient name of a strip cond is much extend in affections of the certainty along the second in the conditions. pellation is a corruption. The stems are hollow and have one large bright-yellow flower and a tapering, milky, perennial root, which acts as an aperient and tonic, and is much esteemed in affections of the liver. The whole plant is full of a milky and bitter juice. (See *Taraxacin*.) The seed of the plant is furnished with a white parpurs and is transported for and

not, which acts as an aperient and tonic, and is much esteemed in affections of the liver. The whole plant is full of a milky coast of England from the Thames to and bitter juice. (See Taraacin.) The seed of the plant is furnished with a white pappus, and is transported far and wide by the wind.

Dandie Dinmont Terrier, a perculiar breed of the Scotch terrier, so called from the Border farmer of that name who figures in Scott's novel of Guy Manner-tigures in Scott's novel of Guy Manner-tigures. It is very courageous when fully either of a light-brown or a bluish-gray color, termed respectively the 'Mustard' and the 'Pepper' variety.

Dandolo, Andrea, Doge of Venice

Dandolo, Andrea, Doge of Venice

Dander for the critical and the indicate and the surface and the Schleswig-Holstein war of 1864 and the surface and the surface and the surface and the Schleswig-Holstein war of 1864 and the Schleswig-Holstein war of 1864 and the surface and the surface and the Schleswig-Holstein war of 1864 and the Schleswig-Holstein war of 1864 and the surface and the surfa

tian family, was born about 1310, and made doge in 1343. He carried on a war against the Turks with various success, and greatly extended Venetian commerce

per' variety.

Dandolo, Andrea, Doge of Venice the Schleswig-Holstein war of 1864 and and of an illustrious Venesoon after destroyed.

Dandolo, and of an illustrious Venesoon after destroyed.

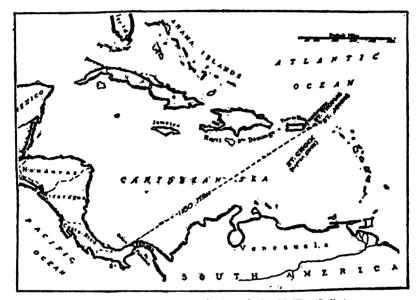
soon after destroyed.

Daniel (dan'yel), the prophet, a contemporary of Ezekiel, was born temporary family. In his of a distinguished Hebrew family. In his youth, B.C. 605, he was carried captive to Babylon, and educated in the Babylonish court for the service of King Nebuchadnezzar. Thrown into a lions' den for conscientiously refusing to obey against the Turks with various success, and greatly extended Venetian commerce by opening a trading connection with to Babylon, and educated in the Babylon was published in Muratori's collection. He died in 1354.

Dandolo (dan'do-lo), Enrico, Doge of venice, was chosen to that roffice in 1192, at the advanced age of eighty-four. On the formation of the Fourth Crusade Dandolo induced the senate to join in it, and by its help recovered the revolted town of Zara. Constantinople was next stormed, the blind old doge, it is said leading the attack. In the division of the Byzantine Empire the Venetians added much to their dominions. Dandolo died at Constantinople in 1205, at the age of ninety-seven. Danebrog, Dannebrog (dan'e-brog), literally 'the cloth or banner of the Danes,' a Danish order of knighthood, said to have been instituted in 1219, and revived in 1693. The decorations consist of a cross of gold pattée, reliable hatton for maintainng forces to oppose the Danes, or to furnish tribute to procure peace. It was at first one shilling,

commenced the Quarterly Journal of rod immersed in a solution of dilute sulScience and Art in concert with Mr. phuric acid, or zinc sulphate solution, and
Brande. In 1820 he published an account separated by a porous pot of unglazed
of a new hygrometer which he had invented. Soon afterwards his valuable into a solution of copper sulphate. The among which is his apparatus for main- common use.

vented. Soon afterwards his valuable into a solution of copper sulphate. The works, Meteorological Essays and the chemical reaction consists practically in essay on Artificial Climate, appeared. In the replacement of copper by sinc in the 1831 he was appointed professor of solution. Though the E. M. F. of the chemistry in King's College, London, and Daniell cell is only 1.08 volta, it is more made further important discoveries, chief constant than that of any other cell in



Map Showing the Virgin Islands (formerly Danish West Indies).

taining a powerful and continuous current of electricity in galvanic batteries (see following article). For these discoveries he received successively the three 1843, and died in 1845.

The emential parts of the cell are a sinc of the Navy.

JOSEPHUS, American editor and public official. He was Daniels, born in Washington, N. C., in 1862, and received an academic education. At the age of 18 he engaged in newspaper work. medals in the gift of the Royal Society. age of 18 he engaged in newspaper work. He was made a D.C.L. of Oxford in He was a member of the Democratic National Executive Committee from North Daniell's Battery, an electric cell Carolina for many years, and a member invented by J. of the Democratic National Committee F. Daniell in 1836. In its present form which carried on the campaign for the it is a two-fluid cell in which depolarisanomination and election of President Wiltion is effected by electro-chemical means, son, in whose cabinet he became Secretary

Danish West Indies, the former number of rude tribes that inhabit Africa, title of three east of Abyssinia, between it and the islands in the Virgin Island group of the Red Sea. They are of the Mohammedan West Indies, now part of the outlying religion. Number about 70,000. Dannecker (dan'ek-er), Johann Da have done so for \$5,000,000. What gives them their present increased value is the fact that they lie on one of the chief routes of travel between Europe and the Panama Canal, and possess an excellent harbor, that of Charlotte Amalie. The fear was entertained that Germany or some other European power might gain possession of these islands, a possibility likely to prove to the disadvantage of the United States.

These islands are known as Santal

These islands are known as Santa Crus (Sainte Croix), Saint Thomas, and Saint John, their total area being 138 square miles and their combined populasquare miles and their combined popula-tion 32,786, chiefly divided between the first two named. These people are mostly negroes and the product of the island mainly sugar-cane and rum. Tobacco mainly sugar-cane and rum. Tobacco and cotton are also grown. These islands were discovered by Columbus, and have been successively held by Holland, England, Spain, France and Denmark, their first ownership being that of the United States. Their value, as stated, lies in the port of Charlotte Amalie, which is a coaling and cable station and has facilities for ship repairing. In the heads of ties for ship repairing. In the hands of the United States it is likely to develop into a port of active business. See Saint Thomas and Charlotte Amalie.

Danites (dăn'îtz), a former secret so-ciety of the Mormon Church for militant action against its enemies. It was organised by Joseph Smith at Kirtland, Ohio, in 1836, by a 'covenant' to avenge any further expulsion of the Missey Morrosch by Webs. Missouri Mormons by mobs. The name finally chosen by the society was Sons of Dan, turned by outsiders into Danites. It is usually charged with all the deeds of blood laid at the door of the Mormons, including the Mountain Meadows massacre. The Mormons have denied that the society had any existence, or if it had that it was in no way connected with the Mormon Church or was countenanced by it. The name was also given by the Douglas Democrats to the Buchanan Democrats in the Lincoln-Douglas sena-

Panther.

Dannemora (da-ne-mo'ra), a village on a lake of the same name, 24 miles N.N.E. of Upsala, in Sweden, celebrated for its iron-mines, the second richest in Sweden, which have been worked uninterruptedly for upwards of three centuries.

D'Annunzio (dän-nun'sö-ö), Ga-BRIELE, an Italian poet, dramatist and novelist, born at Franca-villa in 1864. Inspired by the work of Carducci, he began writing poetry at a very early age. In 1897 he turned to the drama and in such plays as La Citta Morta (1898), La Gioconda (1899) and Francesca da Rimini (1902) revealed unusual dramatic force. D'Annunsio has also won fame as a novelist. Among the best known novels are II Piacore (1889), La Vergini delle Rocce (1895), and II Fucce (1900). Many of his works have been translated into English.

been translated into English.

Dan River. A river rising in the Blue Ridge Mountains, in Patrick County, Virginia, and flowing southeast into North Carolina. It combines with the Staunton River in southern Virginia to form the Roanoke River. It is 180 miles long and drains an area of about 3700 square miles. The river is navigable for light boats and furnishes extensive water power.

Dante, Alighter (dan'ta a-18-ge-a're), the greatest of Italian poets, was born in Florence about the end of May, 1285, of a family belonging to the lower nobility. Of his early life and education little is definitely known. He is said to have studied in various seats of learning, and it is certain that either at this time or

it is certain that either at this time or in the course of his wandering life he made himself master of all the knowl-Democrats in the Lincoln-Douglas sena-torial campaign in Illinois, 1858, as an insinuation that they were Buchanan's tools in upholding the Utah rebellion. Dankali, or Dana'kii (the former the love she awakened in him has been described in that record of his early years, the Vita Nuova, as well latter the plural), the common name of a gr ir by later real work, the Dicies Commedia, in terms which make it hard even Paris. In 1314 he found shelter with to distinguish the real personality of Can Grande della Scala at Verona, where Beatrice from some ideal power of beauty he remained till 1318. In 1320 we find and virtue of which she is to Dante the symbol. Their actual lives at least went Guido da Polenta. In September, 1321, far enough apart, Beatrice marrying a his sufferings and wanderings were ended not be florenting. Simone Rardi in 1927 far enough apart, Beatrice marrying a noble Florentine, Simone Bardi, in 1287,



far enough apart, Beatrice marrying a noble Florentine, Simone Bardi, in 1287, by death. He was buried at Ravenna, and dying three years afterwards; while the year following Dante married Gemma dei Donati, by whom he had four children. At this time the Guelfic party gether, during his exile, is divided into three parts, entitled Hell, Purgstory and Paradise. The poet dreams that he has wandered into a dusky forest, when the shade of Virgil appears and offers to conduct him through hell and purgatory. Further the pagan poet may not go, but Further the pagan poet may not go, but Beatrice herself shall lead him through paradise. The journey through hell is first described, and the imaginative power with which the distorted characters of the guilty and the punishments laid upon them are brought before us; the impressive pathos of these short historiesoften compressed in Dante's severe style into a couple of lines of pope and Ghibelline, Italian lord and lady; the passionate depth of characterization, the subtle insight and intense faith, make up Dante.

Dante beholds Reatrice earthly paradise Dante beholds Reatrice. lines. Dante's sympathies were with the in a scene of surpassing magnificence, Bianchi, and being a prior of the trades ascends with her into the celestial para- and a leading citizen in Florence he went dise, and after roaming over seven spheres Bianchi, and being a prior of the trades and a leading citizen in Florence he went on an embassy to Rome to influence the pope on behalf of the Bianchi. The rival faction of the Neri, however, had got the upper hand in the city, and in the usual fashion of the time were burning the houses of their rivals and slaying the houses of their rivals and slaying them in the open street. In Dante's magnitude. The deity himself, in the absence his enemies obtained a decree of banks of their street. In Dante's magnitude. The deity himself, in the absence his enemies obtained a decree of tenth, he cannot see for excess of light. There are many notable translations of Dante's great poem. Among English versions we may mention those of Cary, be burned alive for malversation and peculation. From this time the poet became, and to the end of his life remained an excellent prose translation by Dr. John came, and to the end of his life remained then hallowed by the legends of later generations, becomes seminythical. He has told us himself how he wandered the hallowed almost all parts where this collection of poems; a Latin treatise, De language is spoken,' and how hard he felt it to climb the stairs and eat the bitter bread of strangers.' During this an Empire: a treatise on the Italian lanperiod he is said to have visited many cities, Arezzo. Bologna, Sienna, etc., and

when the advance of the Prussian army spread consternation among the members of the government Danton alone preserved his courage, and in a celebrated speech summoned all Frenchmen now reached a point when one must suc-cumb, and the crafty Robespierre suc-ceeded in having Danton denounced and thrown into prison, March 31, 1794. Five days afterwards he was condemned by the revolutionary tribunal as an ac-complice in a conspiracy for the restora-tion of monarchy, and executed the same day.

Dantzig, or DANZIG (dant'zih), a fortified town and port of Prussia, capital of the province of West Prussia, 253 miles N. E. Berlin, on the



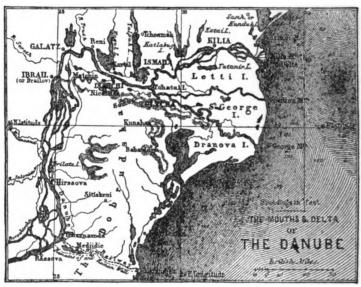
the water and the land, De Aqua et is one of the most important seaports in the Prussian monarchy. The more Danton (dan-ton), George Jacques, modern parts are regularly and well built; an advocate by profession, in the other parts are regularly and well built; an advocate by profession, in the other parts the streets are narand one of the great figures in the row and the houses old and indifferent. French Revolution, born in 1759. His Among the principal buildings are the colossal stature, athletic frame, and church of St. Mary, begun in 1343, the powerful voice contributed not a little, church of St. Catherine, the exchange, together with his intellectual gifts and the arsenal, observatory, three monastogether with his intellectual gifts and the arsenal, observatory, three monasaudacity, to win him a prominent positries, two synagogues, two theaters, etc.
tion among the revolutionaries. He The industries are numerous, but, exfounded the club of the Cordellers, was cepting those connected with shipbuilding,
foremost in organizing and conducting the
artillery and beer, not of great imattack on the Tuileries, August 10, portance. The prosperity of the town
1792, and as a reward for such services is founded chiefly on its transit trade,
was made minister of justice and a member of the provisional executive council.
When the advance of the Prussian army The proper port of Dantzig is Neufahrspread consternation among the memwasser, at the mouth of the Vistula; but
hers of the government Danton alone vessels of large size can now come up to vessels of large size can now come up to bers of the government Danton alone preserved his courage, and in a celebrated speech summoned all Frenchmen capable of bearing arms to march against and the Poles, Dantzig, on the partition the enemy. He voted for the capital punishment of all returning aristocrats, but undertook the defense of religious worship, and along with Robesplerre brought Hébert and the worshipers of the goddess Reason to the scaffold. But the rivalry of the two great leaders had now reached a point when one must successful and enter the town. After being alternately possessed by the Teutonic knights and the Poles, Dantzig, on the partition of Poland, fell to Prussia. Pop. 169,306. Danube (dan'ab; anc. Ister or Danube bius; German, Donau), a celebrated river of Europe, originates in two small streams rising in the Schwarzthe goddess Reason to the scaffold. But the rivalry of the two great leaders had uniting at Donaueschingen. The direct now reached a point when one must successful and the Poles, Dantzig, on the partition of Poland, fell to Prussia. Pop. 169,306. Danube (dan'ab; anc. Ister or Danube) is a population of Poland, fell to Prussia. Pop. 169,306. Danube (dan'ab; anc. Ister or Danube) is a population of Poland, fell to Prussia. Pop. 169,306. Danube (dan'ab; anc. Ister or Danube) is a population of Poland, fell to Prussia. Pop. 169,306. Danube (dan'ab; anc. Ister or Danube) is a population of Poland, fell to Prussia. Pop. 169,306. Danube (dan'ab; anc. Ister or Danube) is a population of Poland, fell to Prussia. Pop. 169,306. Danube (dan'ab; anc. Ister or Danube) is a population of Poland, fell to Prussia. Pop. 169,306. Danube (dan'ab; anc. Ister or Danube) is a population of Poland, fell to Prussia. Pop. 169,306. Danube (dan'ab; anc. Ister or Danube) is a population of Poland, fell to Prussia. Pop. 169,306. Danube (dan'ab; anc. Ister or Danube) is a population of Poland, fell to Prussia. Pop. 169,306. Danube (dan'ab; anc. Ister or Danube) is a population of Poland, fell to Prussia. Pop. 169,306. Danube (dan'ab; anc. Ister or distance from source to mouth of the Danube is about 1000 miles, and its total length, including windings, about 1670 miles. From its source the Danube flows in a northeasterly direction to Ulm, in Würtemberg, where it becomes navigable for vessels of 100 tons; then to Ratisbon in Bavaria, where it becomes navigable for steamers. Here it turns in a southeasterly direction, entering Austria at Passau, passing Vienna and Budapest, above which latter town it suddenly turns due south, holding this direction till it is joined by the Drave, after which it runs s. s. E. and enters Servia at Belgrade. Continuing its general course eastward it forms for a long distance the boundary line between Roumania and Bulgaria. At Silistria it once more turns northward, and flowing between Roumania and Bessarabia falls into the Black Sea by three different outlets. In the upper part of its course, through Würtemberg and Bavaria, the Danube flows through some of the most fertile and populous districts of the most fertile and populous districts of its basin. Its principal affluents here are the Iser and Lech. In Austria it passes through a succession of picturesque scenery till past Vienna, the land on both sides being well peopled and cultivated. The principal affluents are the March, or left bank of the west arm of the Vistula, Morawa, and the Ens. After passing about 3 miles above its mouth in the Baltic, and intersected by the Mottlau, Gate, at Pressburg, where it enters Hunwhich here divides into several arms. It gary, it gives off a number of branches,

forming a labyrinth of islands known as Danvers (dan'vers), a town in Essex Schütten, but on emerging it flows unin Schütten, but on emerging it flows unin-terruptedly southwards through wide Schitten, but on emerging it flows uninterruptedly southwards through wide N. N. E. of Boston. It has manufactures
plains interspersed with pools, marshes, of shoes, leather, electric lamps, bricks,
and sandy wastes. The principal affluetc, and contains St. John's Normal Colents here are the Save, the Drave and lege and Essex County Agricultural
the Theiss. Sixty miles before entering School. Pop. 10,000.
Roumania the river passes through a succession of rapids or cataracts. The river

Danville (dan'vil), the name of four
cession of rapids or cataracts. The river

(1) The capital of Varnillion Co. Illinois

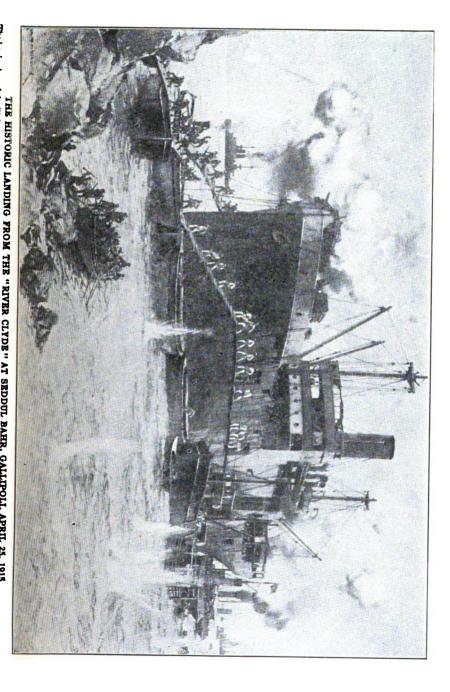
was formerly impassable for ships at this (1) The capital of Vermilion Co., Illinois, point, but the channel was made navig125 miles s. of Chicago. Coal is mined able by extensive engineering works and largely near by, and there are flour, lumcanals. The last of these cataracts, ber, woolen, glass, iron and other in-



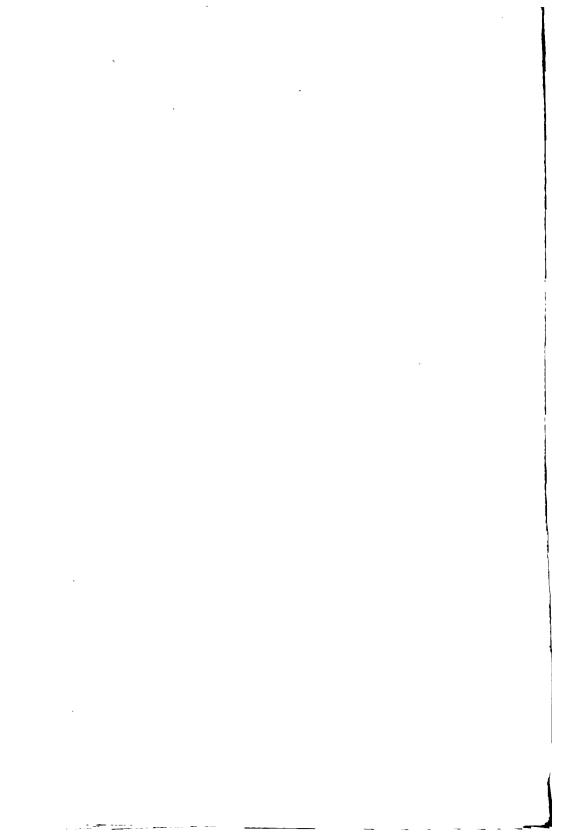
at Old Orsova, is called the Iron Gate. The lower course of the Danube, in Roumania and Bulgaria, is through a flat and marshy tract, fertile but badly cultivated and thinly peopled. In this part it increases its width from 1400 to 2100 yards, and farther on forms an expanse like a sea, and is studded with islands. Of the three outlets the Sulina Mouth is the deepest, and is usually chosen by ships bound up the river. The Danube is navigable for steamers up to the state in the seat of the Randolph Manube is navigable for steamers up to the state in the seat of the Randolph Manube is navigable for steamers up to the state in the seat of the Randolph Manube is navigable for steamers up to the state in the seat of the Randolph Manube is navigable for steamers up to the state in the seat of the Randolph Manube is navigable for steamers up to the state in the seat of the Randolph Manube is navigable for steamers up to the state in the seat of the Randolph Manube is navigable for steamers up to the state in the seat of the Randolph Manube is navigable for steamers up to the state in the seat of the Randolph Manube is navigable for steamers up to the state in the seat of the Randolph Manube is navigable for steamers up to the state in the seat of the seat of the seat of the state in the seat of the se Danube is navigable for steamers up to Regensburg (Ratisbon), nearly 1500 miles from its mouth. Some of its tributaries, such as the Save, the Theiss and the Larve, are also navigable, so that the water system of the Danube may be estimated as admitting of about 2500 and other mills. Pop. 19,020.—(4) A miles of steam navigation. See

Danubian Principalities. Roumania.

(2) A borough, capital of Montour Co., Pennsylvania, 56 miles N. by E. of Har-risburg. It was the seat of the first railroad ironworks in the country, and has some of the largest American ironworks. Here is a State insane asylum. Pop. 7517. Here is a State insane asylum. Pop. 7511.
—(3) A city of Pittsylvania Co., Virginia, on the Dan River, 141 miles s. w. of Richmond. It is the seat of the Randolph Macon Institute, the Roanoke Female College and the Military Institute, is the center of the fine yellow tobacco section. miles 8. 8. W. of Lexington. Here is Center College, founded 1819, the Danville Theological Seminary, and a deaf



THE HISTORIC LANDING FROM THE "RIVER CLYDE" AT SEDDUL BAHR, GALLIPOLI, APRIL 25, 1915
The beginning of the ill-fated attempt to force the Dardanelles. The soldiers are seen disembarking from the transport under shell fire from the Turkish forts.



and dumb asylum.

Her prayer was heard, and at the mo-strait was entered ment Apollo was about to encircle her squadron in March, in his arms she was changed into a effort to reach Conslaurel, a tree thenceforth consecrated to the ships being sunk. the god.

of Hindustan, in the Patna division of Behar, in a low-lying district subject to inundation; it is the residence of the Maharaja of Darbhangah, who has a fine new palace here. Pop. 66.244.

D'Arblay, MADAME. See Burney.

D'Ardanelles (dar'da-nelz); ancient later times the name has been applied to a silver coin having the figure of an archer. In later times the name has been applied to a silver coin having the figure of an archer.

Marmora with the Ægean Sea, and at this particular point separates Europe from Asia. It is about 40 miles in north extremity of South America, belength, and varies in breadth from 1 to 4 tween the Isthmus of Panama and the mainless. Its rapid current, often much accommission. miles. Its rapid current, often much accelerated by winds, runs southward. On Darien, Isthmus of, often used as the Asiatic side the country is fine and fertile, rising gradually upwards from the of Panama, but more strictly applied to

It is an important sea to the range of Mount Ida; the Euro-Daoudnagar. See Daudnagar.

Daphne (daf'nē), the Greek name teries. By treaty made in 1841 between for laurel, in Greek mythol-the five great powers and Turkey, it was ogy a nymph beloved by Apollo. Deaf settled that no non-Turkish man-of-war to the suit of the god, and fleeing from should pass the strait without the permishim, she besough Zeus to protect her. sion of the Turkish government. The lier prayer was heard, and at the most strait was entered by a British naval strait was entered by a British naval squadron in March, 1915, in a futile effort to reach Constantinople, three of

Dardanus (dar'da-nus), in Greek mythology, the progenitor

Daph'ne, a genus of plants, nat.

The part Thymelaces. They are shrubs, inhabiting the greater part of the northern hemisphere, but chiefly the south of Europe and the warmer parts of Asia. The best known is the mezereon (D. Mezeréum), with pale-green leaves and very fragrant flowers. D. Laureola (spurge laurel) has an irritant bark, and its berries are poisonous.

Daphnia (daf'ni-a), the water-flea, a corner of the Great Desert. It may be considered as lying between lat. 11° and 15° N. and long. 21° and 29° E; on the sprolonged into a snout, and is provided with a single, central, compound eye; it is also furnished with antennse, which act as oars, propelling it through of the Trojans.

Dare, Virginia. (dar'da-nus), in Greek mythology, the progenitor of the Trojans.

Dare, Virginia. (dar'da-nus), in Greek mythology, the progenitor of the Trojans.

Dare, Virginia. (dar'da-nus), in Greek mythology, the progenitor of the Trojans.

Arica, forming a large oasis in the s. E. corner of the Great Desert. It may be considered as lying between lat. 11° and 15° N. and long. 21° and 29° E; on the substants are Mohammedans and never it is also furnished with antennse, form their principal wealth. The compared with a single, central, compound form their principal wealth. The compared with a single, central, compound form their principal wealth. The compared with a single, central, compound form their principal wealth. The compared with a single, central, compound form their principal wealth. The compared with a single, central, compound form their principal wealth. The compared with a single, central, compound form their principal wealth. The compound form their principal wealth. cupation is chiefly agriculture, and cattle form their principal wealth. The comeye; it is also furnished with antennæ, which act as oars, propelling it through the water by a series of short springs or jerks. These animals are very abundant in many ponds and ditches; and as they assume a red color in summer impart the appearance of blood to the water.

Darab', or Darabjerd (dä-rab'jerd), a town of Persia, province of Farsistan, beautifully situated in an extensive plain among groves of dates, oranges and lemons, 140 miles southeast of Shiraz. Pop. about 5000.

Darbhangah (dur-bung'ga), a town of Hindustan, in the



Golden Darie, from British Museum.

a Scotsman, towards the close of the seventeenth century. Paterson was a man of promoted a revolt of the Ionian cities, he bold and original conceptions, and possessed of a wide knowledge of commerce Greece. But the ships of Mardonius were and finance. He was the first projector of destroyed by a storm in doubling Mount the Bank of England, but was disap- Athos (492 B.C.), and his army was cut pointed of his just recompense. His next to pieces by the Thracians. Darius, howpointed of his just recompense. His next to pieces by the infacians. Darius, how-scheme was one of magnificent proportions. He proposed to form an emporium 500,000 men, which was met, on the on each side of the Isthmus of Darien or plains of Marathon by an Athenian army Panama for the trade of the opposite con-10,000 strong, under Miltiades, and comtinents. The settlement thus formed pletely defeated (490 B.C). Darius had Panama for the trade of the opposite con- 10,000 strong, under Militades, and continents. The settlement thus formed pletely defeated (490 B.C). Darius had would become the entrepot for an imdetermined on a third expedition when he mense exchange between the manufactures died, B.C. 485.—(2) Darius II, surnamed of Europe and the produce of South Nothos, or the Bastard, by the Greeks. America and Asia. Paterson had designed an illegitimate son of Artaxerxes I to limit the benefits of the scheme to Scot- (Longimanus). He ascended the throne land mainly but had to seek help in 10.23 and die in 404. His see Correct America and Asia. Paterson had designed an illegitimate son of artaxeries a to limit the benefits of the scheme to Scot- (Longimanus). He ascended the throne land mainly, but had to seek help in 423, and died in 404. His son Cyrus London, where the subscriptions soon ran is familiar to us through Xenophon's up to £300,000. Alarm was soon excited Anabasis.—(3) Darius II, surnamed among the English merchants, especially Codomannus, great grandson of Darius II, those connected with the Indies, at the gi-was the twelfth and last king of Persia. gantic Scotch scheme, and the English He ascended the throne B.C. 336, when subscriptions were withdrawn. Scotland, the kingdom had been weakened by luving and the tyranny of the satrana indignant at this treatment, subscribed at once and with great enthusiasm £400,000, a full half of all the cash in the kingdom. a full half of all the cash in the kingdom. resist the attacks of a powerful invader. Little more than the half, however, was Such was Alexander of Macedon; and the paid up. In 1698 five large vessels laden army which was sent against him by with stores, etc., and with 1200 intending colonists, sailed for the Isthmus of the Granicus, in Asia Minor. Darius Darien. The settlement was formed in then hastened with 400,000 soldiers to a suitable position, and the colonists meet Alexander in the mountainous refortified a secure and capacious harbor; but nothing else had been rightly calculated. Many of the colonists were of the gentry, totally unacquainted with peace having been rejected by Alexander, any of the arts necessary in a new colonist collected a second army, and ony; the provisions were either improper meeting the Macedonian forces between for the climate or soon exhausted; the Arbela and Gaugamela was again routed merchandise they had brought was not and had to seek safety in flight (331) merchandise they had brought was not and had to seek safety in flight (331 adapted for the West Indian market. To B.C.). Alexander now captured Susa add to their difficulties the colonists were the capital, and Persepolis, and reduced attacked by the Spaniards and all com- all Persia. Meanwhile Darius was colmerce torbidden with them. For eight lecting another army at Ecbatana in months the colony bore up, but at the Media, when a traitorous conspiracy was end of that time the survivors were compelled by disease and famine to abandon life in 330 B.C. Alexander married his their settlement and return to Europe, daughter Statira.

Two of the ships were lost on the way. Two of the ships were lost on the way home, and only about thirty of the colonists, including Paterson, reached Scotiand.

Darjeeling, or Darjiling (därjel'nome, and only about thirty of the colonists, including Paterson, reached Scotiand.

Scotiand Darjeeling, or Darjiling (därjel'nome, and only about thirty of the colonists, including Paterson, reached Scotiand Covernorship of Bengal, division of Cooch-

the neck of land between the Gulf of after a two years' siege, the revolted city Darien and the Pacific.

of Babylon, and led an expedition of 700. Darien and the Facinc.

Darien Scheme, a celebrated financial project conDanube, from which he extricated himself
offer suffering great losses. To revenge after suffering great losses. To revenge himself against the Athenians who had promoted a revolt of the Ionian cities, he luxury and the tyranny of the satraps under his predecessors, and could not resist the attacks of a powerful invader. Such was Alexander of Macedon; and the

Darius (da-ri'us), the name of several Behar; area, 1234 sq. miles. Tea, coffee, Persian kings. (1) Darius I, cinchona and cotton are cultivated more fourth king of Persia, son of Hystaspes, or less, and the cultivation of the teaprince of the royal family of the plant and the making of tea is now the Achæmenidæ, attained the throne in B.C. staple industry. Pop. 249,117.—Dabjett. 521. His reign was distinguished by ING, the chief town in the district, is many important events. He reduced, a sanatory station for the British troops,

Darlaston Darnley

and though little more than 36 miles from subscribed and presented to her. the plains stands at an elevation of 7400 years afterwards she died of consumations of the plains stands at an elevation of 7400 years afterwards she died of consumations.

Casteaux for 250 miles.

Darling, Grace, a celebrated English heroine, was born in 1815, in Darnel (dar'nel), the popular name of Lolium temulentum, a specific property of Lolium temulentum, a specific property of Lolium temulentum, a specific property to appears to coast of Northumberland), of which her cies of poisonous grass. It appears to father was keeper. In 1838 the steamer be the infelix lolium of Virgil, and the Forfarshire, with forty-one passengers on tares of Scripture. Its properties are board besides her crew, became disabled said to be narcotic and stupefying, but off the Farne Islands during a storm, and recent researches have cast some doubt off the Farne Islands during a storm, and recent researches nave cast some doubt was thrown on a rock where she broke on its reported deleterious qualities. It in two, part of the crew and passenis met with in cornfields, and is now gers left clinging to the wreck. Next naturalized in N. America.

The shrank from attempting to reach the shrank from attempting to reach the shrank from attempting to reach the strength a boiling see in a boat are extensive woolen fectories and spinwreck through a boiling sea in a boat. Hereure, 2½ miles east of Rouen. There wreck through a boiling sea in a boat. There will be daughter Grace, however, implored him to make the attempt and let her accompany him. At last he consented, and father and daughter each taking an oar, they reached the wreck and succeeded in rescuing nine sufferers. The news of the heroic deed soon spread, and the lord the heroic deed soon spread, and the lord the heroic deed testimonials from all of Scots. It was an unfortunate match, ounsiters. A purse of £700 was publicly and ere long gave rise first to coolness. quarters. A purse of £700 was publicly and ere long gave rise first to coolness,

years afterwards she died of consumption, in 1842.

and though little more than 36 miles from the plains stands at an elevation of 7400 ft. above sea-level, on a ridge with deep valleys on either side, in a bleak but healthy situation. There is a residence of the lieutenant-governor, barracks, a forceased in the hot weather.

Darlaston (därlas-tun), a town and creased in the hot weather.

Darley (darli), FELIX O. CARR, article of Stafford. It has extensive coal and iron mines. Pop. 17,107.

Darley (darli), FELIX O. CARR, article of Stafford of Stafford of Stafford of Stafford of Stafford of Stafford of Stafford. It has extensive coal and iron mines. Pop. 17,107.

Darley (darli), FELIX O. CARR, article of Stafford of Staf

conceal her contempt for the handsome in 1809 as a state prison, is now a considered conceal her contempt for the handsome in 1809 as a state prison, is now a considered conceal her contempt for the handsome in 1809 as a state prison, is now a considered conceal her contempt for the handsome in 1809 as a state prison, is now a considered conceal her contempt for the handsome in 1809 as a state prison, is now a considered conceal her contempt for the handsome in 1809 as a state prison, is now a considered considered contempt for the handsome in 1809 as a state prison, is now a considered considered contempt for the handsome in 1809 as a state prison, is now a considered considered contempt for the handsome in 1809 as a state prison, is now a considered considered contempt for the handsome in 1809 as a state prison, is now a considered contempt for the handsome in 1809 as a state prison, is now a considered contempt for the handsome in 1809 as a state prison, is now a considered contempt for the point in 1809 as a state prison, is now a considered contempt for the point in 1809 as a state prison, is now a considered contempt for the point in 1809 as a state prison, is now a considered content for the point in 1809 as a state prison, is now a considered content for the point in 1809 as a state prison, is now a considered content for the point in 1809 as a state prison, is now a considered content for the point in 1809 as a state prison, is now a considered content for the point in 1809 as a state prison, is now a considered content for the point in 1809 as a state prison, is now a considered content for the point in 1809 as a state prison, is now at the point in 1809 as a state prison, is now at the point in 1809 as a state prison in 1809 as a state prison the depot.

Dartmouth (dart'muth), a municipal because the content for the point in 1809 as a state prison the point in 1809 as a state prison the depot.

Dartmouth (dart'muth), a municipal borough depote for the citation in 1809 as a state prison.

Dartmouth (d

Dartford was the first place in Britain where a paper-mill was erected. Wat Tyler was a native of this place, and the insurrection known by his name broke out at Dartford. Pop. (1911) 23,609.

Dartmoor (dart'mör), an extensive History of the Venetian Republic, Life works are his Upland tract in England, of Sully, History of Bretagne, etc. in the western part of Devonshire, often called the Forest of Dartmoor, and belonging to the Duchy of Cornwall; reaching from Brent s., to Oakhampton N., Blackburn. Until about the middle of the 22 miles, with a breadth of about 20 last century Over Darwen was an insignificant village; now it is a populous and 180,000 acres. Cattle and sheep are fed

then to open quarrel, and finally to on the coarse grass during the summer deadly hate, which the murder of Rizzio, months. Several of the rugged granite to which Darnley was a party, only in-hills (here called tors) are of consider-creased. Mary affected, however, to be able height, Yes Tor rising 2050 feet reconciled to him, but could not long above the plain. Dartmoor prison, built conceal hat the highest of the handsome in 1800 as a state prison, is now a considerable of the handsome in the contempt of the handsome in the contempt for the contempt for

which such an explosion would cause. Strong circumstantial evidence points to Bothwell as the murderer, and, some think, to Mary as an accomplice in the crime.

Darrang (dur'rung), a district of Assam province, Hindustan, forming a portion of the upper valley of the Brahmaputra; area, 3418 sq. miles; pop. 337,313. Virgin forests cover a large portion of the region.

Darters (dar'ters), or SNAKE-BIRDS, footed birds of the pelican tribe, found near the eastern coasts of the tropical parts of America, and on the western coasts of the tropical case was won and the university organization dissolved. The college has remained a conservative institution, and has now about 100 instructors and 1200 studenly dart at their finny prey with unering aim (hence the name). From the serpent-like form of their head and neck, the head being scarcely thicker than the peack they are called anake-hirds.

serpent-like form of their head and neck, in 1767; died in 1829. He favored the the head being scarcely thicker than the neck, they are called snake-birds.

Dartford (dart'ford), a town of Engther of the codes and epistles of Horace into Indiana, county of Kent, on French verse. Napoleon discovered his the Darent, 15 miles southeast of London. Solities and rewarded him by various On the river are numerous paper, corn, official appointments of trust. In the and oil mills, a large foundry, and an extensive gunpowder manufactory, etc. (1806-09) he served with ability as a Dartford was the first place in Britain diplomatist and financier. He became where a paper-mill was erected. Was their minister of state in 1811, and was



Charles Darwin.

and did not return till October, 1836, Selection, etc. after having circumnavigated the globe. Dasheen Mr. Darwin came home with rich stores Dasheen Mr. Darwin came home with rich stores of knowledge, part of which he soon gave to the public in various works. In 1839 the married his cousin Emma Wedgwood, and henceforth spent the life of a quiet and henceforth spent the life of a quiet country gentleman, engrossed in scientific pursuits—experimenting, observing, recording, reflecting and generalizing. In 1839 he published his Journal of Researches during a Voyage round the searches during a Voyage round the characteristics. It is adapted for cultivation of Coral Reefs; in 1844 Geological Observations on Volcanic Islands, etc.; quires at least seven months to reach full maturity.

1848 Geological Observations in Routh America; in 1851 and 1854 his Monograph of the Cirrhipedia, and soon after the Fossil Lepadridæ and Balænidæ of Gress Britain. In 1859 his name attained its great celebrity by the publication of The Origin of Species by Means of Natural Selection. This work, secouted and derided though it was at first in certain quarters, may be said to have worked quarters, may be said to have worked grade marsupials found in Australia and

is cotton; other manufactures are paper, nothing less than a revolution in biologiiron castings, earthenware, etc. Pop. cal science. In it for the first time was
(1911) 40,344. given a full and satisfactory exposition
of the theory of evolution as applied to
an English naturalist, born
at Shrewsbury in 1809; died at Down, being explained on the hypothesis of natnear Beckenham, Kent, in 1882; was ural selection. The rest of his works are near Beckenham, Kent, in 1832; was ural selection. The rest of his works are the son of Dr. Robert Darwin and grandson of Dr. Erasmus Darwin. He was cumulated for the elaboration of this educated at Shrewsbury School, and at great theory. The principal are a treatise the universities of Edinburgh and Cambridge. He early devoted himself to the study of natural history, and in 1831 he was appointed naturalist to the surveying voyage of H.M.S. Beagle, commanded seent of Man and Variation in Relation by Captain (afterwards Admiral) Fitstry. The vessel sailed in December, 1831,

Movements and Habits of Climbing Plants (2d. ed., 1875); Insectivorous Plants (1876); The Power of Movement in Plants (1880); The Formation of Vegetable Mold (1881), the last containing a vast amount of information in regard to the common earthworm. Mr. Darwin was buried in Westminster Abbey. Abbey.

Darwin, Erasmus, an English physician and poet, was born in 1731; died 1802. His works include Zoonomia, or the Laws of Organic Life; Phytologia, or the Philosophy of Agriculture and Gardening. Charles Darwin was his grandson.

Darwinism (dar'win-izm), the views, especially regarding the origin and development of animals and plants, expressed in detail and advocated with much earnestness in the works of Charles Darwin. See Evolution, Natural

(da-sheen), a root vegetable of the genus Colocasia, of

of Asia. It consists of an external embarrass the local commerce with a pericarp, separable into three portions, change of day.

and covering a seed which is hard and Date-nlum the name given to several and covering a seed which is hard and horny in consequence of the nature of the albumen in which the embryo plant is buried. Next to the cocoanut tree teresting and useful of the palm tribe. Its stem shoots up to the height of 50 teresting and useful of the palm tribe. Its stem shoots up to the height of 50 and of nearly the same thickness throughout its length. From the summit it throws out a magnificent crown of large feather-shaped leaves, and a number of spadices, each of which in the female of the sake of its fruit, which is about the dates, each bunch weighing from 20 to 200 the sake of dates pounded and kneaded to
Tatholite (dath'o-lit), the siliceous 25 lbs. The fruit is eaten fresh or dried. Cakes of dates pounded and kneaded together are the food of the Arabs who traverse the deserts. A liquor resembling wine is made from dates by fermentation. Persia, Palestine, Arabia and the of Europe; also near Lake Superior. north of Africa are best adapted for the culture of the date-tree, and its fruit is in these countries an important article of food. It is now being introduced into California.

Tatholite (dath'o-lit), the siliceous borate of lime, a mineral of a white color of various shades found in Scotland and on the continent of Europe; also near Lake Superior. where it is used in the manufacture of boric acid.

Datia (dat'i-a), a native state in Bundelkhand, Hindustan, under the Central India Agency. Area, 911 California.

Tasmania, and so named in contrast to the the opossums of the New World (Didelphys), which have naked tails somewhat round he will have added twenty-four like rats. The ursine dasyure (Dasyūrus hours, and thus have gained a full day. ursinus) of Tasmania is about the size of a badger, but of a sturdier form, of a dull black color, carnivorous, and of If he goes round opposite to the sun he so savage a temper as to have gained for itself the alternative name of Diabölus shorter, so that on completing the ursinus, or Tasmanian devil. Formerly round he has lost a day's time unconit was most destructive to flocks and poultry yards, but is now in the inhabited districts nearly extirpated. The various starting. To avoid this complication a species of the genus have much the same nature and habits as the European polecat.

Dataria (da-tā'ri-a), the papal office of the chancery at Rome, of the chancery at Rome, latin, datum, given), that addition to a writing which specific the sun and adds a little to the the polyeting the length of each day. On completing the round he will have added twenty-four the will have added twenty-four the will be Monday to him, but it is Sunday to the people he had left. Sunday to the people he left when districts nearly extirpated. The various starting. To avoid this complication a species of the genus have much the siline promote the people he left when districts nearly extirpated. The various starting. To avoid this complication a species of the genus have much the imbabited in the people had left.

Data of the chancery at Rome, Monday to the people he left when districts nearly extirpated. The various starting. To avoid this complication a meridian line has been chosen, on crossing which the traveler changes his rectoning. If it is Tuesday, when he crosses this line going westward he calls it Wednesday. Thus an awkward complication is avoided. The date-line has been fixed at the 180° meridian from Date (Latin, datum, given), that adcation is avoided. The date-line has dition to a writing which specifies the year, month and day when, Greenwich. This line has the advanand usually the place where, it was given tage of traversing water through nearly nes the year, month and day when, and usually the place where, it was given tage of traversing water through nearly or executed; also the time when any event happened, when anything was where it crosses island masses. After transacted, or when anything is to be done.

Date, the fruit of the date-palm or the tree itself, the Phanix dacture they may have the same day as the tree itself, the Phanix dacture they may have the same day as an article of food by the natives of of islands belonging to Great Britain are Northern Africa and of some countries reached it bends to the east, so as not to of Asia. It consists of an external embarrass the local commerce with a

Date-plum, the name given to several species of Diospyros. a

the Central India Agency. Area, 911 Date-line, International, the line sq. miles; pop. 173,759.—Datia, the chief at which the date of the town of the state, is situated 125 miles day changes on going around the globe. S. E. of Agra, and contains a large num-A man who travels around the earth in ber of handsome houses, the residences the direction of the sun's movement gains of the local aristocracy. Pop. 24,071.



Thorn-apple (Datura Stramo-nium).—1, Root. 2, Seedvessel out across.

namely.—1, Root. and D. Tatila, and C. Tatila, and D. Tatila, departments of the several colonies or states.' It was organized in 1890 at Washington, D. C. Since their organization they have greatly extended their activities in all departments of civil and social life. The membership of the society in 1914 numbered 109,916, with chapters in China, Degan to assist Buffon in the preparation of his great work on natural history, the anatomical articles of which were prepared by him. In 1745 he was appointed curator and demonstrator of the cabinet of natural history in Paris, of which he had charge for nearly fifty years. He seendants of men who served in the Conbecame professor of natural history in federate army or navy or otherwise the College of France in 1778. Among aided the cause of the Southern Conhis publications are: Instructions to Shepherds, A Methodical View of Minpeleon.

The beam (da'be-ni). Charles Giles is to bring young women within the cause of the protestant Episcopal Church, organized in 1885. Its purpose to bring young women within the contributed is to bring young women within the cause of the Southern Conhistory, the contributed is the cause of the Protestant Episcopal Church, organized in 1885. Its purpose the contributed is to bring young women within the contributed is to bring young women within the contributed is the cause of the contributed is to bring young women within the contributed is the cause of the contributed is to bring young women within the contributed is the cause of the contributed is t

Datiscin (da-tis'sin), a substance tist, born in 1795; died in 1867. For yielded by the bastard hemp, many years he was professor of chembrais of the south of ford, and wrote several esteemed scienturope, where it is used as a substitute for Peruvian bark, and for making cordage. Datiscin (CaHmO1) is extracted from the leaves, and is used as a yellow dye.

Dative (da'tiv; L. datirus, from dare, to give), in grammar, a term applied to the case of nouns which usually follow verbs or other parts of speech that express giving, or some act directed to the object, generally indicated in English by to or for.

Datura (da-ti'ra), a genus of plants, tout much success, till he discovered his powers as a novelist, when he speedily rose to the highest rank. His more celevated works are Fromont jeune et Rister Afné (1874); Jack (1876); Le ral species, all having poisonous properties and a disagree-tel (1883). All his most important strong narcotic works have been translated into English of new ployed as as a novelist, and was one of the best-remedy for neu-known political writers of the French remedy for neu-known political writers of the French republican party. ployed as a sa novelist, and was one of the best-remedy for neu- known political writers of the French ralgia, convul- republican party.

sions, etc. The Daughters of the American

D. Stramonium, Revolution, a society composed of and D. Tatula, Revolution, women each of whom

Daubeny (da'be-ni), Charles Giles is to bring young women within the Bridle, an English scien-influence of the church and to cooperate

or was a member of the Continental or Bonte-quagga. State congresses or a congressional offi-

in the Netherlands, he was made Knight of the Golden Fleece. His skilful pastage of the Rhine, and his marriage with the Countess of Fux, a favorite of dramas, masques, addresses, and the Countess of Fux, a favorite of dramas, masques, addresses, and the post of master-general of the ordinance, travesty of Shakespere's Tempest, made and in 1757 that of general field-marshal. In 1757 that of general field-marshal in conjunction with Dryden. He was That same year he defeated Frederick the Great at Kollin, and soon after took Breslau. In 1758 he again defeated Frederick at Hochkirch; but he was last thoroughly defeated by Frederick at Torgau in 1759. He afterwards became president of the aulic council.

Tormhin (da'fin), the title of the Woolen goods, agricultural implements

eldest son of the king of France prior to the revolution of 1830, gines, locomotives, machinery, washing said to be derived from the dolphin, the crest of the lords of Dauphiny. The looms, and pressed steel cars, etc., are name was assumed towards the middle of the ninth century by the lord of Dauphiny, which province was bequeathed by Humbert II to the king of France in 1349 on condition that the heir of the throne should bear the title of Dauphin of Viennois.

Dauphiny (da-fin-ē; Dauphiné), one of the ancient provinces of France, which comprised the modern departments of the Isère, the Hautes The life of David is recorded through Alpes, and part of that of the Drôme. the first and second books of Samuel The capital of the whole was Grenoble.

with pastors to that end. (It is distinct from the 'King's Daughters.')

Daughters of the Revolution Africa, particularly to the north of the organized in 1891, membership being pale brown, with grayish white on the confined to women lineally descended abdomen and inner parts of the limbs. from 'a military or naval or marine officer, soldier, sailor, or marine,' in the Revolutionary service, or from one who signed the Declaration of Independence, or Bonte-quagaga.

Davenant (dav'en-ant), SIR cial assisted in the winning of American independence; with the limitation that these remained loyal to Congress or States throughout the war.

LIAM, an English poet independence; with the limitation that and dramatist, born at Oxford in 1605; these remained loyal to Congress or States throughout the war.

LIAM, an English poet index in 1688. His father kept the Crown Inn, a house at which Shakespere used to States throughout the war.

Daulatabad (dou-lat-ă-bād'), a town stop on his journeys between London of India, in the Niand Stratford. He was early introduced zam's Dominions (Haidarabad), Deccan; into court life through his service with 170 miles N. E. of Bombay; the fortress, the Duchess of Richmond and Lord also known by the name of Deogiri, was Brooke; and having produced several from remote antiquity the stronghold of the rulers of the Deccan. Pop. 1243.

Daun (doun), Leopold Joseph During the civil war he fought on the royal side, was made a lieutenant-gentrian general, was born in 1705, and eral, and received the honor of knisht-Daun (doun), Leopold Joseph During the civil war he fought on the Maria, Count von, an Austrian general, was born in 1705, and eral, and received the honor of knight-died in 1766. He served in the Turkish hood. On the decline of the royal cause war in 1710, as major-general in Italy he retired to France; but attempting to in 1734, and distinguished himself at sail for Virginia, his ship was captured, the battle of Krozka in 1737, and the and he escaped death through the good capture of Dingelfingen in 1740. In offices of John Milton, a kindness he was 1748, after serving against the French able to repay after the Restoration in the Netherlands, he was made Knight Under Charles II Davenant flourished in of the Golden Fleece. His skilful pas-

came president of the aulic council.

Dauphin (da'fin), the title of the Woolen goods, agricultural implements eldest son of the king of and machines, pottery, carriages, gas enforce prior to the revolution of 1830, gines, locomotives, machinery, washing the desired from the delphin the machines nearly buttons, metal wheels.

book of Psalms, a large portion of which the Paris Conservatoire in 1830, and be-

book of Psaims, a large portion of which has been attributed to him (see Psaims), as me an ardent disciple of St. Simon, Enalso contains frequent allusions to incidents in his life. He reigned from 1055 1822, with a few companions, he went so to 1015 a.c. according to the usual chronology, but recent investigating 100 per control of the property of the control of the psain of the standard investigating 100 per control of the psain of the Israelites rose to the height of the Israelites age of their nation's history.

David I, King of Scotland, son of David J, MacQuas Lours, the founder ander I in Israelites rose the Israelites rose the Israelites rose and ideas into his native land. He twice invaded England to support his niece and ideas into his native land. He twice invaded England to support his niece was a violent Jaco-dleid at Carlisde, and was succeeded by bin, and wholly devoted to Robespierre his grandson MacQuas and the Israelite of the Standard (1138). He dealed the Israelite of the Standard (1138). He adjusted the bishopric was appointed first painter to Napoleon of Dunkeld, Moray, Aberdeen, Rose, Cathness, Brechin, Dunblane and Galtinos, Proceeded to the throne in 1329; did not be church procured for him the popular title of saint, but the endowments so the crown; he was backed by Edward In Fance, born in Cathespier, and the popular title of saint, but the endowments so the crown; he was backed by Edward In Israelite of the Stories of Dunkeld, Moray, Aberdeen, Rose, Ordon Stories, Israelite of the Stories, Israelite of the Stories of the Stor has been attributed to him (see Psalms), came an ardent disciple of St. Simon, En-

connects, centerly runous. Fop. of township 5398.

Davidson, George, astronomer, born at Nottingham, England, in 1825, and brought to the United States in childhood. He was appointed on the United States coast survey in 1845, and had charge of the transit of various expeditions to Japan in 1874, and New Mexico in 1882. He completed the transit factors of many thousands of stars. In 1873 he became professor in the University of California Academy of Sciences in 1874. In 1898 he became professor of geography in the University of California Academy of Science and of many foreign learned institutions.

Davies (da'vês), Sie John, an English poet and lawyer, born in 1570; died in 1626. In 1603 he was appointed solicitor-general for Ireland, and soon after attorney-general. He was knighted in 1607, returned to the English

soon after attorney-general. He was knighted in 1607, returned to the English Parliament in 1621, and obtained the dignity of lord chief-justice in 1626. He wrote Orchestra, Aymns to Astrea,
Nosce Teipsum, a metaphysical poem and
his best-known work; he is also the
author of a work on the political state the frontier. At the latter date he be-

distinction in the French army. In 1599 he entered the Venetian service.

Davis, Andrew Jackson, clairvoyant, born in Orange Co., New York, doctrine of slave rights. On the outin 1826. He developed in youth remarkable powers. An uneducated boy, he wrote, under clairvoyant influence, tomes used president of the Southern States, continuate of philosophical speculations and full of philosophical speculations and learned disquisitions. These were published as Principles of Nature, Her Divine Revelations, The Great Harmonia (4 vols.), etc. They advocated the doctrines of spiritualism. He practiced for many years as a clairvoyant healer of the sick. He died in 1910.

Davis, Cushman Kellogg, legislator, born at Henderson, New York, he conducted three expeditions for the

writings are no longer extant. His life in 1834; died in 1900. He removed to was written by Ricemarch, bishop of St. Wisconsin, studied law, and served in the David's in the eleventh century.

David's, St., a decayed episcopal city sota legislature in 1867, was district sota legislature in 1867, was district of Wales, County Pembroke, attorney of that State 1868-73, and near the promontory of St. David's Head, governor 1874-75. Was United States once the metropolitan see of Wales. Senator 1877-1900, and served on the Within a space of 1200 yards in circuit Paris Peace Commission of 1898.

within a space of 1200 yards in circuit Faris Feace Commission of 1838.

are the cathedral, chiefly of the twelfth century, with a finely decorated rood-loft, the episcopal palace, the ruins of St. napolis, Maryland, in 1817. As a membary's College, and other ecclesiastical ber of Congress he was a brilliant oracedifices, chiefly ruinous. Pop. of township 5398.

The strength of the was unfaltering in fidelity to the Union and as extrapolate advector of Union and as extrapolate devices and the strength of the Union and as extrapolate devices of the strength of the Union and as extrapolate devices of the strength of the Union and as extrapolate devices of the strength of the stre



Davila (då'vi-lå), Enrico Caterino, Mississippi. He was elected to Conan in 1576; died in 1631. Brought of the Mexican war he left Congress and up in France, he for a time served with distinction in the French army. In 1599 he entered the Venetian service.

Davis Andrew Jackson deignount.

story writer, was born at Philadelphia in ernment 1864, entered newspaper work in 1887 the Charles and began his war-correspondent career reporting the Græco-Turkish war of 1887. He served in the Cuban insurrection, the Spanish-American war, the South African wars, the Russo-Japanese war, the Balkan wars, and the first years of the great European war. He was in Belgium when the Germans invaded that country and was captured as a spy by the Teutons, narrowly escaping with his life. Later he went to Salonika and Serbia. He returned from Europe early in 1916 and began work on a new book, With the French in France and Salonika, but the terrific strain he had undergone sapped his strength and he died suddenly. April Spanish-American war, the South African his strength and he died suddenly, April 13, 1916, only a few weeks after his re-turn home. He was the author of Soldiers of Fortune, Gallagher and Other Stories, The Bar Sinister, etc. REBECCA HARDING DAVIS, his mother, was also a writer of magazine stories. She was born at Washington, Pa., 1831; died 1863.

Davis Strait, a narrow sea which Greenland from Baffin Land, and unites Baffin Bay with the Atlantic Ocean; lat. 60° to 70° N.

Davits (davits), two projecting arms of wood or iron on the side or stern of a vessel, used for suspending or lowering and hoisting the boats by means of sheave and pulley. They are fixed so as to admit of being shipped

fering from chest diseases.

discovery of the northwest passage. In alry of the army of Italy in 1800. He the first he coasted round the south of received a marshal's baton in 1804, led Greenland and sailed across the strait the right wing at Austerlitz in 1805, and that now bears his name into Cumberland Gulf, and in the third he sailed north through Davis Strait into Baffin Eckmthl and Wagram; was made Gov-Bay. He also accompanied the expedition of Cavendish to the Pacific in Russian campaign of 1812, and was 1591-93, and made several voyages to the East Indies.

Davis, RICHARD HARDING, war correspondent, novelist and shortstory writer, was born at Philadelphia in 1807 armies. In 1819 he was a member of the French part of the graph of the graph of the French armies. In 1819 he was a member of the french service of the graph of In 1819 he was a member of

the Chamber of Peers.

Davy (dā'vi), Sir Humphry,
tingvicked Fredick cher; tinguished English chemist, was born at Penzance, in 1778; died at Geneva in 1829. After having received the rudiments of a classical education he was placed with a surgeon and apothecary,



Sir Humphry Davy.

and early developed a taste for scientific experiments. So successful was he in his studies that he was appointed professor of chemistry in the Royal Institution at the age of twenty-four. In 1803 he was chosen a member of the Royal Society. His discoveries with the galvanic battery, his decomposition of the earths and alkalies and ascertaining Davos (da-vos), an elevated valley of their metallic bases, his demonstra-land, Canton Grisons, containing several atic acid (to which he gave the name of villages; a winter resort of persons sufreputation; and in 1810 he received the Pavout, or Davoust (di-vö), Louis prize of the French Institute. In 1814 Nicolas. Duke of Auerstädt and Prince of Eckmühl, marshal of that body. Having been elected proand peer of France, born in 1770 at fessor of chemistry to the Board of Annoux, in Burgundy; died in 1823. He Agriculture he delivered lectures on entered the army at the age of seventeen; served with distinction under Ducen; served with distinction under Ducensive years. The numerous accidents mouriez, and at the passage of the Rhine, in 1797. He went with Bonaparte to to enter upon a series of experiments on Egypt in 1798, and commanded the cav-

ment, The Rainbow, Rainbow at Sea and The Pool below London Bridge.

Dawson, adian geologist, born at two passages of the sun across the meridical prictou. Nova Scotia. in 1820; died in 1899. Educated at Pictou and Edinburgh 4 minutes longer than the former, owniversity, he early turned his attention to geology, having published papers on the subject when not much over twenty. He accompanied Sir Charles Lyell when examining the geology of Nova Scotia in 1842. In 1850 he became superintendent of education for Nova Scotia, and in 1855 principal and professor of natural history, in McGill

The length of the days and nights at any place varies with the latitude and season of the year, owing to the inclination of the earth's axis. In the first place, the days and nights are equal (twelve hours each) all over the world on the 21st of March and the 21st of Santamber, which dates are called the September, which dates are called the vernal (spring) and autumnal equinoxes cernal (spring) and autumnal equinoses (Lat. equus, equal; nox, night). Again, the days and nights are always of equal length at the equator, which, for this reason, is sometimes called the equinoctial line. With these exceptions, we find the difference between the duration of the day and the night varying more and more as we recede from the equator. This will be easily understood from a consideration of the accompanying figure, which represents

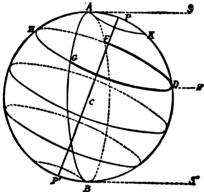


Diagram to Illustrate the Differences in the Length of Day and Night.

the position of the earth at the northern represent the sun's rays, then the vertical circle AFBG will be the circle of illumination—that is, the line which separates the illuminated and dark hemispheres of the earth. Consider a place F. As the earth turns round it would describe a circle FROM the greater part of scribe a circle FDGH, the greater part of which, FDG, is performed in the sunlight, and the smaller part, GHF, in the dark. In other words, the day for the dark. In other words, the day for the a person at Wellington may date a letter place F would be longer than its night. 9 o'clock A.M. June 26, while another It will be also seen that for any place writing at the same instant at Honolulu within the Arctic circle AK the sun dates his 11 o'clock A.M. June 25.

does not set, while in the Anarctic Day, Thomas, an ingenious writer, of a benevolent, independent, but earth is in this position. At the northern winter solstice the reverse of all this 1748; killed by a fall from a horse in is the case—the Arctic circle never 1789. His father, who was a collector of comes into the light area, and places the customs, died while he was an infant,

day at any time is the equation of within the Anarctic circle never enter into the dark. From this it will be seen that at both poles the year consists of one day of six months' duration, and one night of the same length.

The Babylonians began the day at sunrising; the Jews at sunsetting; the Egyptians and Romans at midnight, as do most modern peoples. The civil day in most countries is divided into two portions of twelve hours each. The abbretions of twelve hours each. The abbreviations P. M. and A. M. (the first signifying post meridiem, Latin for afternoon; the latter ante meridiem, foreneon) are requisite, in consequence of this division of the day. The Italians in some places reckon the day from sunset to sunset, and enumerate the hours up to sunset, and enumerate the hours up to the Chinese divide it into twenty-four; the Chinese divide it into twelve parts of two hours each. For astronomical purposes the day is divided astronomical purposes the day is divided into twenty-four hours instead of two parts of twelve hours. Formerly it began at noon, but since January 1, 1885, the day of twenty-four hours has begun at midnight at Greenwich Observatory; and this reckoning is now generally adopted for astronomical purposes elsewhere than at Greenwich. The Greenwich day practically determines the date for all the world. At midday at Greenwich the world. At midday at Greenwich the date (day of the week and month) is everywhere the same, though there are all possible differences in naming the hour of the day. But midday at Greenwich is the only instant at which we ever have the same date all over the world. The meridian of midnight, which is then at 180° E. or w., goes on revolving, gradually bringing a new date to every place to the west of that line, but obviously not bringing that new date to obviously not bringing that new date to the places immediately to the east of that line till twenty-four hours after. From this it follows that whereas places on the one side of the globe never have a different date except when midnight lies between them. places on the opposite side of the globe, and on different sides of the meridan of 180° E. or W., never have the same date except when midnight lies between them. The actual difference of time between Wellington in New Zealand and Honolulu in the Sandwich Islands is only about 2 hours; yet a person at Wellington may date a letter 9 o'clock A. M. June 26, while another writing at the same instant at Honolulu.

leaving him a considerable fortune. He place of great industrial activity, a towas educated at the Charter House and bacco center, a center of railway comat Oxford. In 1765 he was called to the munication, and in the variety and extent

day. See Bookkeeping.

Dayfly, the popular name of those tion of the Lord's Supper, and pronouncneuropterous insects which ing the absolution. In Presbyterian
belong to the genus Ephemera. They are churches the deacon's office is to attend
so called because, though they may exist to the secular interests, and in Indein the larval and pupal state for sevpendent churches it is the same, with the
eral years, in their perfect form they addition that he has to distribute the
exist only from a few hours to a few bread and wine to the communicants.

Deacon, in Scotland, the president of
ing their species and then dying.

Eastern Europe, two species of which Glasgow still continues to be a constitu(H. flava and H. fulva) are grown in gardens. They have long, radical leaves, and a branched, few-flowered scape, with large, handsome blossoms, the segments of which are united into a tube.

Segments of the trades in Edinburgh and Conventor of which Classification of the town council.

Deaconess (de'kn-es), (1) a female deacon in the primitive church; (2) the term for a kind of quasi which are united into a tube.

Daysman, in English law, an arbiand other Protestants.

This term is antiquated. See Book of Job.

Days of Grace, are days allowed for by a rope or an iron band, used to extend payment of a the shrouds and stays, and for other promissory note or bill of exchange after purposes. it becomes due.

city of Ohio, capital of

bar. He renounced most of the in- of its manufactures it stands in the front dulgences of a man of fortune, that he rank of western towns of its size. Its might bestow his superfluities upon commercial interests are also large. In those who wanted necessaries; and he March, 1913, Dayton was swept by a also expressed a great contempt for forms heavy flood; but the city immediately set also expressed a great contempt for forms heavy flood; but the city immediately set and artificial restraint of all kinds. He to work to repair the loss. Pop. 116,577. wrote, in prose and verse, on various subjects, but the History of Sandford and Merton is the only work by which his name is perpetuated.

Day, WILLIAM RUFUS, statesman, born at Ravenna, Ohio, in 1849. the feasts of Christians, and distribute He was admitted to the bar in 1872, be-bread and wine to the communicants, and He was admitted to the bar in 1872, became a judge in Ohio, and of the United to minister to the wants of the poor. States District Court in 1889. He was In the Roman Catholic Church the deacon appointed assistant Secretary of State in 1897, became Secretary of State in 1898, and resigned to become chairman of the Paris Peace Commission. He has been an associate justice of the United States Supreme Court since 1903.

Daybook, a journal of accounts; a book in which are recorded the debts and credits or accounts of the debts and credits or accounts of the Christian priesthood except conday. See Bookkeeping. Dayfly, the popular name of those tion of the Lord's Supper, and pronounc-

Daylight Saving, a movement to the chairman of its meetings and signs its of daylight for working hours by setting Reform Act the deacons of the crafts, or the clock ahead one hour in the summer incorporated trades, in royal burghs, season. It came into force in the United formed a constituent part of the town-States in April, 1918. See United States. council, and were understood to represent Day-lily, the popular name for a the trades as distinguished from the mercallis), natives of temperate Asia and convenor of the trades in Edinburgh and Eastern Europe, two species of which Glasgow still continues to be a constituent.

Dead-letter, a letter which lies for a certain period uncalled Dayton, a city or Unio, capital of Montgomery county, at the for at the post-office, or one which cannot confluence of the Mad and Great Miami be delivered from defect of address, and rivers, 60 miles N.E. of Cincinnati. It which is sent to the general post-office to has abundant waterpower, is on the line be opened and returned to the writer.—
of the Miami and Eric Canal, and is a Dead-letter office, a department of the general post-office where dead-letters are shores. examined and disposed of.

those of the nettle, though they have no stinging property. There are several spestinging property. There are several species found in Britain (and now also in N. America), as the white dead-nettle (L. album), the red (L. purpurĕum), and the yellow (L. Galeobdolon).

Dead Reckoning (ded rek'on-ing), sion when these cities were destroyed.

Dead Reckoning (ded rek'on-ing), sion when these cities were destroyed.

Deaf and Dumb, or Deaf Autres, persons both deaf a ship's place at sea without any observation of the heavenly bodies. It is and dumu, the obtained by keeping an account of the deafness which has either existed obtained by keeping an account of the deafness which has either existed obtained by keeping an account of the deafness which has either existed obtained of the surple of the surple of the sense of hearing to enable them the causes of the sense of hearing to enable them the causes of the sense of hearing to enable them the causes of the sense of hearing to enable them the causes of the sense of hearing to enable them

shores. The water is nauseous, due to magnesium chloride, and so dense that the examined and disposed of.

Dead-lights, are strong wooden or magnesium chloride, and so dense that the Deadly metal shutters fitted on the outside of the cabin windows of a beauting a morth end it attains a maximum depth vessel, so as to close them tightly in bad weather.

Deadly Nightshade.

See Belladonna.

See Aloyonum.

Dead-nettle, the common name of the species of plants of the genus Lamium, nat. order Labiatæ, stood, and was then merely traversed by from the resemblance of their leaves to those of the nettle, though they have no the date of having the plain, in which these cities the species of the plain, in accordance with this theory, was supposed to hold on its was a fertile plain, in which these cities stood, and was then merely traversed by the Jordan, which, in accordance with this theory, was supposed to hold on its course to the Red Sea. This theory has been shown to be highly improbable. Eminent critics are of opinion that the cities of the plain stood on the lower part of the lake, which received an extension when these cities were destroyed.

distance which the supplied log, and of her course steered by the compass, and by rectifying these data by simply because they may be of the sense of hearing to enable them of the sense of hearing to enable them to imitate sounds. Among the causes ments.

The logical supplied in the supplied in the sense of hearing to enable them to imitate sounds. Among the causes assigned for congenital deafness are consumering to enable them to imitate sounds. Among the causes assigned for congenital deafness are consumering to enable them to imitate sounds. Among the causes assigned for congenital deafness are consumering to enable them to imitate sounds. Among the causes assigned for congenital deafness are consumering to enable them to imitate sounds. Among the causes assigned for congenital deafness are consumering to enable them to imitate sounds. Among the causes assigned for congenital deafness are consumering to enable them to imitate sounds. Among the causes assigned for congenital deafness are consumering to enable them to imitate sounds. Among the causes assigned for congenital deafness are consumering to enable them to imitate sounds. Among the causes assigned for congenital deafness are consumering to enable them to imitate sounds. Among the causes assigned for congenital deafness are consumering to enable them to imitate sounds. Among the causes assigned for congenital deafness are consumering to enable them to imitate sounds. and a great ore reducing center. It is ing pregnancy, etc. Acquired or acan important trading and supply point. cidental deafness, which occurs at all Pop. 3653. Pop. 3653.

Dead Sea (Latin, Lacus Asphaltites; Arabic, Bahr Lut, 'the Sea hydrocephalus and other cerebral affectof Lot'), called in Scripture 'Salt Sea,' a fever, which is somewhat apt to leave celebrated lake in Asiatic Turkey, near the south extremity of Palestine, south of Syria. The north extremity is 25 miles of Jerusalem and 10 miles southeast of the throat extending to the infamomatory state of the throat exte depression through which the Jordan want of words, oblige the deaf-mutes to flows, that river entering it at its north observe and imitate the actions and exflows, that river entering it at its north extremity. It receives several other tributaries, but has no outlet. The surface is of mind and of feeling, to indicate objects 1312 feet below the level of the Mediterranean, and 600 feet below Lake Tiberias, by their appearance and use, and persons which the Jordan issues. It lies their actions by direct imitation. In this deeply imbedded between lofty cliffs of naked limestone, its shores presenting a dialect of that universal language of scene of indescribable desolation and solitude, encompassed by desert sands and bleak, stony, salt hills. Sulphur and rockbands force and clearness to the finest

agers and the natives of newly discovered countries. It is employed by many savage tribes to supply the paucity of expression in their language and to communicate with other tribes. Among some of the Indians of North America it exists as a training them to watch the lips of the highly organized language. Such a means of communication is after all very imperfect, however, and various more perfect, however, and various more perfect systems have been devised to enable deaf-mutes to communicate with one another and with the rest of mankind, and handed, in which the letters are formed with the fingers of one hand. Particular through the labors of Samuel Heinicke, sufficiently tested. the great upholder of the vocal or articulatory system, which is still retained at Vienna and throughout Germany. About twenty years previously be due simply to an accumulation of Thomas Braidwood had established near wax. If it comes on suddenly without Edinburgh in 1760 a deaf and dumb pain in a healthy person this is probably school on the articulating system, which was visited by Dr. Johnson during his cold in the head it is the result of a tour in Scotland. The first public cold or catarrh, and is likely to pass off institution in Great Britain for the in a few days. Attended by pain, ringgratuitous education of the deaf and ing in the ears, etc., some degree of dumb was founded at Bermondsey in inflammation is likely present. The most 1792 by the Rev. Messrs. Townsend intractable form of deafness comes on and Mason. From this establishment overy gradually and painlessly, and is conoriginated the London Asylum in Kent nected with disease of the middle ear. If Road, which was opened in 1807. In the through the labors of Samuel Heinicke, sufficiently tested.

effusions of the orator; in other words, the natural sign language. This language, in its elements, is to be found among all nations, and has ever been the medium of communication between voyagers and the natives of newly discovered agers and the natives of newly discovered institutions for the care and instruction

deaf-mutes to communicate with one another and with the rest of mankind, and thus to gain such an education as people in general possess. In 1648 John Bulwer published the earliest work in English on the instruction of the deaf and dumb. as are also real objects and models, This was followed by Dalgarno's Ars Signorum ('Art of Signs') in 1661, and Dr. W. D. Holder's Elements of Speech. The method of teaching Dr. W. D. Holder's Elements of Speech. recognize words, and in time to utter Dalgarno, who was a native of Scotland, them, by closely watching the motions of likewise published, in 1680, Didascalocophus, or the Deaf and Dumb Man's being instructed through diagrams as to Tutor, a work of considerable merit. To Dr. John Wallis, however, Savilian professor of mathematics at Oxford, is generally ascribed the merit of having been the first Englishman who succeeded in imparting instruction to deaf-mutes. In 1743 the practicability of instructing deafmutes was first publicly demonstrated in France by Pereira, a Spaniard, before the Academy of Sciences, which gave its testimony to the success of the method. About the same time the Abbé de l'Epée, who devoted his life and fortune to this subject, introduced a system for the deaf and dumb, which this system is founded are inwhich was taught with great success in the Royal Parisian Institution, and afterner of the vocal or the deaf-mutes was established at Leipzig, deaf and dumb has not as yet been through the labors of Samuel Heinicke, or Deaf ness, the partial or total inability

plank. The name deal is chiefly applied to boards of fir above 7 inches in width and of various lengths exceeding 6 feet. It iron miners) enjoy many ancient privaleges. In 1911 it contained a pop. of 54, 167 inches or less wide they are called battens, and when under 6 feet long they are called deal-ends. The usual thickness is 3 inches, and width 9 inches. The standard size, to which other sizes that of London and those of Scotland, The standard size, to which other sizes that of London and those of Scotland, The standard size, to which other sizes that of London and those of Scotland, The standard size, to which other sizes that of London and those of Scotland, the chief or head of a faculty in a registrar or secretary of the faculty in a deal is deal which is 1½ inches thick; slit a deal, half that thickness. Deals are exported from Prussia, Sweden, Norway, Russia and British North America.

Deal-fish, the Trackyptërus Arctious, sively compressed body, a denizen of the northern ocean and an occasional visitor to the coasts of Iceland, Norway and Britain; measures from 4 to 8 feet in length; is of a silvery color with minute scales, and has the dorsal fin extended along the whole length of the back. It is also known by the Scandinavian name vargement.

time much might probably be done to stay its progress. Deafness due to the disease of the nerve of hearing is usually dignitary, said to have been so called very intense, comes on suddenly or advances very rapidly, and is not easily prebendaries; but more probably because reached by treatment. As to other each diocese was divided into deaneries, causes of complete deafness see Deaf and each comprising ten parishes or churches, Dumb.

Deak (da-kk'), Ferencz, a Hungarian In England, in respect of their differstatesman, born of a noble ences of offices, deans are of several kinds. Magyar family, in 1803; died in 1876. Deans of chapters are governors over Deak (da-ak'), Ferencz, a Hungarian In England, in respect of their differences at the states are states and born of a noble ences of offices, deans are of several kinds. Magyar family, in 1803; died in 1876. Deans of chapters are governors over He was elected to the National Diet in the canons in cathedral and collegiate 1832, and became the leader of the liberal churches. The dean and chapter are the party. At the revolution of 1848 he became minister of justice, but retired when advice in affairs of religion, and they Kossuth obtained power. On the defeat of the patriots in 1849 he retired from concerns of his see. Rural deans were public life, and did not return till the Franco-Austrian war gave him an opportunity of serving his country. He jurisdiction in districts of his diocese reits regarded as the master-spirit of the move from his personal superintendence, movement by which the ancient independence of his country was restored in become almost obsolete. Dean of the 1867. Though the leader of the liberal chapter royal, in Scotland, is a title beparty, he constantly refused office, but no stowed on six clergymen of the Church change in the ministry was made with-

party, he constantly refused office, but no change in the ministry was made without his consent.

Deal (del), a seaport and watering place of England, County Kent, and which are now in the gift of the between the North and South Foreland, 72 miles E. by s. of London. Walmer Castle, Sandown Castle and Deal Castle are in the vicinity of the town. Boatbuilding and sail-making are carried on. There is a pier, but no proper harbor; the well-known Downs afford excellent anchorage. Pop. (1911) 11,297.

Deal, the division of a piece of timber and of various lengths exceeding 6 feet. If 7 inches or less wide they are called battens, and when under 6 feet long they have a possible deads.

Chartel 10 the revenues which formerly aportion of the chapel royal in Scotland, who receive from the crown.

Dean Forest, England, county of the town.

Dean Forest, England, county of the town.

West of the Severn, but is now reduced to about 22,000 acres, nearly one-half of which is enclosed, and was formerly appropriated for the growth of navy timber, but is now mainly covered with inhabitants (chiefly coal and the inhabitants (chiefly coal and

ertv.

ngs to be taken down.

Death (deth), is that state of a being, animal or vegetable, but more not only ceased to act, but have lost the susceptibility of renewed action. Death takes place either from the natural decay of the organism, as in old age, or from derangements or lesions of the vital organs caused by disease or injury. The signs of actual death in a human being signs of actual death in a human being duced naturalists have not been able are the cessation of breathing and of the beating of the heart; insensibility of the eye to light, pallor of the body, complete the inhabitants. It is regarded by the muscular relaxation, succeeded by a statue-like stiffness or rigidity which lasts from one to nine days; and decomposition, which begins to take place after the rigidity has yielded, beginning first in the lower portion of the body and gradually extending to the chest and face. What becomes of the mind or thinking principle, in man or animal, after death, is a matter of philosophical conjecture or religious faith.

That is dued naturalists have not been able satisfactorily to explain. It attacks becheve the inhabitants. It is regarded by the vulgar as the forerunner of death or other calamity.

Death Valley, California, between the Panamint and Funeral Mountains, its central part covered with salt and source of the dryest and hottest place in the United States, its temperature having reached the extreme of 122° F. It is so called because a party of emigrants perished there in 1849.

Death, Civil, of old the entire loss or forfeiture of civil rights; the separation of a man from civil society, or from the enjoyment of civil rights, as ***m*, a coleop-by banishment, abjuration of the realm, terous in sect

entering into a monastery, etc.

Death, Dance or, a grotesque allegorical representation in which the figure of Death, generally in the form of calling to one a skeleton, is represented interrupting a not her they people of every condition and in all make a peculiar dle ages for cemeteries and cloisters. These representations were common in Germany, and also in France, where they received the name of Danse Macabre, the derivation of which has been much disputed. The series attributed to Hans Holbein, the younger, was first published at Lyons in 41 plates, increased in a subsequent edition by 12 additional plates. A remarkable Dance of Death was the first claim for dividends, while the painted, in fresco, on the walls of the churchyard in the suburb of St. John at Basel, which was injured, in early times, by being washed over, and is now entirely destroyed. This piece has been ascribed to Holbein; but it has long since been proved that it existed sixty years before his birth.

Débacle (dâ'ha-kl), a sudden breaking up of ice in a river; used by geologists for any sudden outbreak of water, hurling before it and dispersing to water, hurling before and other débris.

Debenture (de-ben'tur), a deed-poll (declaratory deed) given by a public company in acknowledgment of borrowed money. It gives the holder the first claim for dividends, while the capital sum lent is usually assured on the security of the whole undertaking. With the deed, coupons or warrants for the payment of interest at specified dates are generally issued. Custom-house certificates of drawback are also termed debris.

He may order insufficient build- calculated at so many per thousand per annum.

Death (deth), is that state of a being, Death's-head Moth, the largest animal or vegetable, but more particularly of an animal, in which there lepidopterous insect found in Europe, and is a total and permanent cessation of all systematically known by the name of the vital functions, when the organs have Acheronic stropes. The markings upon have Acherontic stropos. The markings upon the the back of the thorax very closely reteath semble a skull, or death's-head; hence the ecay English name. It measures from 4 to 5 from inches in expanse. It emits peculiar vital sounds, somewhat resembling the speak. The ing of a mouse, but how these are proposing due of the stropic strong the seminary of the seminary contractions and the seminary contractions. duced naturalists have not been able satisfactorily to explain. It attacks bec-

considered the dryest and hottest place in the United States, its temperature having reached the extreme of 122° F. It is so called because a party of emigrants perished there in 1849.

Death-watch, the popular name of the Anobium tessels-

that inhabits the wood-work of houses. In



ath-Watch B tesselatum).—1, Natus as seen from underne

Débacle (dá'ba-kl), a sudden breaking up of ice in a river; used by geologists for any sudden outbreak of water, hurling before it and dispersing stones and other débait.

his birth.

Death-rate, the proportion of deaths of a town, country, etc. It is usually delivered the northern tribes from the

oppression of Jabin, and secured a peace a short cucumber, contains a sweet, yelof forty years' duration. The triumphal low, edible pulp.
ode (Judges, v) attributed to her is a
remarkable specimen of Hebrew poetry.

Decalogue (dek'a-log; Gr. deka, ten,
and logos, a word), the

came professor of political economy and manufacture and the second commandment in 1855 he published Industrial Resources has been united with the first, and the of the South and West.

Debreczin (de-bret'sin), a town of Decameron. See Boccaccio.
Hungary, on the edge of the great central plain, 113 miles E. of Decamps (de-kān), ALEXANI Budapest. Its houses are mostly of a the great central plain, 113 miles E. of Budapest. Its houses are mostly of a single story; the streets broad and unpainter, was born at Paris in 1803; paved. Among the principal edifices are killed while hunting at Fontainebleau in the Protestant church and college. Manu-1860. His paintings include pictures of factures are coarse woolens, leather, soap, Oriental scenery and character, historical tobaccounines cashe and enimals.

v ten years.

abalaces, growing on the Himalayas 7000 botanist and member of the French feet above the sea. It sends up erect Institute.

stalks like walking-sticks, bearing leaves

2 feet long. Its fruit, which resembles

Decandria (de-kan'dri-a). in the

remarkable specimen of Hebrew poetry.

De Bow (de bō), JAMES D. B., born ten commandments, which, according to at Charleston, South Caro-Exod., xx, and Deut., v, were given by lina, in 1820; died in 1867. An able God to Moses on two tables of stone. statistician, he founded in 1845 De Bow's The Jews call them the ten words. Jews Commercial Review, and in 1847 beand Christians have divided the ten comcame professor of political economy and mandments differently; and in some Catherentes in the University of Louisians olic catechisms the second commandment

tactures are coarse woolens, leather, soap, Oriental scenery and character, historical tobacco-pipes, casks, etc. A large trade is done in cattle. Pop. (1910) 92,729.

Debs, EUGENE VICTOR, labor leader and socialist, born at Terre Haute, Indiana, in 1855. A locomotive fireman, whose natural system of classification, he rose to be president of the American with some modifications, is the one still Railway Union, and in 1897 Chairman of generally used, was born at Geneva in the National Council Social Democracy 1778; died there in 1841. He took up the of America. While managing a railroad study of medicine at Geneva and Paris, strike in 1894 he was charged with conwere he attracted the notice of Cuvier spiracy and acquitted, but was imprisoned and Lamarck, whom he aided in various spiracy and acquitted, but was imprisoned and Lamarck, whom he aided in various for six months for contempt of court. He scientific researches. After returning to spiracy and acquitted, but was imprisoned for six months for contempt of court. He has been the presidential candidate of the Social Democracy since 1900.

Debt, National. See National Debt.

Debussy (dā-bit-sē'), Claude Achille, of the subject of his thesis the medical properties of plants. In 1804 he lectured in the College of France on vegetable physical strength of expression, and has introduced a caise. In this outline he laid the basis new system of color into music. His scale basis is of six whole notes, used are very numerous, include the operatic masterpiece, Pelléas et Melisande, La Mer, Ariettes oubliées, Images, incidental In 1816 he returned to Geneva, where music to King Lear, the Petite Suite, Trois Nocturnes, and many songs.

Decade (dek'ād; Latin, decas, decadis; of his favorite science by his lectures and is sometimes used for the number ten, or publications. His chief Graces Ragaria (12. Mer, Arger, Arger, and many songs. is sometimes used for the number ten, or publications. His chief works are: for an aggregate of ten. The term is L'Histoire des Plantes Grasses, Regni now usually applied to an aggregate of Vegetabilis systema Naturale (incompten years.

Decagon (dek'a-gon), in geometry, a figure of ten sides.

Decaisnea (de-kā'nō-a), a genus of Naturalis, the latter completed by his son plants, nat. order Lardizany, the tenth class of plants.

guillotine.

portant towns and fortresses. Domitian Decapoda (de-kap'o-da; Gr. deka, agreed to pay him a yearly tribute, which ten, and pous, podos, a was continued by Nerva, but refused by foot).—(1) The highest order of crustaceans, so called from having five pairs of alus, to escape falling into the hands legs. They are subdivided into Brachyura, the short-tailed decapods or crabs; Macrura, or long tailed, including the shrimp, lobster, prawn, crayfish, etc.; the Latin decem, ten, because in the Romand Anomura, of which the hermit-crab man year instituted by Romulus it contains an example. (2) One of the two stituted the tenth month, the year between is an example. (2) One of the two stituted the tenth month, the year be-divisions of the dibranchiate cuttle-fishes ginning with March. In December the (the other being the Octopoda). They sun enters the tropic of Capricorn, and have two arms longer than the other passes the winter solstice. have two arms longer than the other passes the first in the tea cight, and bear the suctorial discs only at Decemvirs (de-sem'vers), the tea the extremities.

Decapolis (de-kap'o-lis), a district of solute authority in ancient Rome (a.c. ancient Palestine contain-451-449). See Appius Claudius. ing ten cities, partly on the east, partly Deciduous (de-sid'ū-us), is a term apon the west of the Jordan.

The perhaps a general title of honor borne by any, the tenth class of plants. The perhaps a general title of nonor borne by flowers have ten stamens, and one, two, them. One of them distinguished him-three, or more pistils. It includes the self by his opposition to the Roman arms pink, Lychnis, Saxifrage, etc.

Decapitation (de-kap-i-tā'shun), beheated and killed Appius Sabinus, the ishment inflicted by the sword, ax, or Roman governor, and captured many important towns and fortrages. Demitian portant towns and fortresses. Domitian

on the west of the Jordan.

Decastyle (dek'as-til; Gr. deka, ten, and stylos, a column), a to indicate their annual fall. A tree of portice or colonnade of ten columns.

Decatur (de-ka'ter), a city, capital of Macon Co., Illinois, 39 thick the leaves fall annually is called a deciduous tree, and the same term is applied to the leaves themselves. The miles E of Springfield. It has ironworks, flour and cereal mills, and many other industries. It is an important railroad center and a place of considerable trade. Pop. 31,140.

Decatur, Stephen, an able American naval commander, born in 1779; killed in a duel in 1820. Among the chief exploits of his life were the burning of the frigate Philadelphia under the weights, measures, or money in which the unit is always multiplied by 10 or

1779; killed in a duel in 1820. Among the chief exploits of his life were the burning of the frigate Philadelphia under the the unit is always multiplied by 10 or guns of the forts of Tripoli; the capture some power of 10 to give a higher defect the British frigate Macedonian in nomination, and divided by 10 or a power 1812; his attempted escape from the of 10 for a lower denomination. This blockade of New York harbor, 1813-14; system has been rigidly carried out in and his chastisement of the Algerines, France in all its weights and measures, 1815. He was reproported for his cool in and the principle obtains in the colors. blockade of New York narbor, 1810-14; system has been rightly carried out in and his chastisement of the Algerines, 1815. He was renowned for his cool integrity and great resolution.

Decazeville (dê-käz-vēl), a town of France, dep. Aveyron, with coal and iron mines and large fromworks. Pop. (1906) 9749.

Deccan (dek'an: Sanskrit, Dakshins, the south), a term locally dek'an: Sanskrit, Dakshins, the south), a term locally decametre is to say, the unit multiplied by 10, 100, 1000, 1000, 10,000, the French, in their make use of the prefixes déca, kecto, kilo, myria, derived from the limited to the territory of Hindustan lydragenerally understood to include the whole country south of the Vindhya To express lower denominations, that is, Mountains, thus comprising the Presidency of Madras and part of Bombay, Hyderabad, Mysore, Travancore and other native states.

Decebalus (de-seb'a-lus), the name several Dacian kings, or system is the linear measure, the unit of system is the linear measure.

which is the mètre, supposed to be the enemy's goods, with the exception of ten-millionth part of a quadrant of the contraband of war; (3) neutral goods, exearth's meridian (39.37 inches). The cept contraband of war, are not liable to square of 10 mètres, or square décamètre, capture under an enemy's flag; and (4) square of 10 mètres, or square décamètre, called an are, is the unit of surface measure. The cube of the tenth part of the mètre, or cubic décimètre, called a litre, is the unit of liquid capacity. The cube of the mètre, called a stère, is the unit of liquid capacity. The cube of London, an instrument agreed upon, of solid measure. The weight of a cubic centimètre of distilled water at 39.2° rahr. (4° Centigrade), called a gramme, is the unit of weight. The unit of money is the franc, which is divided into décimes american Continental Congress on July and centimes.

Thacima (de-si-mā'shun), the se-

Decimation (de-si-ma'shun), the selection of the tenth man of a corps of soldiers by lot for punishment, practiced by the Romans. Sometimes every tenth man was executed; at length the reasons for this act, which sometimes only one man of each company, the tenth in order. The term is treatment of the colonies by the king frequently used in a loose way for the destruction of a great but indefinite proportion of people, as of an army or inflations of a country.

The cine (de-she-us), C. Messius Quin
Jefferson, as member of a committee appointed for the purpose, and declared that the united colonies of America were the united colonies of this act, which was based on the unjust and oppressive and parliament of England.

(de-klen'shun), in grammar, the aggregate of the inflections or changes of form which nouns, pronouns, and adjectives receive

Decker, Thomas.

Decker, Thomas. See Dekker, Thomas.

Declaration (de k-la-ra's hun), an avoid of formal statement; especially a simple affirmation at some and cutting the equator at right angles, are called declination, dividing the equator into twenty-four arcs of 15° each, are called nor circles or horary law allows in a variety of cases, such as those which relate to the revenues of circles.—Declination of the compass or those which relate to the revenues of cases, such as declination of the customs or excise, the post-office, and other departments of administration, the true meridian of a place. This is Justices of the peace, notaries, etc., are also empowered in various cases to take same place at different times. The voluntary declarations in lieu of oaths, declination at London was 11° 15′ E. in solemn affirmations and affidavits.—Declaration of the Congress of the United States of America, on July 4, 1776, by which they formally renounced their subjection to the government of Britain.—

Declaration of Paris, an instrument observing its variations. In magnetic signed at the Congress of Paris, 1856, observatories there are permanent instrument of babolished; (2) a neutral flag covers

Jefferson, as member of a committee ap-

portion of people, as of an army or inhabitants of a country.

Decius (de-she-us), C. Messius Quinnouns, pronouns, and adjectives receive nouns, proposed from Ap 240 to Ap magning or magn

peror, who reigned from AD 249 to AD. 251. He persecuted the Christians, and perished with his army in a battle near Abricium against the Goths.

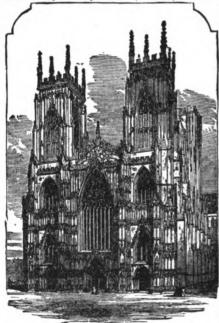
Deck (dek), a horizontal platform or hoor floor extending from side to side of a ship, and formed of planking supported by the beams. In ships of large there are several decks one over the size there are several decks one over the other. The quarter-deck is that above the upper deck, reaching forwards from the stern to the gangway.

Decker, Thomas. See Dekker, Great circles passing through the poles,

annual variations in declination, and also the variations due to magnetic storms.

Decomposition (de-kom-po-zish'un), CHEMICAL, is the separation of the constituents of a body from one another. Roughly speaking—for it is a difference of degree rather than of kind—decomposition is either artificial or spontaneous. Artificial decomposition is produced in bodies by the action of heat, light, electricity, or chemical reagents; spontaneous, in bodies which quickly undergo change in ordinary circumstances, unless special precautions are taken to preserve them. The bodies of the mineral, and the definite crystallized principles of the organic, world belong to the first; organized matter, such as animal and vegetable tissues, organic fluids, such as blood, milk, bile, and the complex non-crystallized bodies, albumen, gelatin, emulsin, etc., belong to the sec-

(dek'u-rā-ted), in architecture, the Decorated Style second style of pointed (Gothic) archi-



Decorated Style.-York Cathedral, West Front. tecture, in use in Britain from the end of the thirteenth to the beginning of the fifteenth century, when it passed into the

perpendicular. It is distinguished from the Early English, from which it was de-veloped, by the more flowing or wavy lines of its tracery, especially of its windows, by the more graceful com-binations of its foliage, by the greater richness of the decorations of the capitals of its columns, and of the moldings of its doorways and niches, finials, etc., and generally by a style of ornamentation more profuse and naturalistic, though perhaps somewhat florid. The most distinctive ornament of the style is the ballflower, which is usually inserted in a hollow molding. (See Ball-flower.)

Decoration Day (d e k-o-ra'shun).

The beau tiful

ceremony of decorating the graves of soldiers of the late Civil war in the United States, on the 30th of May of each year, is made possible through the organization of the Grand Army of the Republic, whose posts in every State of the Union keep records of soldiers' graves. the Union keep records of soldiers' graves for the purpose. It is a legal holiday in several of the States, and is observed throughout the North and in parts of the South.

Decoy (de-koi'), a place into which wild fowls are entited in order to be caught. A decoy pond is kept only in a secluded situation. Several channels or pipes of a curved form, covered with light hooped network, lead from the pond in various directions. The wild fowl are induced to enter the wide mouth of the channel by tamed ducks, also called decoys, trained for the purpose, or by grain scattered on the water. When they have got well into the covered channel they are surprised by the decoy-man and his dog, and driven up into the funnel net at the far end, where they are easily caught. The details differ in different cases, but this is the general principle of the contrivance.

Decree (de-krē), in general, an order, edict, or law made by a superior as a rule to govern inferiors. In law it is a judicial decision or determination of a litigated cause. Formerly, in England, the term was specially used for the judgment of a court of equity, but the word judgment is now used in reference to the decisions of all the divisions of the supreme court, as, also, in the United States. The word is still used in Scotland for the final judgment of a court, frequently in the form decreet.

Decree Nisi (në'sē), literally, a 'decree unless,' a legal term for the decree of divorce issued by

a court on satisfactory proof being given in support of a petition for dissolution of marriage; it remains imperfect for

absolute, 'unless' sufficient cause is onethshire; flows to the Irish Sea 20 shown why it should not be made so. If miles below Chester. (3) A river of

at least six months, and is then made and Cheshire: rises in Lake Bala, Meriwithin the time appointed good reason can be shown for such a proceeding, the decree nist will be reversed, or a further inquiry will be ordered.

Kirkcudbright Bay. Each of these kirkcudbright Bay. Each of these streams is between 80 and 90 miles Scotland, county of Kirkcudbright: rises in Loch Dee, situated among the western

decree nist will be reversed, or a further inquiry will be ordered.

Decrepitation (de-krep-i-tā'shun), the act of flying asunder with a crackling noise on being heated, or the crackling noise, attended with the flying asunder of their parts, made by several salts and minerals when heated. It is caused by the unequal sudden expansion of their substance by the heat, or by the expansion and volatilization of water held mechanically within them.

Decrescendo (dā-kreshen'dō), an Which denotes the gradual weakening of the sound, or the reverse of crescendo.

Decretals (de-krē'tals), a general name for the papal decrees, comprehending the rescripts (answers to inquiries and petitions), decrees (judicial decisions by the Rota Romana), mandates (official instructions for ecclesiastical officers, courts, etc.), edicts (papal ordinances in general), and general resolutions of the councils. The decretals form a most important portion of the Roman Catholic canon law, the authoritative collection of them being that made by the orders of Gregory IX and published in 1234.

Dedham, Massachusetts, 9 miles S. w. of Boston. It has manufactures of woolen goods, carpets, machinery, potestime of the survey at the birthplace of between two or more persons in different between two or more persons in different elevance and between parties legally capable of between two or more persons in different between two or more persons in different

or soston. It has manufactures of purchaser or donee. It is either an inwoolen goods, carpets, machinery, pottery etc. It was the birthplace of
between two or more persons in different
Fisher Ames. Pop. 9284.

Dedication (ded-i-kā'shun), the act
of consecrating so me
thing to a divine being, or to a sacred
use, often with religious solemnities.

Deep (deg), a town and fortress in

thing to a divine being, or to a sacred use, often with religious solemnities.

Also an address prefixed to a book, and formerly inscribed to a patron, testifying midst of marshes, and almost surrounded respect and recommending the work to his protection and favor; now chiefly At the southwest corner is a lofty rock, addressed to friends of the author, or to public characters, simply as a mark of affection or esteem.

The Areation (de-duk'shun). in reason-

affection or esteem.

Deduction (de-duk'shun), in reasoning, the act or method of drawing inferences, or of deducing conclusions from premises; or that which is drawn from premises. See Logic.

Dee (de), the name of several British tence of death on condemned criminals. The city of Aberdeen stands one of the best salmon rivers as the chief-justices of the island, the in Britain. The city of Aberdeen stands over the southern division. They hold

courts weekly at Douglas, Ramsey, and ten counties, are devoted to deer forests. other places.

Deep Sea Exploration. Investiga-tion of the deeper areas of the ocean. The method employed by sounding with apparatus fitted to bring up specimens of organic life and of the sea bottom. organic life and of the sea bottom. American explorations were conducted from 1872 onwards by the U. S. Coast Survey and the Fish Commission, while several European nations have engaged in similar work. The most important of these explorations was that of the English ship Challenger (1872-76), which widely traversed the Atlantic and Pacific, and brought up numerous and extraorand brought up numerous and extraordinary specimens of deep sea animal life. The sea-bottom was also examined and much learned concerning its make-up and conditions. One interesting feature of the results is that many of the animals found are phosphorescent, the selves lighting up their dark abode.

Deer (der), a general name for the ungulate or hoofed ruminating animals constituting the family Cervidæ, of which the typical genus is Cerous, the stag or red deer. The distinguishing characteristics of the genus are, that the members of it have solid branching horns which they shed every year, and eight cutting teeth in the lower jaw and none in the upper. The horns or antiers always exist on the head of the male, and in the reindeer on that of the female. The forms of the horns are various; sometimes they spread into broad palms which send out sharp snags around their outer edges; sometimes they divide fantastically into branches, some of which project over the forehead, while others are reared upwards in the air; or they may be so reclined backwards that the animal seems almost forced to carry its head in a stiff erect posture. They are used as defensive and offensive weapons, and grow with great rapidity. There and grow with great rapidity. There are many species of deer, as the red deer or stag, the fallow-deer, the roe-buck, the reindeer, the mose, the elk, the axis, rusa, muntiac, wapiti, etc. (See the separate articles.) Deer are pretty widely distributed over the world though there are none in Australia and few in Africa, where the antelopes (whose horns are permanent) take their

apart for the protection of wild deer, especially red deer, which are used for purposes of sport. In Scotland, to which such forests are chiefly confined, some be done. Its special application is to the 2,000,000 acres, distributed over nine or non-appearance of a defendant in court

ten counties, are devoted to deer forests. The land is usually, in by far the greater part, of the wildest and least productive kind, but of course may yield large numbers of grouse and other game as well as deer. A great many of the forests are rented by sportsmen from the proprietors, and the rents drawn are considerable, ranging from £1000 to £5000, and even much more, per annum for a single forest. Crofters have often been removed from their holdings in order that the land might be incorporated in some deer forest, and this has been regarded as a great grievance. On been regarded as a great grievance. On the other hand, the lessees of the forests have expended large sums of money in the country, and the rents paid the proprietors have enabled them to do the same.

Deer-grass, the name of several North American plants of the genus Rhesia.

Deer-mouse, the common name of the animals belonging to the genus Meriones, an American genus of rodent animals allied to the mice and the jerboas of the Old World. The deer-mouse of Canada (M. Canadonsie) is a pretty little animal of the size of a mouse, with very long hind-less and a tail and very chort for less. legs and a tail, and very short forelegs.

Deer-stalking, an exciting but la-borious mode of hard deer, in which, on account of the extreme shyness of the game, their far-sightedness and keen sense of smell they have to be approached by cautious manœuvring before a chance of obtaining a shot occurs. Great patience and tact and a thorough knowledge of the ground are essential to a good stalker, who has to undergo many disstaker, who has to undergo many dis-comforts in crouching, creeping, wading through bogs, etc. Advance from higher to lower ground is usually made, since the deer are always apt to look to the low ground as the source of danger. 'Deer-driving' towards a point where the shooters are concealed is often practiced, but is looked on as poor sport by the true deer-stalker.

Defamation (def-a-mā'shun), t slanderous words respecting another which tend to destroy or impair his good (whose horns are permanent) take their name, character, or occupation. To conplace. The reindeer alone has been domesticated.

Deer Forest, an extensive tract of is punishable either by action at common is punishable either by action at common to the protection of the protection of

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when duly summoned on an appointed nal definition explains the meaning of a day. If he fail to appear judgment may be demanded and given against him by

defends, denies, or opposes the demand or charge, and maintains his own right. The term is applied even if the party admits the claim.

Defender of the Faith Defensor), a title belonging to the King of Engsor, a title belonging to the King of Eng-land, as Catholious to the King of Spain, Christianissimus to the King of France, etc. Leo X bestowed the title of Defender of the Faith on Henry VIII in 1521, on account of his book against Luther, and the title has been used by the sov-

ereigns of England ever since.

Deffand (def-En), MARIE DE VICHYCHAMBOND, MARQUISE DU,
ABOUTET among the French literati of the eighteenth century, born in 1697; died in 1780. In 1718 she married the Marquis du Deffand, from whom she separated after ten years. Durwhom she separated after ten years. During the latter part of her long life she became the center of a literary coterie, which included Choiseul, Boufflers, Montesquieu, Voltaire, D'Alembert, David Hume and Horace Walpole. She possessed much natural talent; but the laxity of her morals formed a strong contrast to the superiority of her incontrast to the superiority of her intellectual powers.

Defiance (de-fi'ans), a city, capital of Defiance Co., Ohio, on the Maumee River, 50 miles s. w. of Toledo. It has extensive machine shops and other manufacturers. Pop. 7327.

Defilading (de-fi-lad'ing), that branch of fortification the object of which is to determine (when the intended work would be commanded by eminences within the range of firearms) the directions or heights of the lines of rampart or parapet, so that the in-terior of the work may not be incom-moded by a fire directed to it from such eminences.

Defile (de-fil'), a narrow passage or way in which troops may march only in a file, or with a narrow front;

term by some equivalent word or expression supposed to be better known. A Defendant (de-fen'dant), in law, the party against whom a dental, or a description of the accidents, complaint, demand, or charge is brought; as causes, properties, effects, etc.; or one who is summoned into court and defends, denies, or opposes the demand. as causes, properties, effects, etc.; or essential, which explains the constituent parts of the essence or nature of the thing. An essential definition is, moreover, metaphysical or logical, defining by the genus and difference, as it is by the genus and difference, as it is an organized being, destitute of sensation, where the part first of the definition states the genus (organized being), and the latter the difference (destitute of sensation, other organized beings possessing sensation). ing sensation); or physical, when it distinguishes the physical parts of the essence; thus, a plant is distinguished by the leaves, stalk, root, etc. A strictly accurate definition can be given of only a few objects. The most simple things are the least capable of definition, from the difficulty of finding terms more simple and intelligible than the one to be defined.

Defoe (de-fo'), DANIEL, an English writer of great ingenuity and fertility, was born in 1661 in London, where his father, James Foe, carried on the trade of a butcher. In 1685 he joined the insurrection of the Duke of Monmouth, and had the good fortune to become after which he made several uncertainty. Monmouth, and had the good fortune to escape; after which he made several unsuccessful attempts at business, and at last turned his attention to literature. In 1701 appeared his satire in verse, The True-born Englishman, in favor of William III. As a zealous Whig and Dissenter he was frequently in trouble. For publishing The Shortest Way With the Dissenters (1702), the drift of which was misunderstood by both Churchmen and Dissenters, he was pilwhich was misunderstood by both Churchmen and Dissenters, he was pilloried and imprisoned in Newgate, obtaining his liberty through the influence of Harley, who employed him in several important missions, particularly in the negotiations for the union with Scotland, of which he wrote the history. While in Newgate, in 1704, he commenced the Review, a literary and political periodical which lasted for nine years. In 1705 he wrote a short account way in which troops may march litical periodical which lasted for nine only in a file, or with a narrow front; years. In 1706 he wrote a short account a long, narrow pass, as between hills, of the Apparition of Mrs. Veal, a fictietc.

Definition (def-i-nish'un), a brief and precise description of a he published his largest poem, entitled thing by its properties; an explanadure Divino, a satire on the doctrine of tion of the signification of a word or divine right. In 1707 he was in Scotterm, or of what a word is understood land, which he also visited several times to express. Logicians distinguish definitions into nominal and rest. A nomical affairs, and as an agent of those in power. In 1719 appeared the most popular of all his performances: The Life trigonometry, the 360th part and Surprising Adventures of Robinson of the circumference of any circle, the Crusos, the favorable reception of which circumference of every circle being supwas immediate and universal. The suc-

Deforcement (de-fors/ment), in law, or tenements to which another person has a right; a general term including any species of wrong by which he who has a right to the freehold is kept out of possession. In Scots law, it is the resisting of an officer in the execution

De Gerando (de-zhā-rāṇ-dō), Joseph Marie, Baron, a French philosopher and statesman, born at Lyons in 1772; died in 1842. After serving in the army for some time he took office as minister of the interior under Lucien Bonaparte, and was afterwards engaged Bonaparte, and was afterwards engaged in the organization of Tuscany and the Papal states on their union to France. In 1819 he commenced a course of lectures in the Faculté de Droit, in Paris, on public and administrative law. He was raised to the peerage in 1837. De Gérando has acquired great fame by his Gérando has acquired great fame by his philosophical writings. His principal works are Des Signes et de L'Art de Penser, De la Génération des Connaissances Humaines, Histoire comparés des Systèmes de Philosophie, Du Perfectionnement Moral et de l'Education de Soi-même, De l'Education des Sourdsmuets de Naissance, and De la Bientaisance Publique. faisance Publique.

Deggendorf (degen-dorf), a town of Bavaria, on the Danube, with manufactures of cloth, etc. Pop. (1906) 7154.

De Gourmont (de-gör'mon), REMY, French poet, born in 1858; died in Paris September 28, 1915. He was editor of the Mercure de France and a director of the Révue des Idées.

(de-gra-da'shun), the Degradation ecclesiastical censure by which a clergyman is divested of his holy orders. The canon law distinguishes degradation into two sorts; the one summary, by word only; the other solemn, by stripping the person degraded of those ornaments and rights which are

was immediate and universal. The success of Defoe in this performance induced him to write a number of other lives and adventures in character; as Moll Flanders, Captsin Singleton, Rosano, Dunosa Campbell, The Memoirs of a Cavalier, angles to the equator, and a degree of Journal of the Plague, etc. He died in London in 1731.

Deforcement (de-förs'ment), in law, tor Degrees are marked by a small of the plague, etc. Degrees are marked by a small of the plague, etc. measured on a circle parallel to the equator. Degrees are marked by a small near the top of the last figure of the number which expresses them; thus 45° is 45 degrees. The degree is subdivided into sixty equal parts called minutes; and the minute is again subdivided into sixty equal parts called seconds. Thus, 45° 12' 20" means 45 degrees, 12 minutes and 20 seconds. The magnitude or quantity of angles is estimated in degrees and parts of a degree, because equal angles at the center of a circle are subtended by equal arcs, and equal are subtended by equal arcs, and equal angles at the centers of different circles are subtended by similar arcs, or arcs containing the same number of degrees and parts of a degree. An angle is said to be so many degrees as are contained in the arc of any circle intercepted between the lines which contain the angle, the angular point being the center of the circle. Thus we say an angle of 90°, or one of 45° 24′. It is also usual to say that a star is elevated so many degrees above the horizon, or declines so many degrees from the equator, or such a town is situated in so many degrees of latitude or longitude. The length of a degree depends upon the radius of the circle of the circumference of which it is a part, the length being greater the greater the length of the radius. Hence the length of a degree of longitude is the length of a degree of longitude is greatest at the equator, and diminishes continually towards the poles, at which it = 0. Under the equator a degree of longitude contains 60 geographical, and 69.16 statute miles. The degrees of latitude are found to increase in length from the equator to the poles, owing to the figure of the earth. Numerous measurements have been made in order to determine accurately the length of degrees of latitude and longitude at different parts of the earth's surface and thus ent parts of the earth's surface and thus settle its dimensions and magnitude. When the French determined to establish their system of measures of those ornaments and rights which are weights based upon the metre (see Decithe ensigns of his order or degree. The mal System), they settled that this basis term is also applied to the deprivation of was to be the ten-millionth part of the offices not ecclesiastical. 11

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: Ľ i which distance had to be found by accurate measurement. Ten degrees of latitude were accordingly measured, from Dunkirk to Formentera, one of the Balearic islands. Similar measurements having been made in Britain, the length of a total arc of twenty degrees has been found. Many measurements have seven centuries B.C., rose from a private also been made elsewhere. The term is station to be the founder of the Median also applied to the divisions, spaces, or Empire. By acting as arbitrator in the intervals marked on a mathematical, disputes which took place in his own meteorological, or other instrument, as a thermometer or barometer.

Deoree, in universities, a mark of disagraphic disputes which took place in his own the Medes to choose him for their king Deoree, in universities, a mark of disagraphic disputes which took place in his own the Medes to choose him for their king Deoree, in universities, a mark of disagraphic disputes which took place in his own the Medes to choose him for their king Deoree, in universities, a mark of disagraphic disputes which took place in his own the Medes to choose him for their king Deoree.

respect, the former known as ordinary, the latter as honorary degrees. The degrees are bachelor, master and doctor, and are conferred in arts, science, medicine, divinity and music. Degrees are conferred on women by London University. Cambridge admits them to the tripos examinations, and Oxford to most of its honor schools, but neither grants at present the stamp of a degree. Cause; as opposed to *Pantheism* (Gr. 24. Andrew's University grants the title plant, all, Theos), a Supreme Being distinct from nature or the universe; while, jects; the standard of attainment being degree, the books prescribed and the world. It thus implies a disbellief in reveguestions set being practically identical. In the United States universities similar degrees are given and women frequently receive them.

Degree, in algebra, a term used in press what is the highest power of the unknown quantity. Thus, if the index of that power be 3 or 4 (x², y²), the equations, to green which is respectively of the third or fourth degree.

Dehra (dara), a town of Hindustan, capital of Dehra Doon, beautifully situated, with military cantonments, English, Presbyterian and Roman Catholic churches, and an American mission. Pop. 28,005.

Dehra Doon (dara don), a beautifully situated, with military cantonments, English, Presbyterian and Roman Catholic churches, and an American mission. Pop. 28,005.

Dehra Doon (dara don), a beautifully situated, with military cantonments, English, Presbyterian and Roman Catholic churches, and an American mission. Pop. 28,005.

Catholic churches, and an American mission. Pop. 28,095.

Dehra Doon (da'ra don), a beautiful and fertile valley in the Meerut division of the Northwestern Provinces, Hindustan, at the s. w. base of the lowest and outermost ridge of the Jumna, N. E. by the mountains of and served in Washington's army. In Gurwhal, from 7000 to 8000 feet high, 1780 he was second in command under s. E. by the Ganges, s. w. by the Sewalik General Gates in the South and was range, 3000 to 3500 feet high. Its length from s. E. to N. w. is about 45 miles; breadth, from 15 to 20 miles. The chief town in the valley is Dehra.

Dei gratia (de'l grasshi-a; 'by the grace of God'), a formula School, and manufactures wire, shoes, gloves, gas-engines, auto trucks, wagons, etc. Pop. 9242.

De Kalb, John, a German soldier, born at Hüttendorf in 1721.

Am officer in the French army, he came to America with Lafayette in 1777, was appointed a major-general by Congress, and served in Washington's army. In Gurwhal, from 7000 to 8000 feet high, 1780 he was second in command under served in the South and was range, 3000 to 3500 feet high. Its length called himself baron, but was really a breadth, from 15 to 20 miles. The chief town in the valley is Dehra.

Dekker, or Decker (dek'er). Jere-Mas de del in 1666. His best-

Degree, in universities, a mark of disafter their revolt from the Assyrians. He dents, members, or distinguished strangers, as a testimony of their proficiency in the left the throne to his son Phraortes.

cellaneous writer, born about 1570; died in 1641. He was a voluminous writer, in 1641. He was a voluminous writer, Delambre (de-lan-br), Jean Barand besides a great number of pamphlets Delambre (stan-br), Jean Barand besides a great number of pamphlets Delambre (de-lan-br), Jean Barand besides a great number of pamphlets Delambre (de-lan-br), Jean Barand besides a great number of pamphlets Delambre (de-lan-br), Jean Barand besides a great number of pamphlets Delambre (de-lan-br), Jean Barand besides a great number of pamphlets Delambre (de-lan-br), Jean Barand besides a great number of pamphlets Delambre (de-lan-br), Jean Barand besides a great number of pamphlets Delambre (de-lan-br), Jean Barand besides a great number of pamphlets Delambre (de-lan-br), Jean Barand besides a great number of pamphlets Delambre (de-lan-br), Jean Barand besides a great number of pamphlets Delambre (de-lan-br), Jean Barand besides a great number of pamphlets Delambre (de-lan-br), Jean Barand besides a great number of pamphlets Delambre (de-lan-br), Jean Barand besides a great number of pamphlets Delambre (de-lan-br), Jean Barand besides a great number of pamphlets Delambre (de-lan-br), Jean Barand besides (de-lan-br), Jean Barand bes picture of contemporary life in London. Amiens in 1749; died in 1822. His stud-Among these are: Old Fortunatus, Shoe- ies were not directed to astronomy until maker's Holiday, Satiromastia, The Hon- his thirty-sixth year, but he rapidly acest Whore, etc. He also collaborated with quired fame, and produced numerous

est Whore, etc. He also collaborated with Massinger, Ford Middleton, Jonson, and others. A quarrel with Ben Jonson occasioned that Poet's Poetaster and the Satiromastia of Dekker.

De la Beche, SIR HENRY. See Delaborde (délà-bord), HENRY FRANÇOIS, COUNT, a French general, born at Dijon in 1764; died in 1833. He distinguished himself in the republican armies: fought through the the republican armies; fought through the omie du 18me Siècle (two vols.).
whole of the Napoleonic wars, and was ennobled in 1807. After the second restoration he was placed on the list of the burgh, Pennsylvania, in 1857. She wrote cuted, but in consequence of a technical old Chester Tales; The Awakening of error the case against him lay over, and he lived retired and unannoyed till his other poems. etc.

in 1863. He is considered the chief of the modern French romantic school of painters. In 1831 he joined the embassy leled influence and a great circulation.

sent by Louis Philippe to the Emperor of Morocco. To this journey we are indebted for several pictures remarkable for their vivid realization of oriental life as well as their masterly coloring. They as well as their masteriy coloring. They are: The Jewish Marriage, Muley Abder-rhaman with his Bodyguard, Algerian Ladies in their Chamber, Moorish Soldiers at Emercise, and several scenes of common life. He decorated several of the common life. He decorated several of the public buildings of Paris, and was admitted into the Institute in 1857. He was an artist of great versatility, strong in coloring, but weak in drawing.

Delagoa Bay (de l-a-g o'a bā), in Southeast Africa, a large sheet of water separated from the large of the paringula and igh-

large sheet of water separated from the Indian Ocean by the peninsula and island of Inyack. The bay stretches north and south upwards of 70 miles, with a breadth of from 16 to 20 miles, and forms the southern extremity of the Portuguese settlement of Mozambique. It is available for large tempers though settlement of Mozambique. It is available for vessels of large tonnage, though the presence of shoals, banks and flats renders the navigation of the bay somewhat intricate. The port and Portuguese settlement of Lourenco Marques is best died in 1856. He studied landscape

known poems are: Lof der Geldsucht, ing constantly developed as a place of a satire on avarice; and Puntdichten.

Dekker, Decker, or Decker, Thomas, an English dramatist and miscellaneous writer, born about 1570; died port available for the Boers.

Amiens in 1749; died in 1822. His studies were not directed to astronomy until his thirty-sixth year, but he rapidly acquired fame, and produced numerous works of great value. He was engaged with Méchain from 1792 till 1799, in measuring an arc of the meridian from Barcelona to Dunkirk. In 1807 he succeeded Lalande in the Collège de France, and wreta his Tratité Automatic Thick. and wrote his Traité d'Astronomie Théorique et Pratique (three vols. 4to, 1814). Histoire de l'Astronomie du Moyen Age (1819), Hist. de l'Astronomie Moderne (1821), two vols., and Hist. de l'Astron-

Delane (de-lān'), John Thaddeus, born at London in 1817; died Delacroix (de-la-krwa), FERDINAND Delane born at London in 1817; died nent French painter, born in 1799; died Times in 1841, and retained that im-Times in 1841, and retained that important post till 1877, during which time that paper atained an almost unparal-leled influence and a great circulation.



painting for a short time, but applied Bay and by the ocean, south and west himself afterwards to historical painting, by Maryland; area, 2050 square miles, and rapidly rose to eminence. His subtraction in the counties, Kent, jects are principally taken from French Newcastle and Sussex, and has nearly and English history. Among them may the form of a right-angled triangle (hence be mentioned: Joan of Arc interrogated its popular name 'the Diamond State'). in Prison by Cardinal Beaufort; the In the south and towards the coast the Death of Queen Elisabeth, a work greatly surface is very level, but the north admired by French and generally repropart is rather hilly. An elevated swampy bated by English critics; The Children of tableland towards the west traverses the Edward IV in the Tower: Cromwell con-Arts, Paris. It represents an assemblage of the great painters, sculptors and architects from the days of Giotto to those of Lesueur, and has been admirably engraved by Dupont. His merits consist in correct drawing, appropriate expression, harmonious color, and great distinctness and perspicuity in treatment, rendering the story of his pictures at once intelligible. He held a middle place between the classical and the romantic schools, and was regarded as the leader of the so-called 'eelectic school.'

Delaware, a nourishing state. Fruit cultivation (peaches, apples, berries) is large in cultivation (peaches, apples, berries) is large in a nourishing state. Fruit cultivation (peaches, apples, berries) is large in a nourishing state. Fruit cultivation (peaches, apples, berries) is large in a nourishing state. Fruit cultivation (peaches, apples, berries) is large in a nourishing state. Fruit cultivation (peaches, apples, berries) is large in a nourishing state. Fruit cultivation (peaches, apples, berries) is large in a nourishing state. Fruit cultivation (peaches, apples, berries) is large in a nourishing state. Fruit cultivation (peaches, apples, berries) is large in a nourishing state. Fruit cultivation (peaches, apples, berries) is large in a nourishing state. Fruit cultivation (peaches, apples, berries) is largely engaged in, and the canning and drying of fruits are important industries. There are also extensive and varied manufactures. A ship canal connects Chesarenes and Delaware Bay. There are also extensive and varied manufactures. A ship canal connects Chesarenes and prespicuity in treatment, and the canning and drying of fruits are important industries. There are also extensive and varied manufactures. A ship canal connects Chesarenes and prespicuity in treatment, and or cultivation (peaches) and varied manufactures. A ship canal connects Chesarenes and varied manufactures. A ship canal connects Chesarenes and varied manufactures. A ship canal connects Chesarenes and varied manufactures. A ship canal co

of the so-called 'eclectic school.'

Delavigne (dė-la-vēn), Jean Fransidero; and dramatist, born at Havre in brated medicinal springs in the vicinity. 1793; died in 1843. At the restoration he published a set of elegies, entitled Les Messéniennes, which deplored the fades glories of France. He produced in 1819 his tragedy of Les Vépres Sioiliennes; Les the States of Delaware and New Jersey. Comédiens appeared in 1820, and the tragedy of Le Paria in 1821. Of his other plays which followed these may be mentioned: L'Ecole des Vicillards; Marino Faliero; and the dramas of Lowis XI situated the Delaware Breakwater, which —founded on Commines' Memoirs and affords vessels a shelter within the cape. —founded on Commines' Memoirs and Quentin Durward—and Don Juan d'Autriche. His hymns La Parisienne and La

course of about 400 miles, and is navigable for large vessels to Philadelphia, and for smaller craft to the head of tidewater at Trenton (155 miles).

Death of Queen Elisabeth, a work greatly surface is very level, but the north admired by French and generally repropart is rather hilly. An elevated swampy bated by English critics; The Children of tableland towards the west traverses the Edward IV in the Tower; Cromwell contemplating the Dead Body of Charles I; Chesapeake and the Delaware bays. A The Execution of Lady Jane Grey; and great part of the soil is fertile, and agritude the Hemicycle, an immense work painted culture is in a flourishing state. Fruit in oil on the wall of the École des Beaux cultivation (peaches, apples, berries) is Arts, Paris. It represents an assemblage largely engaged in, and the canning and of the great painters sculptors and archive great printers sculptors and archive great printers are important industries.

Delaware, a city, capital of Delaware Co., Ohio; a place of considerable trade and the seat of the Ohio Wesleyan University. There are celebrated medicinal springs in the vicinity.

affords vessels a shelter within the cape. It was erected by the Federal government, and cost about \$3,000,000.

Varsovienne, and the ballad La Toilette de Constance, are among his more popular poetical pieces. He died a member of the Academy.

Delaware (del'a-war), a river which mountains in New York, separates Pennsylvania from New York, separates Pennsylvania from New York and New Jersey, and New Jersey from Delaware, and New Jersey from Delaware, and new their original settlements about the moved to the inieteenth century, going farther west, and eventually were removed to the Indian Territory. Their numbers are now insignificant.

Del Credere (del kred'e-ra), an Italian for smaller craft to the head of tide-similar in import to the English guaran-

similar in import to the English guaran water at Trenton (155 miles).

Delaware, one of the original thirtee or the Scotch warrandice. It is used the many merchants to express the obligation of the Union, named after Lord Delaware, one of the early governors of Virushia. It is bounded north by Pennsylalso to guarantee the solvency of the vania, east by the Delaware River and persons with whom he contracts. On

Deleb Palm

Maas, 2 miles s. w. of Rotterdam, of which it is now a suburb. It is well protected from inundation by dikes, etc., and has ample accommodation for shipping. the government college, founded in 1792 Delft (delf), formerly Delf, a town of (abolished as a college); the Residency, dam, intersected in all directions by canals. Among its buildings are the over the Jumna. The s. w. quarter of town hall, the Prinsen-hof, the scene of the town is densely occupied by the the assassination of William the Silent, now a military barrack; the old Reformed church, containing the monutual formed church, containing the monutual fares of the city are splendid streets, the Leeuwenhoek, etc.; the new church, containing monuments to William I, Hugo Grotius, and the burial vaults of the present royal family. Delft was formerly the center of the manufacture of the potery called delfi-ware; its chief industries now embrace carpets, leather, soap, oil, gin, etc. Pop. 31,582.

Delft-ware, or Delf, is a kind of Georgics, published in 1770, with a enamel or white glazing which gives it the appearance of porcelain. It was notations, established his fame, and oboriginally manufactured in Delft in the

account of this guarantee a higher com-mission, called a del oredere commission, is paid to the factor or agent. Deleb Palm (de-leb'), the Borassus Delfzyl (delf-zil'), a strongly fortified town and port of North Hol-

mission, called a del oredere commission, is paid to the factor or agent.

Deleb Palm (de-leb'), the Borassus

Delfzyl (delf-zil'), a strongly fortified to town and port of North Holland, province Gronigen, on the Dollart. The interior and west of Africa, allied to the Palmyra palm. Its leaves and fruits are used by the Africans for the same purposes as those of the Palmyra by the Health (del'e), a city of Hindustan, in the Punjab, anciently capital of purposes as those of the Palmyra by the Patan and Mogul empires, about Asiatics, and the tender roots produced by the young plant are extensively used as an article of food.

Delegate (de'e-gat), a person appointed and sent by another time the largest city in Hindustan, coveror by others, with powers to transact ing a space of 20 square miles, and having Delegate (defegat), a person appointed and sent by another time the largest city in Hindustan, coveror by others, with powers to transact business as his or their representative, a population of 2,000,000. A vast tract. The title was given to members of the covered with the ruins of palaces, pavifirst Continental Congress in America, lions, baths, gardens, mausoleums, etc., 1774. Representatives to Congress from the United States territories are designated by this term. They have the right of discussion, but have no vote.

Delegate (delā-kluz), Louis tright bank of the Jumna, and is surrounded discussion, but have no vote.

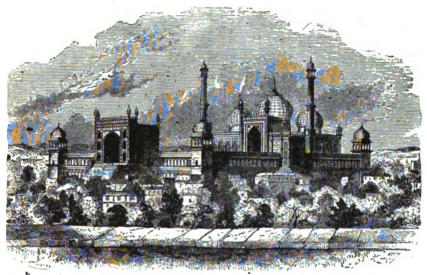
Delegate (delā-kluz), Louis tright bank of the Jumna, and is surrounded on three sides by a lofty stone wall the surrounded on three sides by a lofty stone wall the surrounding tright bank of the last century with a ditch and glacis. The palace or journalistic career and was imprisoned was imprisoned to france (1853) was the title fort,' is situated in the basishment. He escaped to England, but east of the city, and abuts directly on having returned to France (1853) was the river. It is surrounded on three sides kept in prison for some time and then by an embattled wall of reddish sandbanished to Cayenne. On his return he stone nearly 60 feet high, with round again got into trouble. After the fall of towers at intervals, and a gateway on the the empire and the German occupation west and south. Since the mutiny in he became a prominent member of the 1857 a great portion has been demolished communication. again got into trouble. After the fall of towers at intervals, and a gateway on the the empire and the German occupation west and south. Since the mutiny in he became a prominent member of the 1857 a great portion has been demolished Commune, and was shot at one of the in order to make room for military barbarricades in 1871.

Delfshaven (delfs'hë-ven), a former reaks. One of the most remarkable objects in the city is the Jamma Musjid or town of Holland, on the Great Mosque, a magnificent structure in Maas, 2 miles s. w. of Rotterdam, of the Byzantine-Arabic style, built by the which it is now a suburb. It is well protected from inpundation by dikes, etc., and century. Among modern buildings are

poetry in the College of France, and of by long-continued and exhausting pain, belles-lettres at the University of Paris. and by a state of inanition of the nerv-Though an adherent of the old system, ous system. Robespierre spared him on every occasion. At his request Delille wrote the Dithyrambe sur l'Immortalité de l'Ame, which arises from the inordinate and pro-to be sung on the occasion of the public tracted use of ardent spirits. It is thereto be sung on the occasion of the public tracted use of arteent spirits. It is thereacknowledgement of the Deity. In 1794 fore almost peculiar to drunkards. The
he withdrew from Paria, but returned principal symptoms of this disease, as its
again in 1801, and was chosen a mem-name imports are delirium and trembling.
ber of the Institute. He spent two years The delirium is a constant symptom, but
in London, chiefly employed in translatthe tremor is not always present, or, if
ing Paradise Lost. His reputation mainly present, is not always perceptible. Frerests on the Georgics, and Les Jardins, quently the sufferer thinks he sees the

He became professor of Latin the body, as the heart; it may be caused

Delirium Tremens, an affection the brain



Great Mosque at Delhi, viewed from Northeast,

Great Mosque at Delhi, viewed from Northeast.

a didactic poem. Other works are most frightful, grotesque, or extraordinary L'Homme des Champs, La Pitié, Les objects, and may thus be put into a state of extreme terror. It is properly a distinction, L'Enéide de Virgile, etc.

Deliquescence (de l-i-qu e s'e n s), a treatment is to administer soporifics so as change of form from to get the patient to sleep.

The solid to the liquid state, by the absorption of moisture from the atmosphere. It occurs in many bodies, such in 1726. H published upwards of 130 as caustic potassium, chloride of calcium, geography current in Europe in the be-

as caustic potash, carbonate of potassium, maps, and reconstructed the system of acetate of potassium, chloride of calcium, geography current in Europe in the bechloride of copper, chloride of zinc, et.

Delirium (de-lir'i-um), a temporary XV appointed him geographer to the disordered state of the king.—His brother, JOSEPH NICOLAS, born mental faculties occurring during illness in 1688; died in 1768, was a distinguished either of a febrile or of an exhausting astronomer, geographer and mathematinature. It may be the effect of disordered or inflammatory action affecting the acquaintance with Newton and Halley. brain itself, or it may be sympathetic Delitzsch (då'lēch), a town of with active diseases in other parts of

He published many devotional and theological works and several commentaries. Died in 1890.—His son Friedrich, born in 1850, has distinguished himself in Assyriology, and is professor of that subject at Leipzig.

Della Cruscans (del'a krus'kans),

Löbber, 15 miles north of Leipzig, with York City in 1844; entered the Naval manufactures of woolens, and several important annual fairs. Pop. 10,479.

Delitzsch, Franz, a German theodition to northern Greenland in 1874, logian, born at Leipzig in and in 1879 sailed as commander of 1813. He was a strong supporter of the Jeannetts on an expedition to exstrict orthodox theology; became proplere the Arctic Ocean north of Siberia. fessor of theology at Rostock in 1846, at The ship was crushed in the ice June 12, Erlangen in 1850, and at Leipzig in 1867. 1881, and De Long died of starvation in the delta of the Lena River, October 30.

His remains were brought to the United States in 1884.

Deloo (de-lö': Cephalolophus grimmis), a small but pretty antelope occurring over a great part of Central and

Southern Africa.

Della Cruscans (del'a krus'kans), a coterie of English poetasters resident for some time in Florence, who printed inferior sentimental poetry and prose in 1785. Coming to England, they communicated the inection to minds of a like stamp, and the newspapers of the day, chiefly the World gallant and brilliant in Paris. She and the Oracle, began to give publicity to their lucubrations. They were extinguished by the bitter satire of Gifford, Mrs. H. Cowley and Mrs. Robinson were the leaders. They took the name from the Accademia Della Crusca in Florence.

Della Robbia (del'là rob'i-à) Luca, born in 1400 at Florence; died in 1482. He was distinguished for his work both in marble and bronze, and also for his reliefs in terra-cotta coated with enamel, a kind of work named after him. Other members of the family distinguished themselves in the same line, especially Anspara (1435-1525) nephew and pupil of Luca.

Talla Robbia Ware, terra-cotta cotta the island, occupied by the Ionians, had kings of its own, who also held the suppose the some line, especially and had been a registered to the side of the Frondeurs, and Mazarin was about 12 square miles in extent. A first the island, occupied by the Ionians, had kings of its own, who also held the Delorme (de-lorm), Marion, a celebrated French beauty who reigned under Louis XIII. The date of

Della Robbia Ware, terra-cotta about 12 square miles in extent. At first the island, occupied by the Ionians, had thickly enameled with tin-glaze; made at Florence (chiefly 1450-1530); in France (1530-1567); so called from the name of the above artist.

Dellys (del-lez'), a seaport of Algeria, about 12 square miles in extent. At first the island, occupied by the Ionians, had thickly enameled with tin-glaze; made at priestly office. In 477 R.C. it became the common treasury of the Greeks who (1530-1567); so called from the name of the above artist.

Dellys (del-lez'), a seaport of Algeria, habitants from it, but they were soon the climate is salubrious, and there is a Minor, etc. After the destruction of trade in grain, oil and salt. Pop. 14,070. Corinth (146 R.C.) the rich Corinthians Delolme (delolm), Jean Louis, a fled thither, and made Delos the seat of Swiss writer, born at Geneva a flourishing commerce. The greatest in 1740; died in 1806. He at first practiced as a lawyer in his native city, but they part which he took in its internal war against Greece, forebore attacking commotions obliged him to repair to England, where he passed some years in great indigence. He became known by and taste in making utensils, statues of their gods, figures of heroes, animals, etc. in bronze and silver. Delos, called Diktors of the status of their gods, figures of heroes, animals, etc. in bronze and silver. Delos, called Diktors of the status of the status of their gods, figures of heroes, animals, etc. in bronze and silver. Delos, called Diktors of the status of the s

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cavations resulting in interesting archeo- series of bodily movements held to yield logical discoveries have recently been a harmonious development of the body made.

Delphi (del'fi), an ancient Greek town, originally called Pytho, the seat of the famous oracle of Apollo, une seat or the ramous oracle of Apollo, was situated in Phocis, on the southern lish D. The island formed by the alluvial deposits between the mouths of the Nile, the Corinthian Gulf. It was also one of the meeting places of the Amphictyonic Council, and near it were held the Pythian games. The oracles were delivered by the mouth of a price term of the property rythan games. The oracles were de-livered by the mouth of a priestess who was seated on a tripod above a subter-ranean opening, whence she received the vapors ascending from beneath, and with them the inspiration of the Delphian god. The oracular replies were always obscure and ambiguous; yet they served, in earlier times, in the hands of the priests, to reg-ulate and uphold the political, civil and religious relations of Greece. The oracle was celebrated as early as the ninth cenwas ceneurated as early as the ninth century B.C., and continued to have importance till long after the Christian era, being at last abolished by the emperor Theodosius. Persons came to consult it from all quarters, bestowing rich gifts in return. The splendid temple thus possessed the state of the control of the contro immense treasures, and the city was adorned with numerous statues and other works of art. It first lost its treasures in 357 B.C., when seized by the Phocians; it was afterwards plundered by Sulla and by Nero, while Constantine also removed several of its treasures. The site of the town is now occupied by a village called Castri, near which may be seen the still-

flowing Castalian spring.

Delphin Classics (del'fin klas'iks),
a collection of the Latin classical authors made for the dauphin (Lat. ad usum Delphinis), son of Louis XIV, under the editorship of Bossuet and Huet, with notes and interpretations. A similar series based on these was published in London.

Delphinidæ (del-fin'i-dē), the dolphin family of cretaceans. See

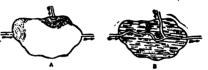
Dolphin. Delphinium (del-fin'i-um), a genus of Ranunculacese, comprising the larkspurs, stavesacre, etc. See Larkspur.

See Larkspur.

Delsarte (del-sart), François A. N. Ings are his Kecherches sur les Modifications de l'Atmosphère (Geneva, 1772); a French singer and Nouvelles Idées sur la Météorologie (Lonteacher of elocution, born at Solesmes in 1811; died in 1871. He won a high repute as a teacher of dramatists and a singer of declamatory music, and published works on voice culture and several singer of declamatory music, and published works on voice culture and several mosaic history, took place to punish the great iniquity of mankind. It was pro-

neighboring isles pay it summer visits known as the Delsarte system, is still with their flocks. Abundant ruins of its popular in the United States, and is former magnificence yet exist, and ex-applied to the promotion of health by a and a true and natural dramatic expression.

Delta (del'ta), the name of the Greek letter Δ, answering to the English D. The island formed by the alluvial deposits between the mouths of the Nile,



Stages in the filling up of a lake. In a two streamlets are represented as pouring their deltas into a lake. In s they have filled the lake up, converting it into a meadow across which they wind on their way down the valley. named Delta by the Greeks; and the same name has since been extended to those alluvial tracts at the mouths of great rivers which, like the Nile, empty themselves into the sea by two or more diverging branches.

Delta Metal, a brass, or alloy of copper and zinc, to which manganese has been added. It is used for parts of machinery and for ornamental work.

Deltoid Muscle (del'toid), a muscle of the shoulder which moves the arm forwards, upwards and backwards.

Deluc (de-lök), Jean André, a geologist and meteorologist, was born in 1726 at Geneva; died at Windsor in 1817. In 1773 he went to England; was elected a fellow of the Royal Society of London, and appointed reader society of London, and appointed reader to the queen, a situation he held for forty-four years. He made numerous geological excursions in Central Europe and in England, of which he has pub-lished accounts. He aimed at defending the Mosaic account of the creation against the criticism whose weapons were furnished by his favorite science. He made many valuable original experiments in meteorology. Among his numerous writings are his Recherches sur les Modifica-

ture except Noah, with his family, and saw and commander-in-coner of the Foush the animals which entered the ark by the army during the revolution of 1830; was command of God. Many other nations appointed by Kossuth commander of the mention, in the mythological or prehistoric Hungarian troops in 1849, and served part of their history, inundations which, till Kossuth's resignation compelled him in their essential particulars, agree with to seek refuge in France, where he rethe Scriptural account of Noah's presermained till his death. vation, each nation localizing the chief events and actors as connected with itself. Delundung (de-lun'dung; Prionodon nected and imperfectly defined ideas chase gracilis), an interesting each other rapidly through the mind, the quadruped inhabiting Java and Malacca, powers of continued attention and reallied to the civets, and probably forming a connecting link between them and the Felidæ, being destitute of scent-pouches.

olive oil. Pop. about 6500.

Demagogue (dem'a-gog), originally simply one who leads or directs the people in political matters; now it usually means one who acquires influence with the populace by pandering to their prejudices or playing on their ignorance.

Demand and Supply, terms used in political economy to express the relations between consumption and production, between the demand of purchasers and the supply of commodities by those who have them to sell. The relations which subsist between the demand for an article and its supply determine its price or exchangeable value. When the demand for a commodity exceeds the supply the price of the com-modity is raised, and when the supply

exceeds the demand the price falls.

Demavend (de-mä'vend), a volcanic mountain of Persia, and the highest peak of the Elbruz chain, 45 miles south of the Caspian Sea and about 40 miles N. E. of Teheran. Its height is

duced, according to Genesis, by a rain of in the Hungarian revolution of 1849: forty days; and covered the earth 15 born in 1791; died in 1864. He served cubits above the tops of the highest under Napoleon during the Russian mountains, and killed every living crea-campaign of 1812; was governor of Warture except Noah, with his family, and saw and commander-in-chief of the Polish and the animals which entered the set by the army during the resulting of 1890.

Dementia (de-men'shi-a), a form of insanity in which unconnected and imperfectly defined ideas chase flection being lost. It often implies such general feebleness of the mental faculties

as may occur in old age.

Tellow, being destitute of scent-pouches, as may occur in old age.

It is of slender form, with a long tail,
and is beautifully spotted.

Delvino (del'vi-no), a town of Albaish Guiana, which derives its name from
nia, Turkey, about 44 miles the river Demarara or Demerara. It exnorthwest of Janina; it is the seat of tends about 100 miles along the coast, lya Greek bishop, and has some trade in
ing on the east of Essequibo and on the
west of Berbico. The soil is very fertile. ing on the east of Essequibo and on the west of Berbice. The soil is very fertile, producing abundant crops of sugar, coffee, cotton, rice, etc. Chief town, Georgetown. Pop. of province, 171,000.—The river, after a course of about 120 miles, flows into the Atlantic.

Demesne (de-man'), or Domain, in law, a manor-house and the land adjacent or near, which a lord keeps in his own hands or immediate occupation, for the use of his family, as distinguished from his tenemental lands, dis-

tributed among his tenants.

Demeter (de-me'ter), one of the twelve principal Grecian deities, the great mother-goddess, the nourishing and fertilizing principle of nature. She was the daughter of Cronus and Rhea, and mother of Persephone (Proserpine). The main feature in the myth of Demeter, and that which forms the fundamental idea of her worship, is the loss and recovery of her daughter, lersephone. By the Romans she was called Ceres. See Ceres.

Demetrius (de-met'ri-us), or DMITEL, the name of a series of about 19,400 feet, and it bears evidence of having been active during the latest impostors who usurped supreme authority geological (if not within the historical) in Russia, and led to some of its remarkperiod.

In Russia, and led to some of its remarkable revolutions. Ivan Vasilievitch, who able revolutions. Ivan Vasilievitch, who lake of Abyssinia, in a provour hand, left the throne in 1584 to another some of that country. It is of irregular form, Boris Godunoff entirely supplanted in his about 140 miles in circumference, has an authority. Ivan had left another some layartion of 6100 feet have the see and Dmitri by a general resource. elevation of 6100 feet above the sea, and level forms the reservoir of the Blue Nile.

Dembinski (dem-bin'skē), HENRYK, a formidable obstacle to his ambitious projects, caused him to disappear, but no one Demetrius Democrat:

Otrepieff, a native of Jaroslav and a togram, etc.

novice in a monastery, personated Dmitri,
went to Lithuania, where he embraced
the Roman Catholic religion and married as a ravelin (which see). the daughter of Mniszek, palatine or Demi-monde (de'mi-mond), an exwaiwod of Sandomir. In 1604 he entered pression first used by waison of sandomir. In 1004 ne entered pression first used by Russia at the head of a body of Poles, the younger Dumas in a drama of the was joined by a number of Russians and same name (first performed in 1855), to Cossacks, and defeated an army sent denote that class of gay female advenagainst him. On the death of Boris he turers who are only half-acknowledged in was placed on the throne, but he offended society; popularly disreputable female the Russians by his attachment to Polish society; courtezans. the Russians by his attachment to Polish manners and customs, and still more by a want of respect to the Greek religion a want of respect to the Greek religion and its patriarch, and he was assassinated condition of a figure when it rises from after reigning about eleven months. A the plane as if it had been cut in two rumor of his being still alive having and only one half fixed to the plane. spread, another impostor quickly appeared to personify him, and the Poles espousing the cause of the second false lease; it is applied to an estate either in Dmitri, made it triumphant, until he was fee-simple, fee-tail, or for a term of life assassinated in 1610 by the Tatars whom or years. As applied to the crown of had selected as his bodyguards. A England, demise signifies its transmission state of anarchy ensued and continued for to the next heir on being laid down by nearly half a century, during which a the sovereign at death.

number of other false Dmitris appeared Demisemiquaver (dem'i-sem'i-qua'-ver). in music.

ancient Macedonia, son of Antigonus, a Demiurge (dem'i-urj); Greek, dêm-successor of Alexander the Great, was born about B.C. 339. Being sent by his man), a designation applied by Plato father to wrest Greece from Cassander, and other philosophers to the Divine Beauty of the Alexander Athens with a float ing considered as the Architect or Creater. rather to wrest Greece from Cassander, and other philosophers to the Divine Behe appeared before Athens with a fleet, ing, considered as the Architect or Creator expelled the governor Demetrius Phalereus, and restored to the people their distinction between the Demiurge and the ancient form of government (307 B.C.). Supreme Being; with them the first is the He conquered Macedonia (294 B.C.) and Jehovah of the Jews, who, though deserving to be honored as the Creator, was was imprisoned by Seleucus, and died in Syria, 283 B.C.

Demmin (dem-men'), an old town of

Demetrius Phalereus (fa-le' rös); Greek orator and statesman, born 345 with manufactures of woolen and linen a.c.; in 317 was made Macedonian gov-cloth, hats, leather, hosiery and tobacco; ernor of Athens, and embellished the and a good trade. Pop. 12,541. city by magnificent edifices. He fled to **Democracy** (de-mok'ra-si), the rule Egypt when Athens was taken by Demet-Egypt when Athens was taken by Demetrius Pollorcetes (see above), where he is said to have promoted the establishment which the sovereignty of the state is of the Alexandrian Library and of the vested in the people, and exercised by museum. Demetrius wrote on several them either directly, as in the small resubjects of philospohical and political publics of ancient Greece, or indirectly, science, but the work on rhetoric, which has come to us under his name, belongs to as in the constitutional states of modern times. a later age.

De Mille, JAMES, a Canadian novelist, born at St. John's, New especially the populace regarded as rulers.

Brunswick, in 1837: died in 1880. He See also next article.

was professor of classical languages in Acadia College in 1860-65, and of his-

exactly knew how. Grishka, or Gregory Baron, A Comedy of Terrors, The Cryp-

Demi-rilievo (-ri-li-ā'vō), in sculp-ture, half-relief, or the

state of anarchy ensued and continued for to the next heir on being laid down by

Demetrius, surnamed Polioroetes (the half a semiquaver, or the thirty-second ancient Macedonia, son of Antigonia and Polioroetes (the half a semiquaver, or the thirty-second ancient Macedonia, son of Antigonia and Polioroetes (the half a semiquaver, or the thirty-second ancient Macedonia, son of Antigonia and Polioroetes (the half a semiquaver, or the thirty-second ancient Macedonia, son of Antigonia and Polioroetes (the half a semiquaver, or the thirty-second ancient Macedonia, son of Antigonia and Polioroetes (the half a semiquaver, or the thirty-second ancient Macedonia, son of Antigonia and Polioroetes (the half a semiquaver, or the thirty-second ancient Macedonia, son of Antigonia and Polioroetes (the half a semiquaver, or the thirty-second ancient Macedonia, son of Antigonia and Polioroetes (the half a semiquaver, or the thirty-second ancient Macedonia, son of Antigonia and Polioroetes (the half a semiquaver, or the thirty-second ancient Macedonia, son of Antigonia and Polioroetes (the half a semiquaver, or the thirty-second ancient Macedonia, son of Antigonia and Polioroetes (the half a semiquaver, or the thirty-second ancient Macedonia, son of Antigonia and Polioroetes (the half a semiquaver) and Polioroetes (the half

(fa-le' rös), a celebrated merania, 70 miles w. N. W. from Stettin,

The term is also applied in a times.

Acadia College in 1860-65, and of history and rhetoric in Dalhousie College in United States, a member of one of the 1865-80. His books were numerous, intwo great political parties into which cluding The Dodge Club, The American that country is divided; opposed to Re-

publican. The main features of the Dem- pagan mythology viewed as an object of ocratic principles are decentralization, self-government of the states, and tariff for revenue only. The Democratic party was in the ascendant during most of the time from the election to the Presidency

Democritus (de-mok ri-tus), a Greek philosopher of the new Eleatic school, a native of Abdera, who was born between 470 and 460 B.C. He traveled to Egypt, where he studied geometry, and probably visited other countries, to extend his knowledge of nature. Among the Greek philosophers he engoved the instruction of Leucippus. He afterwards returned to his native city, where he was placed at the head of pubthe Aberites, he resigned his office and retired to solitude, to devote himself exclusively to philosophical studies. cording to later biographers he was called 'the laughing philosopher,' from his habit of laughing at the follies of mankind. In his system he developed still further the mechanical or atomical theory of his master Leucippus. Thus he explained the origin of the world by the eternal motion of an infinite number of invisible and indivisible bodies or atoms, which differ from one another in form, position, and arrangement, and which have a primary motion, which brings them into constant and former below the second of the second former below the mary motion, which orings them into contact, and forms innumerable combinations, the result of which is seen in the productions and phenomena of nature. In this way the universe was formed fortuitously, without the interposition of a First Cause. The eternal existence of a terms (of matter in general) he informed atoms (of matter in general) he inferred from the consideration that time could be conceived only as eternal and with-out beginning. He applied his atomical to have arisen from atoms, and to be perishable like the rest of things existing. In his ethical philosophy Democritus conas the highest aim of existence. vanced age. His sc by that of Epicurus.

Demogorgon (de-mo-gor'gon), a mysterious divinity in

terror rather than of worship, by some regarded as the author of creation, and by others as a famous magician, to whose spell all the inhabitants of Hades were

was in the abschagan to the Presidency of Jefferson, in 1800, to that of Lincoln, in 1860. Since the latter date the Republicans have nearly always been in control of the government, the only Demoiselle visits the south of Europe. It is about ocratic Presidents being Cleveland, who served two terms, at disconnected intervals, and Woodrow Wilson.

The provided virgo (demok'ri-tus), a Greek cranes in having the head and neck quite feathered and the tertials of the wings elongated and hanging over the tail. It symmetry of form.

Demoivre (de-mwä-vr), Abraham, a French mathe matician, born in 1667; died at London in 1754. He settled in London after the revocation of the edict of Nantes, and gained a live-lihood by becoming a teacher of mathe-matics. His chief works are: Miscellanes Matters. The Chief works are: Miscoulances Analytica; The Doctrine of Chances, or a Method of Calculating the Probabilities of Events at Play; and a work on annuities; besides Papers in the Transactions of the Royal Society, of which he was a fellow.

Demon (de-mun; Greek, deimon), a spirit or immaterial being of supernatural but limited powers, especially an evil or malignant spirit. Among clain an evi or mangnant spirit. Among the ancient Greeks the name was given to beings similar to those spiritual existences called angels in the Bible. In the New Testament evil spirits are called demons (commonly translated 'devils'). A belief in demons is found in the oldest a belief in demons is found in the oldest and the fact. Buddhism reskets religions of the East. Buddhism reckons six classes of beings in the universe; two, gods and men, are accounted good; the other four are malignant spirits. The other four are mailgnant spirits. The Persians and the Egyptians had also a complete system of demons; and in Europe, up till the middle ages, the divinities of oriental, classical, and Scandinavian mythology often figure, from the Christian point of view, as evil spirits. In later times phases of demonology may be seen theory, also, to natural philosophy and in the witchcraft mania and the spirit-astronomy. Even the gods he considered ualism of the present day.

Demoniac (de-mō'ni-ak), a person whose mental faculties are overpowered, and whose body is possessed sidered the acquisition of peace of mind and actuated by some created spiritual He is being; especially a person possessed of or said to have written a great deal; but controlled by evil spirits. The New Tesnothing has come to us except a few tament has many narratives of demoniacs, fragments. He died 370 s.C., at an ad- and various opinions are entertained in vanced age. His school was supplanted regard to the characters of their affiction.

Demonology (de-mon-ol'o-ji), the

Demonstration (dem-un-stra'shun), in a logical sense, any mode of connecting a conclusion with its premises, or an effect with its cause. In a more rigorous sense it is applied only to those modes of proof in which the conclusion necessarily follows from the prem-ises. In ordinary language, however, demonstration is often used as synony-

mous with proof.

Demonte (dā-mōn'tā), a town of North Italy, on the Stura, 14 miles s. w. from Cuneo. Pop. of com-

mune, 5155.

De Morgan (de mor'gan), Augustus, mathematician and logician, was born at Madura, in Southern India, in 1806; died in 1871. His ern India, in 1806; died in 1871. His writings are very numerous and include Elements of Arithmetic, Elements of Algebra, Elements of Trigonometry, Essay on Probabilities and on their Application to Life Contingencies and Insurance Offices, Formal Logic.

De Morgan, WILLIAM FREND, English author, born in 1839 at London, adopted art as a professional control of the control of the

1839 at London, adopted art as a profes-

cording to some in 385) B.C. His father miles south from Adrianople; the see of a left him a considerable fortune, of which his guardians attempted to defraud him. Demosthenes, at the age of seventeen years, conducted a suit against them himself, and gained his cause. He then set his lungs were weak, his articulation defective, and his gestures awkward, by varre, Paris, at the age of seventeen perseverance he at length surpassed all the held professorships of law and bellestundered against Philip of Macedon in Bologna, and became noted for his quarrissorations known as the Philippics, and endeavored to instill into his fellow-citizens the hatred which animated his own known among his many works is Historia bosom. He labored to get all the Greeks Gentis Scotorum, a biographical diction-to combine against the encroachments of ary of the authors and saints of Scotland, Philip, but Macedonian gold and their work is De Etruric Regeli.

which treats of the nature or character of demons or evil spirits.

Demonstration (dem-un-stra'shun), and Bostians were defeated by Philip, in a logical sense, and Greek liberty was crushed. On any mode of connecting a conclusion with the accession of Alexander, in 336, Demonstration with the accession of Alexander with t the accession of Alexander, in 836, Demosthenes tried to stir up a general rising against the Macedonians, but Alexander at once adopted measures of extreme severity, and Athens sued for mercy. It was with difficulty that Demosthenes escaped being delivered up to the conqueror. In 324 he was imprisoned on a false charge of having received a bribe from one of Alexander's generals, but managed to escape into exile. On the death of Alexander the next year he was death of Alexander the next year he was recalled, but the defeat of the Greeks by Antipater caused him to seek refuge in the temple of Poseidon, in the island of Calauria, on the coast of Greece, where he poisoned himself to escape from the emissaries of Antipater (322 B.C.). The character of Demosthenes is by most modern scholars considered almost spotless. His fame as an orator is equal to that of Homer as a poet. Cicero pronounces him the most perfect of all orators. He carried Greek prose to a degree of perfec-1839 at London, adopted art as a profession and achieved considerable fame in stained glass-work. In 1905 he commenced as a writer of fiction. His noves under his name sixty-one orations, some include Alice-for-Short, Joseph Vance (nearly 300,000 words). Somehow Good, It Never Can Happen Again, An Affair of the case a whole, or the body of people of the lower class as distinguished from those of rank, wealth, or position.

Demosthenes (de-most henes), a famous ancient Greek orator, the son of a sword-cutler at Athens, where he was born in 382 (according to some in 385) B.C. His father left him a considerable fortune, of which lis guardians at the age of seventeen carried Greek to method reached. Everything in his speeches is natural, Everything in his speeches is natural, Everything in his speeches is natural, we have he was concise, symmetrical. We have two for wigorous, concise, symmetrical. We have two for wigorous, concise, symmetrical. We have two regrows under his name sixty-one orations, some of which are not genuine. The great opponent—and indeed enemy—of Demosthers as a norator was Alechines, and a controversy with the latter called out one of the noblest efforts of the great orator. Demostheres (de-mos'th: or Enchodal), a simplification of the hieroglyphic was a contraction of the hieroglyphic tion which it never before had reached.

Demulcents soothe or protect the mucous membranes illuminating purposes, or other mechanagainst irritants. They are generally ical employment, the internal tax need composed of starch, gum, albuminous or not be paid. But to avoid taxation it oily substances largely diluted.

Demurrage (de-mur'aj) in maritime the addition of such unpalatable sublaw, the time during stances as wood alcohol, pyridin, benzois,
which a vessel is detained by the freighter, sulphuric ether, or animal oil. Thus
beyond that originally stipulated, in loading or unloading. When a vessel is thus
detained she is said to be on demurrage.

The name is also given to the compensaarea, 664 square miles, of which about a
tion which the freighter, beat to pay for fourth is arable. Along the N the ground. The name is also given to the compensar area, our square mines, or which about a tion which the freighter has to pay for fourth is arable. Along the N. the ground such delay or detention. Demurrage must is level, in the E. hilly, while the mounbe paid though it be proved the delay is tains in the s. and W. rise from 1000 to inevitable; but it cannot be claimed where 2500 feet. There are several beautiful

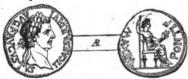
cause on that point; an issue on matter consist of lead, iron, coal, freestone, slate of law. A demurrer confesses the fact or and millstone. Flannels, coarse facts to be true, but denies the sufficiency and stockings are manufactured.

Denain (de-nan), a town of Northern ning and shoemaking are carried on France, dep. Nord, 6 miles Pop. 6892.

from Valenciennes. It stands in the center of a coal-field, and has ironworks,

Denderah (den'der-a; the Tentyre of the Greeks and Romans), etc. A great victory was gained here in 1712 by the French under Villars over the allies under Eugene and Albemarle. Pop. 22,845.

Denarius (de-nā'ri-us), a Roman silver coin worth 10 asses or 10 lbs. of copper originally, and afterwards considered equal to 16 asses, when the weight of the ass was reduced to an



Denarius of Tiberius Casar.

ounce on account of the scarcity of silver. figures resembling shrubs, trees, or mosses. The denarius was equivalent to about The appearance is due to arborescent 7%4. English money. There was also a crystallization, resembling the frostwork gold denarius equal in value to 25 silver on our windows. The figures generally

(dē-mul'sents), medi-United States Congress in 1907, on alcines which tend to cohol intended for use as fuel or for must be rendered untit for drinking by

inevitable; but it cannot be claimed where 2500 feet. There are several beautiful it arises from detention by an enemy, and fertile vales, among the more celetempestuous weather, or through the fault brated of which are the vales of of the owner, captain, or crew. The term Llangollen, Clwyd and Conway. Barley, is applied also to detention of railway oats and potatoes are grown on the uplands; and in the rich valleys wheat, Demurrer (de-mur'er), in law, a stop beans, and peas. Cattle and sheep are at some point in the pleadings, and a resting of the decision of the on to a considerable extent. The minerals cause on that point: an issue on matter consist of lead, iron coal freestop election. Flannels, coarse cloths The of the facts in point of law to support the principal rivers are the Clwyd, the Dec claim or defense.

A point of law to support the principal rivers are the Clwyd, the Dec claim or defense.

Pop. 144,796.—The claim or defense.

Demy (de'mI), a particular size of pafor the Vale of Clwyd, The Dec
and the Conway. Pop. 144,796.—The
county town Denbigh is near the center
per—in America, writing paper,
of the Vale of Clwyd, 25 miles w. of
16x21 inches; in Great Britain, printing
paper, 17½x22 inches; writing paper,
paper, 17½x22 inches; writing paper,
paper, eminence, the summit of which is crowned
paper, 17½x22 inches.

Next-and the Conway. Pop. 144,796.—The
county town Denbigh is near the center
per—in America, writing paper,
paper, of the Vale of Clwyd, The
county town Denbigh is near the conway.

16x21 inches; in Great Britain, printing
paper, of the Vale of Clwyd, The
county town Denbigh is near the county
paper the Conway. Pop. 144,796.—The
county town Denbigh is near the center
per—in America, writing paper,
paper in America, writing paper in America

Denderah (den'der-a; the Tentyre of the Greeks and Romans), an Arab village of Upper Egypt, on the left bank of the Nile, 28 miles x. of Thebes, celebrated for its temple dedicated to Athor, the Egyptian Venus, the best preserved of any of the great temples of antiquity in Egypt.

Dendermonde (den-der-mon'de), or TERMONDE, a town of Belgium, province of East Flanders, at the confluence of the Dender with the Scheldt, 12 miles N. W. from Brussels. It is strongly fortified, defended by a citadel, and surrounded, by low, marshy ground which can be laid under water. Manu-factures, woolens, linens, tobacco. etc. The town was taken by Marlborough in 1706. Pop. 9719.

(den'drit), a stone or Dendrite mineral, on or in which are appear on the surfaces of fissures and in Denatured Alcohol. Under a law joints in rocks, and are attributable to passed by the the presence of the hydrous oxide of man-

Dendrobium (den-dro'bi-um), an extensive genus of epiphytes dispersed over the damp tropical forests of Asia, order Orchidacese. They vary much in habit; many are cultivated Seine, 6 miles north of Paris, lying within hothouses on account of the beauty of in the lines of forts surrounding the captheir flowers.

ily Colubridæ, found in India and Africa, living on trees and feeding on reptiles. Dengue (deng'ga), a febrile epidemic disease of the West Indies and Southern United States, the symptoms of which are such as would accompany a mixture of scarlet fever and rheumatism.

Denham (den'am), Dixon, lieutenantcolonel and African traveler, was born at London in 1786; died at Sierra Leone, in 1828. In 1823-24 he was engaged, in company with Captain Clapperton and Dr. Oudney, in exploring restored royal tombs, with numerous other the central regions of Africa. Denham monuments, much stained glass, and monuments ern decoration. The church is about 354 Tchad, was wounded and separated from his company, but found his way home after great suffering, when he published his Narrative of Travels. In 1826 he set out from Rome on his sacred mission his Narrative of Travels. In 1826 he went to Sierra Leone as superintendent of the liberated Africans, and in 1828 was appointed lieutenant-governor of the colony.

Denham, SIR John, a poet, born at Dublin in 1615; died in 1689, and was buried in Westminster Abbey. In 1641 he first became known by his tragedy of The Sophy, and in 1642 he published his first edition of his most he published his first edition of his most celebrated poem, called Cooper's Hill. He of Dallas. It has cotton, cottonseed oil was subsequently entrusted with several and lumber mills, machine-shops, etc. confidential missions by the royalist Pop. 13,632.

party, and, being detected, fied to France. At the restoration, in 1660, he obtained the office of surveyor of the king's buildige. The pess and in 1835 conceived the idea of the published the restoration of the restoration o

Royal Society.

Denina (dā-nē'nā), CARLO GIOVANNI MARIA, an Italian historian, born in 1731 at Revello, in Piedmont. He became professor at Pinerolo, and afterwards at Turin, where he published the first three volumes of his History of Italian Revolutions (1769), containing a general history of Italy. In 1777 he went to Rome, and four years later to Berlin, where he was welcomed by Frederick the Great, an account of whose life

ganese, which generally assumes such a and Literary History of Greece, etc.—form.—Thread-like prolongations of nerve were written at Berlin. In 1804 he was cells bear the same name.

Dendrobium (den-drō'bi-um), an eximple of the control of the co in 1813.

Denis, St. (san deh-në), a town in France, department of the Seine, 6 miles north of Paris, lying withital. It contains the famous abbey church Dendrophis (den'dro-fis), a genus of of St. Denis, a noble Gothic structure, in harmless serpents, fampart dating from the eleventh century or earlier, but much was done in the way of restoration in the nineteenth century. St. Denis was the burial place of the kings of France; and all her rulers from Hugh Capet downwards, besides some of the earlier dynasties, lay there till 1793, when the revolutionary fury of the convention caused the tombs to be rifled and the church to be denuded. At the restora-tion Louis XVIII again sought out the relics of his ancestors, so far as they could be found, and had them buried here, and there is now again a long series of towards the middle of the third century, became the middle of the third century, became the first Bishop of Paris, and was put to death by the Roman Governor Pescennius. Catulla, a heathen lady converted by the sight of the saint's piety and sufferings, had his body buried in her garden, where the Abbey of St. Denis now stands.

Denison (den'i-sun), a city of Gray-son Co., Texas, 73 miles N. of Dallas. It has cotton, cottonseed oil

the office of surveyor of the king's buildings, and was created a knight of the Bath, and a fellow of the newly formed Royal Society.

Denina (dā-nē'nā), Carlo Giovanni gauge known by his name, organized the Maria, an Italian historian, Warren Watch Company, and placed the born in 1731 at Revello, in Piedmont. He became professor at Pinerolo, and in 1853. The factory was removed to afterwards at Turin, where he published the first three volumes of his History of mense development. He died in 1895

mense development. He died in 1895.

Denison, GEORGE TAYLOR, military author, was born at Toronto, Canada, in 1839. He entered the Canadian militia and became commander erick the Great, an account of whose life of the governor-general's bodyguard. His and reign he afterwards wrote. Most of History of Cavalry won a prize of 5000 his works—History of Piedmont, Political rubles, offered by the Czar of Russia.

Denmark Denizen

provinces or districts, besides the capital, nine of these making up Jutland, while the others embrace the islands.

elevation occurs, not exceeding 550 feet. railways both in Jutland and the islands. All the rocks belong to the upper series of Copenhagen, Asiborg, Aarhuus and the secondary and to the tertiary forma-Randers are the chief seaports. Owing tion. The rock most fully developed is the to the lowness of the land and its chalk, above which is an extensive boulder proximity to the sea on all sides, the formation containing seams of lignite. Climate is remarkably temperate for so Above this are thick beds of clay and northerly a region, though the thermommarl. Where this prevails, as in Seeland eter in winter may sink to 22° below and the east of Jutland, the soil is generally fertile; but where it is overlaid winds are frequent, and rains and fogs with deep beds of sand, as in the north prevalent, but the climate is favorable to and west of Jutland, the aspect is extremely desolate. Nearly the whole west tremely desolate. Nearly the whole west tremely desolate. Nearly the whole west coast, indeed, is rendered almost unin-vided, as the law interdicts the union of habitable by the drift-sand which has small farms into larger. Among crops formed an almost uninterrupted line of the greatest area is occupied by oats, sterile downs called Klitten, extending which are grown all over the country, but

Other works were Manual of Outpost from Cape Skagen (or The Skaw) to Duties, Modern Cavalry, etc.

Blanvands Hook. A large portion of Denizen (den'i-zn), in English law, Jutland consists of heathy or moory land, an alien who is made a subject by the sovereign's letters patent, exhibits a fertile, undulating surface. The holding a middle state between an alien islands, especially Seeland and Fünen, are and a natural-born subject. A denizen fertile and present many landscape cannot sit in either house of parliament or hold any civil or military office of trust.

Denmark (den'mark), a northern kingdom of Europe, consisting of a peninsular portion called Jutland, exist, however, especially Seeland and Fünen, are islands, especially Seeland and Fünen, are fertile and present many landscape beauties. The country was once covered with great forests, but these have disappeared, and Denmark is largely dependent on other countries for her supplies of timber. Woods of some extent still exist, however, especially in the islands. of timber. Woods of some extent still exist, however, especially in the islands of it and comprising the islands of Seeland (or Själland), Fünen (or Fyen), Laaland (or Själland), Fünen (or Fyen), Laaland (or Lolland), Falster, Langeland, Möen, Samsö, Lasö, Arrö, Bornholm, and many smaller ones. Besides there are the outlying possessions aspen and birch are met with in small of Iceland, Greenland and the Faroe numbers or singly. Pine forests have been islands in the Atlantic Ocean, and Santa West Indies. The area of the home possessions is 14,789 square miles (barely Guden, which flows northeast through half that of Scotland), of which Jutland Jutland into the Cattegat. It is navigable occupies 9755; the pop. in 1880 was for part of its course. Less important Iceland, part of Greenland, etc., the total the Stor Aa. All the others are insignifi-1,980,209; in 1910, 2,757,176. Including streams are the Holm, the Londorg and Iceland, part of Greenland, etc., the total the Stor Aa. All the others are insignifiared of the Danish possessions is 101,403 cant brooks and streamlets. The lakes square miles; pop. 2,585,662. Copenare very numerous but not large, the hagen is the capital; other chief towns largest not exceeding 5½ miles in length are Odense, Aarhuus, Aalborg, Randers by about 1½ miles broad. There are numerous by the capital posses Denmark is divided into eighteen penetrate far into the land. The largest provinces or districts besides the capital of these the Limitor Invited extension. of these, the Limford in Jutland, entering from the Cattegat by a narrow channel, winds its way through to the North the others embrace the islands.

On the south, Denmark is bounded by Sea, thus making northern Jutland really Germany and the Baltic; on the west it an island. In this fiord, which widens is washed by the North Sea; northwards out greatly in the interior and gives off it is separated from Norway by the various minor fiords, there are one large Skager Rack; eastward it is separated and various small islands. Intercourse from Sweden by the Kattegat and the between the various islands and parts of Sound. Denmark, whether insular or the kingdom, separated from each other mainland, is a very low-lying country, the by water, is well kept up by ferries, etc. eastern side of Jutland, where the highest and the country is well supplied with elevation occurs, not exceeding 550 feet. railways both in Jutland and the islands. All the rocks belong to the upper series of Copenhagen, Aalborg, Aarhuus and

vegetation.
The agricultural land is greatly subdi-

Denmark Denmark

best in Jutland. Barley is grown chiefly electors, cannot be elected as representin Seeland, and is largely used in brewing atives. At the head of the educational
beer, the common beverage of the country. institutions stand the University of
Rye is extensively raised, and the greater Copenhagen and the Holberg Academy at
part of the bread used in Denmark is
Soröe. The provinces are well supplied
made from it. Turnips, beans, peas, flax, with gymnasis and middle schools, and
hemp, hops, tobacco, etc., are also grown; primary instruction is given at the public
but in general cattle-breeding, grazing expense in the parochial schools. It is in Seeland, and is largely used in brewing beer, the common beverage of the country. Rye is extensively raised, and the greater part of the bread used in Denmark is made from it. Turnips, beans, peas, flax, hemp, hops, tobacco, etc., are also grown; but in general cattle-breeding, grazing and the dairy take up most of the farmer's attention in Denmark. The old Danish breed of horses, found chiefly in Jutland, has long been famous for strength.

and write, even among the poorer class.

The government of Denmark was origi-

and the dairy take up most of the farmer's attention in Denmark. The old Dansish breed of horses, found chiefy in Jutland, has long been famous for strength, symmetry, docility and bottom. The fisheries are still important, but not so much so as formerly. The herring, turbot, torsk and salmon are the most abundant. The manufactures, although progressing, are not yet of great importance. Paper, gloves, the woolens and searthenware of Jutland, the woolens and searthenware of Jutland, the woolens and searthenware of Jutland, the woolens and sting or lower house. The former is a senate of 60 members, twelve of whom are clocks of Bornholm, are the chief. There are also iron-foundries, sugar-refineries, and faretteen. The copie of their own hands. The commerce of Demmark is carried on chiefly with Great Britain, Germany, Norway, Sweden and Russia, Germany possessing the largest share, and Great Britain al title less than Germany, The value of imports was, 1912, \$219,083,000; resports, \$159,922,000. The chief imports are textile manufactures, metal goods, coal, timber, oil, coffee, sugar, tobseco, fruit, etc. The chief exports are cattle, horses and swine, butter (a most important item), bacon, hides, flour, eggs, and other edibles. Much of the butter and other agricultural produce goes to Britain. The mercantile marine has a total tonnage of about 550,000. The chief imports are textile manufactures, metal goods, for the series of the complex o

cended the throne in 1588, took part in the Thirty Years' war, and engaged twice in a war with Sweden, with most unfortunate results. Frederick III again engaging in war with Sweden in 1657 was equally unsuccessful. Christian V and Frederick IV were conquered in the war with Charles XII. Denmark, however, after the fall of Charles XII, gained by the Peace of 1720 the toll on the Sound, and maintained possession of Schleswig, and Prussia showing an and maintained possession of Schleswig. After this Denmark enjoyed a long repose. In 1800, having acceded to the northern confederacy, the kingdom was involved in a war with Great Britain, in which the Danish fleet was defeated at Copenhagen, April 2, 1801. In 1807, there being reason to think that Denmark would join the alliance with France, a British fleet was sent up the Sound to demand a defensive alliance or the surrender of the Danish fleet as a pledge of neutrality. Both were denied, and the Danish capital was bombarded and forced to capitulate, the whole fleet being delivered up to the British. The war, however, was conthe whole fleet being delivered up to the British. The war, however, was continued, Denmark forming new alliances with Napoleon until 1814, when a peace with Napoleon until 1814, when a peace was concluded by which she ceded Heligoland to England in exchange for the Danish West India Islands, and Norway to Sweden in exchange for Swedish Pomerania and Rügen, which, however, she shortly after surrendered to Prussia, receiving in return Lauenburg and a receiving in return Lauenburg and a pecuniary compensation. In June, 1815, the king entered into the German confederacy as representing Holstein and Lauenburg. In 1848 Schleswig and Holstein revolted and were not finally subdued till 1852. In 1857 the Sound dues were abolished. Frederick VII died

Canute died in 1035, leaving a powerful kingdom to his successors, who, in 1042, lost England, and in 1047 Norway. In 1047 Sweyn Magnus Estridsen ascended the throne, but with the exception of the great Waldemar the new dynasty furnished no worthy ruler, and the power of the kingdom decayed considerably till the accession of the politic Queen Margaret in 1387, who established the union of Calmar in 1397, uniting under her rule Denmark, Sweden and Norway. In 1448 Christian I, count of Oldenburg, was elected to the throne, thus founding the royal family of Oldenburg, which kept possession of the throne till 1863. Under the rule of Christian, Norway, Sweden, Schleswig and Holstein were connected with the crown of Denmark, but under his successor, Christian II, Sweden established the disputes resulted in the intervention of the German confederation, and ultimately Holstein was occupied by the Canute died in 1035, leaving a powerful in 1863 and with him the Oldenburg line Schleswig and Holstein were connected the disputes resulted in the intervention with the crown of Denmark, but under of the German confederation, and his successor, Christian II, Sweden established its independence. Under Frederick I (1523-33) the Reformation was introduced. Christian IV of Denmark ascended the throne in 1588, took part in the Thirty Years' war, and engaged twice in a war with Sweden, with most unfortunate results. Frederick III again engaging in war with Sweden in 1657 was difference now arose between Austria and

language belongs to the Scandinavian branch of the Teutonic family of lan-guages, and is a sister of the Swedish and Norwegian. It is written either in the Norwegian. It is written either in the German or the Roman characters. From the long union of Norway with Denmark, Danish became the written language of the Norwegians, and is still the language of the educated classes. The oldest literary monuments of the Danish language consist of the laws of the early kings in the twelfth century. Next to these come the heroic ballads (Kjāmperiser), some of which date from the thirteenth, others from the fourteenth, fifteenth and sixteenth centuries. They were collected while they still lived in the

mouths of the people, by A. S. Vedel. the names of Madvig, Westergaard, Rask Other ancient literary monuments probably belonging to the thirteenth century, are the Danish Rhyming Chronicle and a Danish translation of the Old Testament.

Dennewitz (de n'e-vits), a small Prussian village in the During the Reformation period Christian burg, famous for the battle between the Pedersen (1480-1554) did for the Danish French and Prussians, September 6, 1813, language much what Luther did for the in which the latter, aided towards the German, by publishing, besides other works, a translation of the New Testa-victorious. ment and the Psalter and later the complete Bible. The sixteenth and seventeenth centuries were distinguished by the London in 1657; died in 1734. Of inpublication of a number of works on the dependent means, he devoted himself to literature were some dependent of the publication of the dependent means, he devoted himself to literature were some dependent means. teenth centuries were distinguished by the publication of a number of works on the national history, among the writers of interest which we may mention Hans Svaning the elder, Arild Hvitfeld, Nils Krag, Vitus Bering, Ramus, etc. Modern Danish poets and poems, and at length settled down to elder, Arild Hvitfeld, Nils Krag, Vitus Bering, Ramus, etc. Modern Danish poets and poems, and at length settled down to elder, Arild Hvitfeld, Nils Krag, Vitus Bering, Ramus, etc. Modern Danish poets and poems, and at length settled down to clied the Reformation with hymns, Scriptural Dunciad, and Swift satirized him with dramas, edifying narratives, etc. Justesen merciless wit in his Narrative of the Derakach and Erik Pontoppidan the elder are among the chief names in this department. Anders Bording (died in 1677) and Thomas Kingo (died in 1723) made names as lyric poets, the sacred poems of the latter being a noble contribution to Danish literature. A new epoch began with Louis Holberg (1684-1754), who was the founder of the Danish stage, and his name and that of the lyric and dramatic poet a talent for the arts, he was appointed Ewald mark the brightest period of the mational literature. Among the comic damong song writers the celebrated Jens where he greatly improved his talent for was inspired into Danish poetry by Adam Oehlenschläger (1779-1850), contemporary with whom was Adolf Wilhelm Schack Staffeldt (1770-1826), a lyric poet, but afterwards turned literature, vrote some damatic dependent means, he devoted himself to literature, vrote some dramatic pieces and poems, and at length settled down to citicism. His irritability and rancorous literation in perpetual provided, and Swift satirized him with dramas, edifying narratives, etc. Justesen Literature, vrote some and poems, and at length settled down to citicism. His irritability and rancorous literation in perpetual provided, and Swift satirized him with dramas, edifying narratives, etc. Justesen Literature, vrote and poems, and at length settled down to criticism. H Severin Ingemann made his appearance, first as a lyric poet, but afterwards turned his attention to the drama, and later to ments in honor of the French successes. The names of Johan Ludwig Travels in Upper and Lower Egypt, finely Heiberg, Overskou, Hostrup, Erik Bögh and the more recent Molbech and Edvard Brandes, are well known. Among poets we may mention Heiberg, Andersen, England, and signifying the winding up or catastrophe of a plot, the solution of Rosenhoff; the modern school being represented by Carl Ploug, Drachmann and Gjellerup. Among those who have displayed a talent for novel writing are Ch. Winther, Carl Bernhard, Meyer Aron of equal bulk with another contained played a talent for novel writing are Ch. Godschmidt, Sten Stensen Blicher, who double the quantity of matter it is of describes common life in Jutland with poetic truth. Among other distinguished the same quantity of matter as another, modern writers we must mention Hendrik but under a less bulk, its density is great-Hertz, a lyric poet and dramatist; Hans er in proportion as its bulk is less than Christian Andersen, famous throughout that of the other. Hence the density is Europe for his stories; and Waldemar Thisted, a lyrist and novel writer of magnitude. The relative quantity of magnitude.

from conquered countries to the Louver, and superintended the erection of monuments in honor of the French successes. He died at Paris in 1825. He published Travels in Upper and Lower Egypt, finely

tities of matter in bodies are known by their gravity or weight, and when a body, mass, or quantity of matter is spoken of, mass, or quantity of matter is spoken of, ward. The Denies vulgaris, common in its weight or gravity is always underthe Mediterranean, sometimes attains the stood, that being the proper measure of length of 3 feet. Its general appearance the density or quantity of matter. The is not unlike the perch. It is esteemed weights of different bodies, of equal bulks, as an article for food. indicate their relative densities. The density of solids, fluids and gases, as compared with that of water, is their Specific teeth, of which there are various kinds in the density (which there are various kinds in Gravity (which see). As for the density of the earth, see Earth.

Dental Formula (den'tal for'm upon ment of symbols and numbers used to myrrh signify the number and kinds of teeth of ployed. a mammiferous animal. The dental formula of man is:

I. $\frac{2-2}{3-3}$, C. $\frac{1-1}{1-1}$, P.M. $\frac{2-2}{3-2}$, M. $\frac{3-3}{3-3}-32$, square number in

which is read thus: Two incisors on each side of both jaws, one canine tooth on each side of both jaws, two præmolars on each side of both jaws, and three true is divided.

Dentine (den'-tin), ca, the ivory tissue

Dentalium (den-ta'li-um), a genus of the ivory tissue this Cornics.

The shell of which consists of a tubular the body of a tooth. It consists of an arcuated cone open at both ends, and organic basis disposed in the form of resembling the tusk of an elephant in extremely minute tubes and cells, and miniature. There are many species, of mineral matter, arcuated cone open at both ends, and resembling the tusk of an elephant in miniature. There are many species, known by the common name of tooth-

Dentaria (den-tă'ri-a), coral-root, a Dentaria (dent-ta ri-a), corarroot, a genus of plants, nat. order Cruciferse. There are about twenty species, natives of temperate countries. They are ornamental herbs, with creeping, singularly toothed root-stocks, from which they receive the names of coral-root and toothwort. The stem-leaves are opposite toothwort. The stem-leaves are opposite or in whorls of three, and the flowers are large and purple. D. bulbifëra, the only British species, is a rare plant in the southeast of England. D. diphylla, or pepperwort, a North American species, has roots that are used as mustard.

Dentatus (den-tă'tus), MANIUS CURIUS, an ancient Roman general of Sabine descent. In B.C. 290 he prought to a victorious termination the

brought to a victorious termination the

They have conical teeth, and those immediately in front are long and hooked inward. The Dentes vulgaris, common in

the form of tooth-powders, tooth-washes, or tooth-pastes. Cuttle-fish bone, finely powdered chalk, and charcoal are common dentifrices. Rhatany, catecha, mon dentifrices. Rhatany, catecha, myrrh and mastic are also often em-

Dentils (den'tils), in architecture, the little cubes resembling teeth,

into which the the bed-mold-ing of an Ionic,

Dentirostres (den't i-ros-tres), a tribe of birds of the order Insessores or Perchers, including Shrikes, Butcher-birds, etc., characterized by having a notch and tooth-like process on each side of the margin of the upper mandible. They are rapacious and prey on weaker birds.

Dentistry (den'tis-tri), the art of cleaning and extracting teeth, or repairing them when diseased. teeth, or repairing them when diseased, and replacing them when necessary by artificial ones. There are two very distinct departments in dentistry, the one being dental surgery, the other what is known as mechanical dentistry. The first requires an extended medical knowledge on the part of the practitioner, as, for instance, a knowledge of diseases whose effects may reach the teeth of the conficted may reach the teeth of the conbrought to a victorious termination the war with the Samnites, which had lasted for nearly fifty years. In B.C. 275 he defeated King Pyrrhus at Beneventum, for which he received a magnificent triumph. In B.C. 274 he was made consult for the third time and conducted to a successful issue the last war with the southern Italians. He died about B.C. 270.

Dentex (den'teks), a genus of acanthopterygious fishes of the family of the Sparids, or sea-breams. effects may reach the teeth, of the conĸ

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ess requiring considerable muscular pow- and silver mining districts of the State er and delicacy of manipulation. The and the chief center of the coal trade. second department, mechanical dentistry. The city is well built, and contains is concerned with the construction of among its institutions, the State capitol artificial substitutes for lost teeth, and and the University of Denver. It is situartificial substitutes for lost teetn, and and the University of Denver. It is shortened at an elevation of 5280 feet, and the climate is peculiarly dry and salubrious. teeth a perfectly natural appearance in shape and color. The actual construction of the teeth, however, has passed 213,381; in 1914, est. 240,000. largely into the hands of the manufacturers, and the dentist has only the selecting, fitting and fixing to do. In the United States the Baltimore College of Dental Surgery is the oldest devoted to this art, being chartered in 1839; the Ohio College of Dental Surgery followed in 1845; the Philadelphia College of Surgery in 1850; the Philadelphia Dental College in 1863; the New York College of Dentistry in 1865, and various others at later dates. The American Journal and Library of Dentist Science was established in Baltimore in 1839. Every state has now its State Dental Society; besides national organisations, of which the American Dental Association is among the most important. The art of dentistry has had an important development in the United States, having greatly advanced within recent years.

Dentition (den-tish-un), the cutting Dentition (den-tish-un), the cutting and and Bruni Island. It affords good shelter and anchorage to ships. (2) D'Entrecasteaux Isles, a group lying a considered only a variety. It is native to the Himalayas and yeldes important. The art of dence the contingual of the contingual and anchorage to ships. (2) D'Entrecasteaux Isles, a group lying a continuation (de-nd-da'shun), in geollargely into the hands of the manufac-turers, and the dentist has only the se-

eenth century.

center for the farming and mining regions of Colorado and New Mexico. In its vicinity are some of the largest smelting works of the country. It has also large manufacturing and jobbing interests, including the car shops of four lines of Timothér, a notorious French character, railroad. It is the emporium of the gold chevalier, doctor of law, diplomatist, etc.,

Deobstruents (d ë-o b' s t r ö-ents), medicines which open

and is now a common ornamental tree.

Denudation (de-nu-da'shun), in geology, the act of washing away the surface of the earth by water, either in the form of constant currents or of occasional floods.

Denver (den'ver), an industrial and commercial city, capital of the State of Colorado, on the right bank of the South Platte River, 15 miles east of the Rocky Mountains. It is the junction of eight important railway systems, and is now a common ornamental tree. See Cedar.

Deodorizers (de-o'd e r - I z-ers), chemical substances which have the power of destroying fetid effluvia, as chlorine, chloride of lime, etc.

Deogarh (da-o-gar), the name of two towns in Hindustan: (1) In Bengal, 170 miles N. w. of Calcutta, with a group of temples to which have the power of destroying fetid effluvia, as chlorine, chloride of lime, etc.

Deogarh (da-o-gar), the name of cutta, with a group of temples to which have the power of destroying fetid effluvia, as chlorine, chloride of lime, etc.

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Deogarh (da-o-gar), the name of two towns in Hindustan: (2) In Oodeypore Rajputana.

Pop. 686 Cedar.

himself in the Seven Years' war, then high reputation as an orator and for the went to London as secretary of the rich vein of humor in his after-dinner French legation, and ultimately became speeches. French legation, and ultimately became minister plenipotentiary. Having quarreled with the French government, he lived fourteen years in London in a kind of banishment. During these years he had occasionally dressed and passed as a juice is used for bird-lime.

(dep'hal; Artocarpus La-koocha), an Indian tree of the same genus as the breadfruit and jack, and cultivated for its fruit. The had occasionally dressed and passed as a juice is used for bird-lime. female, and about this time his sex began to be doubted. In 1777 he returned to Prance, was ordered to dress as a woman, the hair from the body, especially the

doctrine of ethics.

Department (de-part'ment), a subdivision of executive government, under a subordinate officer. In the United States the government embraces the departments of state, justice, interior, war, navy, treasury, postoffice, agriculture and commerce and labor, the heads of which form the Advisory Cabinet of the President. The government is conducted in three separate departments—the legislative, judicial washed in warm water.

Deponent (de-po'nent), (1) in grammar, a verb passive in form but active or neuter in signification. (2) In law, a person who makes an affidavit, or one who gives his testimony in a court of justice; a witness upon oath.

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In law, a person who makes an affidavit, or one who gives his testimony in a court of justice; a witness upon oath.

Deposit (de-poz'it), in law, something given or entrusted to another of the performance of government is conducted in three separate deportments.

Washington C. De l'auw. Deside van de liberal arts there were schools of medicine, law, theology, pedagogy, pension in water.

Muschington C. De l'auw. Deside van de liberal arts there were schools of medicine, law, theology, pension in water.

Deposition (de-pō-zish'un), in law. the testimony given in the testimony given in at present operating. There were in 1914 court by a witness upon oath. It is also used to signify by way of answer to interrogatories. Depositions are free interrogatories. Depositions are free interrogatories.

1882 and president in 1885, and also parture before the time for the trial to became president of the West Shore R. R. be held. became president of the West Shore R. R. Deposition of a Clergyman, Actively engaging in politics, he was Deposition of a Clergyman, successively secretary of state for New the degradation of a clergyman from of-York and minister to Japan, and refice, divesting him (in churches which ceived 100 votes for President in the Redo not, like the Church of Rome, hold the publican National Convention of 1888, indelible nature of orders) of all clerical In 1899 he was elected United States character. See Deprivation.

born in 1728. He afterwards distinguished Senator from New York. He gained a

France, was ordered to dress as a woman, and continued to do so both there and face and scalp, without injuring the texafter he returned to England (in 1785), ture of the skin. The celebrated rusms being then regarded by everyone as a depilatory consists of quicklime and orpiment (tersulphuret of arsenic) boiled Deontology (de-on-tol'o-ji), or the in water impregnated with a strong alkaterm useu by certain philosophic schools on the parts, which are afterwards (Bentham, Spencer, etc.) to denote their washed in warm water.

government is conducted in three separate departments—the legislative, judicial In commerce, a deposit is generally either
and executive. The country is subdivided
into military departments, each under an
officer appointed by the President.

De Pauw (de-paw'), a university situdoged in security for loans. In the first
case interest is usually paid to the defounded by the Indiana Conference of the
Methodist Episcopal Church in 1837, and
Methodist Episcopal Church in 1837,

Depew (de-pū), CHAUNCY MITCHELL, interrogatories. Depositions are frequently taken conditionally, or de bene Peekskill, New York, in 1834. He studied law and became prominent as a railthe parties are sick, aged, or going road lawyer. He was made vice-president of the New York Central R. R. in in court in case of their death or de-

Dépôt (då'pō or dep'ō), a French moreland, in the vicinity of Wordsworth word in general use as a term and Southey, and devoted himself to for a place where goods are received and literary work. Here or in London he stored; hence in military matters, a remained till 1828, reading voraciously, magazine where arms, ammunition, etc., and writing for the London Magazine, are kept. The term is now usually applied to those companies of a regiment which remain at home when the rest are 1828 to 1840 he lived in Edinburgh, then away on foreign service.

Deputy, one who exercises an office Khan on both sides of the Indus, and has an area of 9296 square miles, and a pop. of 252,379. The town is two legislative chambers in France and 17,737.

In unstrict lies north of that of Dera Ghazi Khan on both sides of the Indus, and has an area of 9296 square miles, and a pop. of 252,379. The town is two legislative chambers in France and 31,737.

In unstrict lies north of that of Dera Ghazi Khan on both sides of the Indus, and has an area of 9296 square miles, and a pop. of 252,379. The town is 1,737.

In unstrict lies north of that of Dera Ghazi Khan on both sides of the Indus, and has an area of 9296 square miles, and a pop. of 252,379. The town is 25,779.

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two legislative chambers in France and in Italy, elected by popular suffrage, and corresponding in some respects to the House of Commons in Britain, and the House of Representatives in America. See France, Italy.

De Quincey (de quin'si), Thomas, and comprising Dera Ghazi Khan, Dera Ismail Khan and Bannu; area 22,315 sq. miles. It is well watered and fertile, and contains numerous son of a Manchester merchant, born at Greenhay, near Manchester, in 1785. In 1793 his father died, leaving the family a fortune of £30,000. After attending for some time the Bath and Manchester city of the government of Daghestan, grammar schools, where he showed precocious ability, especially in classical precocious ability, especially in classical send him to Oxford University, and on being refused he ran away from school, send him to Oxford University, and on being refused he ran away from school, refrings at this time he has described in his Confessions of an English Opium Eater. At length, in 1803, he matriculation between the place of Derbyshire, on the least at Oxford and it was in the second Derwent here consend by an elegant. his Confessions of an English Opium Eater. At length, in 1803, he matriculated at Oxford, and it was in the second Derwent, here crossed by an elegant year of his course here that he began bridge of three arches, 115 miles N. N. W. to take opium in order to alleviate London. It is pleasantly situated in severe neuralgic pains. On leaving a wide and fertile valley open to the college he settled at Grasmere, West-south, and is well and regularly built

which remain at home when the rest are away on foreign service.

Deprivation

(dep-ri-va'shun), the removing of a clergy-man from his benefice on account of heresy, misconduct, etc. It entails, of course, loss of all emoluments, but not the loss of clerical character.

De Profundis (de pro-fun'dis), in the liturgy of the Roman Catholic Church, one of the seven penitential psalms, the 130th of the Psalms of David, which in the Vulgate begins with these words, signifying, 'Out of the depths.' It is sung when the bodies of the dead are committed to the grave.

Deptford (det'ford), a parliamentary borough, England, in the counties of Kent and Surrey, on the sive manufacturers of pottery, chemicals, soap, etc. The old naval dockyard was shut up in 1869, but the royal victualling yard is still the largest establishment of its kind. Pop. (1911) 109,498.

Topputy one who exercises an office

and St. Werburgh, the county hall, year a difference of opinion with his school of art, infirmary, etc. There is party as to the diversion of the surplus also a very handsome free library and museum. The principal manufactures museum. The principal manufactures are silk, cotton, paper, articles in Derbyshire spar, castings, porcelain, etc. Derby is one of the oldest towns in the kingdom, and is supposed to owe its origin to a Roman station, Derventio, situated at Little Chester, on the opposite side of the river. Under the situated at Little Chester, on the op-posite side of the river. Under the Danes it took the name of Deoraby. Richardson, the novelist, was a native of the town. Pop. 123,433.—The county of Derby, or Derbyshire, in the center of the kingdom, area, 1029 square miles, five-sixths being arable or in permanent pasture. The southern and eastern parts have a fertile soil, while the north-western portion is bleak, with a rocky and irregular surface. Here is the

in the modern quarter. It has some fine warmly advocated the abolition of public buildings, among which are the slavery, and passed the act for this churches of All Saints, St. Alkmund purpose in 1833; but in the following



pasture. The southern and eastern parts have a fertile soil, while the northwestern portion is bleak, with a rocky and irregular surface. Here is the loftiest range of the English Midlands, the mountains of the Peak. The Peak itself is 2000 feet high. The principal rivers are the Derwent, the Trent, the Wye, the Erwash, the Dove and the Rother. Oats and turnips are important crops, and dairy-busbandry is carried on to a large extent. Coal is abundant in various parts of the county, iron ore is also plentiful, and lead, gypsum, zinc, funced ministries, and again in 1863. fluorspar, and other minerals are obtained. The manufactures are silk, berby joined to great ability as a statescotton and lace, machinery and agricultural implements. Pop. (1911) 560,129 in the Tories. In 1851 and 1858 he resigned on Peel's motion for repeal of the corn laws. In 1851 and 1858 he resigned office. Early in 1868 he resigned on Peel's motion for repeal of the corn laws. In 1851 and 1858 he that corn laws. In 1851 and 1858 he resigned on Peel's motion for repeal of the corn laws. In 1861 and 1858 he resigned on Peel's motion for repeal of the corn laws. In 1861 and 1858 he resigned on Peel's motion for repeal of the Whaven of the corn laws. In 1862 hand a failty in 1862 he resigned on Peel's motion for repeal of the Whaven of the corn laws. In 1863 hand again in 1863 hand again in 1863 hand again in 1863 hand after wards and the manufacture of pins, heavy cast under secretary of state for India. Under machinery, etc. Pop. 10,000.

Derby Edward Georgers** Smith the principal industries are agriculture and the manufacture of pins, heavy cast under secretary of state for India. Under machinery, etc. Pop. 10,000.

Derby Edward Georgers** Smith the principal industries are agriculture and the principal industries are agriculture and the principal industries are a

Brakil, on which he has written many Dermatophyte (der-mat'o-fit), a valuable papers.

annual London holiday, Cryptogamia, infesting the cuticle and on which the horse-race for the stakes instituted by Lord Derby in 1780 is run. giving rise to various forms of skin-distakes falls on a Wednesday. The case, as ringworm, etc.

Dermestes (der-mes'tez) The entry-money for each subscriber is species of which (D. lardarius) is known fifty guineas, and the stakes are run for by the name of bacon-beetle, and is often by colts of three years. The entries are found in ill-kept ham or pork shops. so numerous that the value of the stakes **Dermot Mac Murrach** (der mot reaches several thousand pounds. On Epsom Downs, on the Derby Day, are assembled all classes, high and low.

Derbyshire. See Derby.

Derbyshire Neck. See Goiter.

Derbyshire Spar. See Fluorsper.

Derecske (de-rech'ke), a town of Hungary, in the county of Bihar. Soda is obtained from the neigh-

Bihar. Soda is obtained from the neighboring swamps. Pop. 8767.

Dereham (der'am), East, a town in England, nearly in the center of the county of Norfolk, with manufactures of agricultural implements, iron-foundries, and a brisk trade. The poet Cowper was buried in the church here. Pop. 5729.

Therelief (der'e-likt) a vessel or any unleading trades.

to a ship abandoned by the crew and left also used. floating about.

Derg, LOUGH (loug derg); (1) a lake of Ireland, county of Donegal, about 3 miles long by 2½ broad at the broadest part, and studded with islets, one of which, called Station Island, has long been a great resort of Roman Catholic pilgrims; (2) an expansion of the river Shannon between County Tipperary and Counties Clare and Galway, about pleasure.

24 miles long and averaging 2 miles in Derry. See Londonderry. breadth.

(der-i-vā'shun). Etymology. Derivation

Dermestes (der-mes'tez), a genus of coleopterous insects, one species of which (D. lardarius) is known

Dermot Mac Murragh (der'mot murra), the last Irish king of Leinster, attained the throne in 1140. Having carried off the wife of O'Ruarc, prince of Leitrim, he was attacked by the latter, and after a contest of some years driven out of Ireland (1167). He then did homage to the English king, and with the help of Richard, Earl of Pembroke, re-covered his kingdom, but died in the same pear (1170), and was succeeded by Pembroke, who had married his daughter.

Derna (der'na), a town in Barca, on the north coast of Africa.

Derrick (der'ik), a lifting apparatus consisting of a single post or pole, supported by stays and guys, to which a boom with a pulley or pulleys is attached, used in loading and Derelict (der'e-likt), a vessel or any-unloading vessels, etc. Floating derricks thing relinquished or aban-of the strongest construction, with an doned at sea, but most commonly applied immense boom and numerous blocks, are

Derrick-crane (der'ik krān), a kind the advantages of the common derrick and those of the ordinary crane. The gib of this crane is fitted with a joint at the foot, and has a chain instead of a tension-bar attached to it at the top, so that the inclination, and consequently the sweep, of the crane, can be altered at

Derham (der'am), WILLIAM, an English philosopher and divine, born in 1657; died in 1735. He was long medan devotee, distinguished by auster-rector of Upminster in Essex. His best-known works are entitled Physico-Theology, Astro-Theology and Christo-Theology.

Soo of them of the orders of them. Some live in monasteries, others lead an itinerant life, others devote the medical temperature. See others devote themselves to menial or arduous occupations. They are respected Derma (der'ma), DERMIS, the true by the common people, and the men-skin, or under layer of the dicants among them carry a wooden bowl skin, as distinguished from the cuticle, into which the pious cast alms. One of skin, as distinguished from the cuticle, into which the pious cast alms. One of epidermis, or scarf-skin.

Dermatology (der-ma-tol'ō-ji), the building about, another is shouting or which treats of the skin and its diseases. panied by violent motions of the body, till



diseases.

rivers in England, in Derbyshire, Yorkshire, Durham and Cumberland, respectively, the last draining Derwentwater Lake. Also a river in mortally wounded by a cannon shot.

Tasmania.

Desault (de-so), Pierre Jorepul. one
Tasmania.

of revolt having been raised in Scotland, Lord Derwentwater commenced the movement in England on October 6, 1715, but was forced, along with the other composition which preceded the more Jacobite nobles, to surrender at discretion on November 13th. He was exigen ing into existence at the end of the ecuted on Tower Hill, February 24, 1716, his estates being confiscated, and in 1735

the army as a private soldier, distin-commencing, was born March 31, 1506, puished himself highly, and was eventu- at La Haye, in Touraine. He was ally transferred to the civil service, in educated at the Jesuit College of La which he obtained the highest offices. In Flèche, where he showed great talent.

they work themselves into a frenzy and 1803 he retired from public life and desometimes fall down foaming at the voted himself entirely to poetry. One mouth. They are credited with miracu- of his most beautiful poems is the Ode lous powers, and are consulted for the Bog, or Address to the Deity. He died in 1816.

Desaguadero (des-a-g wa-da'ro), a river of Bolivia, in a valley of the same name, issuing from Lake Titicaca, and carrying its waters into Lake Aullagas. Also a river in the Argentine Confederation flowing into Lake Bevedero Grande, and separating the provinces of San Juan and Mendoza. Desaguadero signifies in Spanish channel of outle.

Desaix de Veygoux (dé-să de vă-CHARLES ANTOINE, a distinguished French general, born in 1768 at St. Hilaire d'Ayat, in Auvergne. He was of noble family, and entered the army as a sublicutenant. He distinguished himself greatly in 1794 under Pichegru, and two years later with the army of the Rhine under Moreau. In 1797 he acompanied Ropaparte to Egypt, and was Traveling Dervish of Khorasan interpretation of dreams and the cure of diseases.

Traveling Dervish of Khorasan interpretation of dreams and the cure of diseases.

Khine under Moreau. In 197 he accompanied Bonaparte to Egypt, and was very successful in reducing Upper Egypt.

After the Treaty of El Arish he followed Bonaparte to Italy, took command Derwent (der'went), the name of four of the corps of reserve, and, arriving on the field of Marengo at a critical model.

Derwentwater, or Keswick Lake, beautiful lake in geons of France, was born in 1744, and Cumberland, England, in the vale of died in 1795. After some experience in Keswick. It is about 3 miles in length the military hospital at Béfort he went and 1½ in breadth, and stretches from to Paris in 1764, studied under Petit, and Skiddaw on the north to the hills of two years afterwards became a lecturer Borrowdale. Near the northeast corner on his own account. His reputation soon Borrowdale. Near the northeast corner is the celebrated cascade of Lodore. Its increased, and he became principal surwaters are carried to the sea by the Derwent.

Derwentwater, JAMES RATCLIFFE, Hotel Dieu in Paris. Here he founded a surgical school, in which many of the horn at London in 1689. The standard of revolt having been raised in Scotland, Lord Derwentwater commenced the move-

Descant (des'kant), in music, an addition of a part or parts to a

Perzhawin (de r-zh ä'vin), GABRIEL Romanowitch, a Rusmathematician, with whom the modern or sian lyric poet, born in 1743. He entered a mathematician, with whom the modern or new philosophy is often considered as the result of the considered as a sian lyric poet, born in 1743. He entered a mathematician was born March 21 1508

Deserter Descent

advancement of mathematics and physics. paternal and maternal, and therefore two The higher departments of geometry were greatly extended by him. His system of also a distinction of collateral kindred, the universe attracted great attention in into those of the whole blood and those his time, though long since exploded. It rested on the hypothesis of celestial vortices, immense currents of ethereal matter, by which he accounted for the motion of the planets (Principia Philosophiæ, 1644). His works effected as 5 broad. The soil is in some places great revolution in the principles and methods of philosophizing. In 1647 the French court granted him a pension of 3000 livres, and two years later, on the invitation of Christina of Sweden. he went to Stockholm, where he died in 1650.

went to Stockholm, where he died in plains such as are found in Asia and Descent (de-sent'), in law, is the Africa, but which may also be used to transmission of the right designate any solitude or uninhabited and title to lands to the heir, on the place whether barren or not. See Sahara decease of the proprietor, by the mere and Gobi.

Operation of law. The rule determining Describer (de-zer'ter), a soldier or to whom an estate belongs, on the decease of the proprietor, is that of consanguin-without leave. Describer are tried by ity, or relationship by blood, though with court-martial, which may inflict death as of the proprietor, is that of consanguin-without leave. Deserters are tried by ity, or relationship by blood, though with court-martial, which may inflict death as some exceptions, as in the case of the extreme punishment, or a less severe portion, or the use of a portion, of a punishment, according to the circumman's property given by the laws to his stances of the case.

Ile entered the military profession and served in Holland and in Bavaria. In what relations shall inherit, and their 1621 he left the army, and after a variety respective shares, will be determined by of travels finally settled in Holland, and the genius and policy of the government devoted himself to philosophical inquiries. The government is not insistencies in which other philosophers wherever the government is founded in had involved themselves, determined to family privileges, or very intimately conbuild up a system anew for himself, nected with them, as is the case in all divesting himself first of all the beliefs governments where the hereditarily arishe had acquired by education or otherwise, and resolving to accept as true only what could stand the test of reason. Families will very probably be a characteristic feature in the code of laws. (Meditationes de Prima Philosophia) Thus, in Britain, all the lands of the that there was one thing that he could not doubt or divest himself of the belief of, and that was the existence of himself as a thinking being, and this ultimate favor of the eldest son. In the United of, and that was the existence of himself as a thinking being, and this ultimate favor of the eldest son has been abolished, certainty he expressed in the celebrated and the laws there are founded upon the phrase 'Cogito, ergo sum' (I think, therefore I am). Here, then, he believed he real and personal estate among heirs of had found the test of truth. Starting the nearest surviving degree. Kindred in from this point Descartes found the same blood are divided into three general kind of certainty in such propositions as classes, viz. I, descendants; 2, ancestors; these: that the thinking being or soul 3, collateral relatives, that is, those who differs from the body (whose existence have descended from the same common consists in space and extension) by its ancestor. The civil law computes the simplicity and immateriality and by the degrees by counting the generations up to freedom that pertains t to the idea of an absolutely perfect being; relative, as brother, cousin, etc., making and from this last idea he deduces all the degree of relationship the sum of and from this last idea he deduces an the degree of relationship the sum of further knowledge of the truth. Dest these two series of generations. Every cartes also contributed greatly to the person has two sets of ancestors, the advancement of mathematics and physics. paternal and maternal, and therefore two

Desful. See Dizful.

Deshoulières (dă-söl-yār), Antol-NETTE DU, LIGIER DE LAGARDE, a French lady of much literary Desmidiaceae (des-mid-i-a'se-e), Des-reputation in the seventeenth century;

agents, such as chloride of calcium, quicklime, oil of vitriol and fused carbonate
of potash.—Desiccation cracks, in geology, are the fissures caused in clayey
beds by the sun's heat, and seen in
various rock strata.

Design (dezīn'), thought, arrangetion or invention in works of art. A
domination or invention in works of art. A
a record of a first thought; or it may be
a fully matured work, as a cartoon in
preparation for fresco painting, or a
furning to illustrate a book.

Design, SCHOOLS OF, schools where
of the ween schools of technology, in which the designing is of strictly
methanical nature, architecture excepted,
and schools for the training of artists who
devote themselves to the fine arts.
The courses in the schools of design vary in
detail, but generally include free-hand
drawing; the theoretical principles of
decoration and the history of art, espedecoration and the history of art, espedrawing; the theoretical principles of
decoration and the history of art, espedecoration and the history of art, espedecoration and the history of art, espedesign in its decorative aspect; copying
and variation of designs; original designing for textile fabrics, wall-paper, stainedglass, pottery, leather work, book covers.

Desmodium (des-mo'di-um), a cpulse
plant.

Des Moines (de moin), a manufaccounty, on the Des Moines River, about
County, on the Des Moines River, about
County, on the Des Moines River, about
County, on the Des Moines (de moin), a capital of the State of Iowa and of Polk
County, on the Des Moines (de moin), a capital of the State of Iowa and of Polk
County, on the Des Moines (de moin), a capital of the State of Iowa and of Polk
County, on the Des Moines (de moin), a capital of the State of Iowa and of Polk
County, on the Des Moines (de moin), a capital of the State of Iowa and

dumb has reached a high development.

Desman (des'man). See Musk-rat.

born in 1634; died in 1694. She was the of microscopic, fresh-water, confervoid center of attraction in the best circles of Algæ. They are green gelatinous plants the period, and was elected a member of composed of variously forced cells havthe period, and was elected a member of several learned societies. Among her ing a bilateral symmetry, which are works are odes, eclogues, idyls, and a tragedy, Genseric.

Desiccation (des-i-kā'shun), a process of dispelling moistinous coat. Desmidiacese differ from Diatomacese in their green color and abagents, such as chloride of calcium, quicklime, oil of vitriol and fused carbonate of potash.—Desiccation cracks, in geological potash.—Desiccation cracks cra

or 1762, was conspicuous during the first (1804) was declared emperor with the period of the French revolution. He was title of Jacques I. But his rule was among the most notable of the pamsavage and oppressive, and, October 17, phleteers and orators who urged the mutli
1806, he was slain by one of his soldiers. Having become closely connected with Danton and the party of opposition to Robespierre, and inveighing against the reign of blood and terror, he was arrested on the order of the latter on March 30, 1794, tried on the 2d of April, and executed on the 5th.

cuted on the 5th.

Desna (dyes-na'), a river in Russia, which rises in the government of, and about 50 miles east of the town of Smolensk, flows through the governments of Orel and Tchernigov till it igoins the Dnieper near Kiev. It is 500 miles in length and navigable nearly throughout.

Etc. Fop. 10, 10.

Destendhal. See Beyle, Marse-Henri.

Desterro (des-ter'o), now Florianapolis, a seaport of Brazil, capital of the province of Santa-Catha-orium. The harbor is, next to that of Riomailes in length and navigable nearly throughout.

De Soto (de so'to), HEBNANDO, a Spanish explorer and dis-coverer of the Mississippi, born about 1496; died in 1542. He accompanied ex-peditions to the New World under Davila and Pizarro, and played a distinguished part in the conquest of Peru. In 1530 he led an expedition to Florida, whence after many difficulties he penetrated to and beyond the Mississippi. Here he was attacked with fever and died.—The name De Soto has been given to a county in the n.w. of Mississippi, in the locality of his discovery of the Mississippi River.

De Soto, a city of Jefferson Co., Missouri, 43 miles s. by w. of St. Louis. Lead, zinc and tiff ore are produced in the vicinity, and it has railroad machine shops, a large shoe factory. Exports grain, lead and tiff. Pop. 4721.

Despot (des pot; Greek, despotés), originally a master, a lord; at a later period it became an honorary title a later period it became an honorary title which the Greek emperors gave to their sons and sons-in-law when governors of provinces. At present despot means an absolute ruler, as the Emperor of Russia, and in a narrower sense a tyrannous

Dessalines (dā-sa-lēn), Jean Jacques Emperor of Hayti, born in Africa about 1760, was a slave in 1791, when the insurrection of the blacks occurred in that island, but was set free along with the other slaves in St. Domingo in 1794. His talents for war, along with the other slaves in St. Detinue (det'i-nû), in law, the form Domingo in 1794. His talents for war, his courage, and unscrupulous conduct tiff seeks to recover a chattel personal raised him to command in the insurrec- unlawfully detained. tions of the colored people, and after the deportation of Toussaint L'Ouverture, and the subsequent evacuation of the island by the French, Dessalines was appointed governor-general for life with and an old palace (or castle), good public absolute nower; and the room following library museum at a life the substitute of the substitute tions of the colored people, and after the deportation of Toussaint L'Ouverture,

Dessau (des'ou), a town in Germany, capital of the duchy of Anhalt, in a beautiful valley on the left bank of the Mulde, mostly well built, with fine squares and many handsome buildings. The manufactures consist of woolens, woolen yarn, carpets, machinery, tobacco, etc. Pop. 55,134.

Destroyer. A small, well-armed and very fast war-vessel originally designed to overtake and destroy torpedo boats (which see), but in the European war employed for navy scout duty and for the destruction of submarines and other minor naval work.

Destutt de Tracy (da-til de tra-LOUIS CLAUDE, a French philosophical writer, born in 1754, of a family of Scottish extraction; died in 1836. As a philosopher he belonged to the Sensationalist school and considered to school, and considered all our knowledge to be derived originally from sensation. Among his chief works are *Idéologie* (1801), *Logique* (1805), *Traité de la Volonté* (1815).

Detachment (de-tach'ment), a body the main army for some special service.

Detaille (dā-tà'y), JEANNE BAPTISTE EDOUARD, a French military and historical painter, born in Paris, October 5, 1848; died there, December 24, 1912. He was a pupil of Meissonier.

Determinism (de-tèr'min-izm), a philosophical theory of troops selected from

which holds that the will is not free, but is invincibly determined either-according to the older form of the theory—by a motive furnished by Providence, or—according to the modern form—by the aggregation of inherited qualities and tenders. dencies.

absolute power; and the year following library, museum, etc. In the vicinity a

with a loud report, owing to one or more Detroit River, or STRAIT OF ST. of the constituent parts, suddenly assumstrait of North America, which runs from ing the gaseous state. The chloride and Lake St. Clair to Lake Erie. It is 28 iodide of nitrogen are very powerful det-miles long, and of sufficient depth for the onating substances. The compounds of navigation of large vessels. It is about % ammonia with silver and gold, fulminate mile wide opposite Detroit and enlarges of silver and of mercury detonate by as it descends. An immense lake trade slight friction, by means of heat, electric-passes through it. ity, or sulphuric acid.

Detonating Tube, a species of eudiometer, being a stout glass tube used in chemical anatise for detonating gaseous bodies. It is generally graduated into centesimal parts, and perforated by two opposed wires for the purpose of passing an electric spark through the gases which are introduced into it, and which are confined within it over mercury and the perforation of the Hellens. According to tradition, he saved himself and his wife.

of the Wabash, Lake Shore, Canadian Pacific, Detroit, Toledo and Ironton and Deperous and beautiful city, with wide to those books of Scripture that were adstreets, 31 parks, the largest being 705 mitted into the canon after the rest, some acres in extent, and a Boulevard, 12 miles of them being regarded by Protestants as long encircling the central portion of apocryphal.
the city. Its principal public buildings

Deuteronomy (du-ter-on'u-mi), the
are the Federal Building, City Hall, and 000,000. Of this nearly half is in auto-admonition not previously given, an acmobiles and their parts and accessories. count of the death of Moses. See Other large branches of manufacture are Pentateuch.

colossal statute has been erected to the freight cars, adding machines, pharmaceucolossal statute has been erected to the freight cars, adding machines, pharmaceu-famous warrior Hermann or Arminius tical preparations, stoves, sooda ash and who overthrew the Roman general Varus kindred alkalis, packing products, tobacco and his legions in a battle which was fought near this place. Pop. 13,164.

Detonating Powders (d e t'u-nāt-ing), certain chemical compounds which, on being exflar in 1760 and the American flag in posed to heat or suddenly struck, explode with a loud report owing to one or more the liver or Strait of St.

a species of eu
Dettingen (det'ing-en), the name of several places in Germany,

water.

Detritus (de-tri'tus), in geology, small Pyrrha, from a deluge which Zeus had fragments of matter worn sent upon the earth by building a ship off or detached from solid bodies by which rested upon Mount Parnassus. attrition, distinguished from débris, which To repair the loss of mankind they were Detroit (de-troit'), the metropolis of mind they were directed by an oracle to throw stone behind them, which became men and women.

troit River the greatest waterway in the Deus ex Machina (mak'i-na; L. 'a world, the tonnage passing through it being over 70,000,000 tons yearly. The city has a frontage of 11 miles on Detroit resorting to supernatural causes to ex-River and 4 miles on the River Rouge, a plain phenomena that one is not able to navigable estuary. Its railroad transportation facilities are covered by five phrase is taken from the practice on the lines of the Michigan Central system, four classical stage of introducing a god from of the Grand Trunk and two of the Père above by means of some mechanical confirmation. nouement of the plot.

Deuterocanonical (d u'ter-5-), a

County Building. It has also a large the Pentateuch, so called (Greek, public library with eight branches and a deuteros, second; nomos, a law) from its museum of art. Its prosperity is based consisting in part of a restatement of the chiefly on its manufactories which numbers as already given in Exodus, Leviticus ber 2500 employing 150,000 hands and Numbers, and containing also, in with a product in 1913 valued at \$410, addition to special commands and Deutz (doits), a town in Prussia, on the right bank of the river Rhine, opposite the city of Cologne, with which it communicates by a bridge, and

aceæ, containing seven or eight species, all of which are interesting from the beauty of their flowers, some of them

presence of iron. In modern ships, in ignorance and unable to account for which iron is largely used in construction, and especially in battleships, deviation of the compass is a serious source innumerable stories were told of his apost trouble, one difficult to overcome, and pearance, and his attributes—the horns, calling for various and complex arrange—the tail, cloven foot, etc.—distinctly dements of this directive implement. The scribed. In consequence of the cures gyro-compass is now much employed for which Christ and his apostles performed this purpose, the principle of magnetic on the possessed, the early church be-

attraction being replaced by the effect of rapid rotation. In this the compass is inclosed in a vacuum and rotating at great speed produces inertia, the revolving body vigorously retaining the direction of its axis of movement while at the which it communicates by a bridge, and great speed produces inertia, the revolvities with which city it was incorporated in 1888. It is strongly fortified as part of the defenses of Cologne—forming in fact, a tete-du-pont. There are some manufactories of porcelain and glass, also an tecomes the same as that of the earth, iron-foundry, machine-works, and a large establishment for the construction of magnet. The gyro-compass is now used on all commercial ships, battleships and Deutzia (dut'zi-a), a genus of plants, of the magnet. It points to the true pole acew, containing seven or eight species of the magnet of the magnet.

of the magnet.

Device (de-vis'), a name common to all figures, ciphers, characters, characters, which are adopted

all of which are interesting from the beauty of their flowers, some of them favorite garden and greenhouse plants. The control of their flowers, some of them favorite garden and greenhouse plants. The control of their flowers and greenhouse plants. The control of the favorite garden and greenhouse plants. The control of the favorite garden and greenhouse plants. The control of the favorite garden and greenhouse plants. The control of the favorite garden and greenhouse plants. The control of the favorite garden and greenhouse plants. The control of the favorite garden and greenhouse plants. The control of the favorite garden and greenhouse plants. The control of the favorite garden and greenhouse plants. The control of the favorite garden and greenhouse plants. The control of the favorite garden and greenhouse plants. The control of the favorite garden and greenhouse plants. The control of the favorite garden and greenhouse plants. The control of the favorite garden and greenhouse plants. The control of the favorite garden and favorite garden and favorite garden and greenhouse plants. The course of the favorite garden and greenhouse plants. The course of devision of the matches all figures, cinhers, characters, althe was, mottoes, etc. which are adopted by a person or a family by way of badge or distinctive emblem, often a representation of some natural body, with a mottor or sentence applied in a figurative sense.

Devil (dev'il; Greek, diabolos, a slanderer or accuser), in theology, an evil spirit, favorite emblem, often a representation of some natural body, with a mottor or sentence applied in a figurative sense.

Devil (dev'il; Greek, diabolos, a slanderer or accuser), in theology, an evil spirit. The devil one, represented in Scripture as the traducer, father of lies, etc. Most of the vil ore, represented in Scripture as the vil ore, represented in Scripture as the vil ore, represented an evil principle and vil religions of the East acknowledge a host of devils. The doctrine of Scripture on this vil religi shire and Banfishire, 60 miles long.

Deviation of the Compass, and the mythology of the pagans. The ance of a ship's compass from the true excited imaginations of hermits in their magnetic meridian, caused by the near lonely retreats, sunk as they were in presence of iron. In modern ships, in ignorance and unable to account for which iron is longely median in generally and the mythology of the pagans. The excited imaginations of hermits in their magnetic meridian, caused by the near lonely retreats, sunk as they were in presence of iron. In modern ships, in ignorance and unable to account for activated an account for activated an account.

lieved in a power connected with the con- tribes. Remains of it are found from the secration of priests to drive out evil Danube, in Bavaria, to Bonn on the spirits. (See Exorcism.) The belief in Rhine. evil spirts, witches, etc., was in the seventeenth century so common that they be-

being the angler (which see). Among and also worship the sun.

others the name is given to several large species of ray occasionally captured on disposition of real estate by disposition of real estate by ica, and much dreaded by divers, whom gift by will, whether of real or personal them in their vast wings.

Devil's Bridge (Teufelsbrücke), a famous bridge in Switzerland, over the Reuss, built of stone from mountain to mountain, 75 feet in length, on the road over St. Gothard, from Germany to Italy.

Devil's Dust, a name sometimes ap-goods when torn up into their original fibers, to be woven again into new fabrics, called shoddy.

Devil's Punchbowl, a small lake of I reland,

Devil-worship, the worship paid to the devil, an evil came the objects of judicial process. spirit, a malignant deity, or the per-With the progress of the natural sciences, sonified evil principle in nature, by many however, in the cighteenth century many of the primitive tribes of Asia, Africa wonderful phenomena became explained, and America, under the assumption that and less was heard of witchcraft.

The process of the primitive tribes of Asia, Africa wonderful phenomena became explained, and America, under the assumption that the good deity does not trouble himself bevil, the machine through which cot-about the world; or that the powers of Devil, the machine through which cot- about the world; or that the powers of ton or wool is first passed to evil are as mighty as the powers of good, prepare it for the carding-machines; a and have in consequence to be bribed teasing-machine.

Devil, Tasmanian. See Dasyure.

Russian Armenia and the valley of the Tasmanian the proposed to the Carding-machine to the carding-machines. Devil-fish, the popular name of va- Tigris, who pay respect to the devil, to rious fishes, one of them Christ, and to Allah or the supreme being,

them in their vast wings. During gales of wind or from strong currents these induced in the property immense fish are driven into shoal water, and being unable to extricate themselves, miles west by south of London. The fisherman, who obtain considerable quantities of oil from their livers.

Devil's Advocate. See Advocatus

See Advocatus

See Advocatus

Bestate.

Devizes (de-vi'zez), a town in England, county of Wilts, finely situated on a commanding eminence, 82 name is derived from the Latin divise cient castle of Devizes was built at the meeting-place of three different manora Agricultural envines and implements are Devil's Bit, the common name of made, and malting is carried on. Pop. (Scabiosa succisa). nat order Distriction of three different manors. Agricultural engines and implements are made, and malting is carried on. Pop. (Scabiosa succisa). nat order Distriction (1911) 6741.

(Scabiosa succisa), nat. order Dipsaceæ. It has heads of blue flowers nearly globular, and a fleshy root, which is, as it were, cut or bitten off abruptly. The sweet scabious is a well-known fragrant the English Channel and its southern on the English Channel; area, 2586 square miles, the county being the third largest of England. From Exeter to the confines of Cornwall extends the wide and barren tract called Dartmoor; but the vale of Exeter, comprising from 120,000 to 130,000 acres, and the south extremity of the county called South Hams, limited by a line drawn from Torbay to Plymouth Sound, are among the most fertile districts of England. Tin, lead, iron, copper, manganese, granite and the clay used by potters and pipemakers are the chief mineral products. The geological formation of the Old Red Sandstone is so largely near the Lakes of Killarney, between developed that the term Devonian has posed to be the crater of an ancient to some extent become its synonym. Agriculture is in a somewhat backward Devil's Wall, in the south of Ger-state, owing, probably, to the general pref-many, a structure erence given to dairy husbandry, for which was originally a Roman rampart, which the extent and richness of its grass intended to protect the Roman settlements lands make the county most suitable. on the left bank of the Danube and on Wheat, barley, beans, peas and potatoes the right bank of the Rhine, against are the principal crops. About three-the inroads of the Teutonic and other fourths of the county are under crops or Wheat, barley, beans, peas and potatoes

m pasture. There is a large trade in River. butter, cheese, and live stock and the March, clotted cream and cider of Devonshire Confedere well known as specialties of the escaped county. Pop. (1911) 701,981.

Devonian System (de-vo'ni-an), in geology, a name originally given to rocks of Devonshire and Cornwall, intermediate between the Silurian and Carboniferous strata, and consisting of sandstones of different colors, calcareous slates and limestones, etc. They are divided into lower, middle and upper groups, all containing fossils, but the middle most abounding in them, including corals, criptoids, crustscens, moleuding corals, criptoids, crustscens, moleucing corals, criptoids, crustscens, molecular criptoids, crustscens, molecular criptoids, crustscens, molecular criptoids, cript cluding corals, crinoids, crustaceans, mollusca (especially brachiopods), and cephalopods. Devonian rocks occupy a large area in Central Europe, as well as in the United States, Eastern Canada and Nova Scotia. The term has been often used as equivalent to Old Red Sand-

Devonport (dev'un-port), a municipal and parliamentary borough and port of England, county of Devon. It has no special trade beyond that connected with the dockyards and government works. Pop. (1911) 81,694.

Devonshire. See Devon.

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3

Dew (dt) is a deposition of water from Dew (du) is a deposition of water from the atmosphere upon the surface of the earth in the form of minute globules. The earth absorbs heat during the day; at sunset its supply is cut off, but the radiation continues. Grass and foliage, being radiators, lose their heat, and the moisture of the atmosphere is con-

15,000.

De Wet, Christian Rudolf, born in 1854, was the chief commandant of the Orange Free State army during the Boer War (1899-1902). In this long-drawn-out contest he distinguished himself by great ability and daring. Though many efforts were made to capture him, he always succeeded in outwitting his pursuers, General Roberts and Kitchener, and at the end of the war was still at large. His book, Three Years of War, was published in 1902.

Dewey, General Roberts were made to capture him, he always succeeded in outwitting his pursuers, General Roberts and Kitchener, and at the end of the war was still at large. His book, Three Years of War, was published in 1902.

Dewey, General Roberts were made to capture him, he always acceeded in outwitting his pursuers, General Roberts and Sweeter berry than the common blackberry.

De Witt, Jan, grand-pensionary of Statesman and for his tragic end, was statesman and for his tragic end, was statesman and for his tragic end, was the son of Jacob de Witt, burgomaster of Dort, and was born in 1625 or 1632.

Dewey, General Roberts were herry than the common blackberry.

De Witt, Jan, grand-pensionary of Dort, and was born in 1625 or 1632.

He became the leader of the political party opposed to the Prince of Orange, and in 1652 was made grand-pensionary. In 1665 the war with England was renewed and conducted by De Witt with the Mississippi, which, under Farragut, great ability till its termination in 1665.

River. This vessel running aground in March, 1863, and being exposed to a hot Confederate fire, Dewey fired her and escaped with the crew. He took part in the two attacks on Fort Fisher, and continued in active service after the war, being made captain in 1884. In 1885 he was sent to command the flagship Pensacola, European squadron, and in 1888 was appointed Chief of Bureau of Equipment and Recruiting, with the rank 1888 was appointed Chief of Dureau of Equipment and Recruiting, with the rank of commodore. Commissioned commodore in 1896, he was placed in 1898 in command of the Asiatic squadron, and on May 1, after the declaration of war against Spain, fought the Battle of Managainst Spain, fought the destroying the ila, silencing the forts and destroying the Spanish fleet, without the loss to himself of a man or ship. On May 11, Congress unanimously adopted a resolution of thanks, granted him a sword of honor unanimously adopted a resolution of thanks, granted him a sword of honor and placed him on the active list as rearadmiral. On August 13, he, in conjunction with General Merritt, attacked Manila, reduced it and took possession. In February, 1899, he was given the rank of admiral, previously borne only by Farragut and Porter. He died Jan. 16, 1917.

Dewey John, an American psychologist and educator, born in Burlington, Vermont, October 20, 1859. He studied at the University of Vermont and Johns Hopkins University, and has held the position of professor of philosophy in the Universities of Michigan, Minnesota, Columbia and Chicago. His published works include Psychology (1886), Study of Ethics (1894), School and Society (1899), Studies in Logical Theory (1903). He is generally considered as the pioneer of the pragmatic movement in America.

Dewberry (du'beri; rubus casius),

and the museum densed by contact therewith.

Dewas (dā-wās'), a state of Central India. Pop. 142,162. Its capital, of the same name, has a pop. of to the order Rosaces, and to the same genus as the bramble. The American dewberry (rubus Canadensis) derives this name from the dew-like bluish bloom which covers the fruit. It abounds in a larger

Netherlands and involved. Holland in rotate to the left, are called lavo-comwar. De Witt's popularity, already on pounds, the decline, suffered still further in the troubles thus occasioned, and he felt it troubles thus occasioned, and he felt it recessary to resign his office of grand-pensionary. At this time his brother Cornelius, who had been tried and put to torture for conspiring against the life of the young Prince of Orange, lay in prison. Jan de Witt went to visit him, when a tumult suddenly arose among the people, and both brothers were murdered, August 20, 1672. De Witt was a man of high character, simple and modest in all clustering round the island of Dhalak elhis relations.

Degful (dēz/föl). See Dizful.

Dhalak (dhā-lak'), an archipelago of the Red Sea, off the coast of Abyssinia. It consists of nearly 100 rocks and islets, mostly uninhabited, bis relations.

in the air takes place. When the temperature of the air has been reduced by radiation to the dew-point, dew is deposited and an amount of heat set free which raises the temperature of the air. Pop. (1901) 142,115. The capital is of Thus the dew-point will indicate what the minimum temperature of the night is likely to be, a knowledge of which is useful to the horticulturist.

Dewsbury (duz'ber-i), a town of Riding of Yorkshire, and 30 miles southwest of the town of York, chiefly engaged in the manufacture of heavy woolen cloths, including blankets, carpets, rugs, flannels, baizes, etc. Pop. (1911) 53, 358.

Dayter (deks'tar) Dew-point, the temperature at which condensation of the vapor

Dexter (deks'ter), a term meaning on the right-hand side, chiefly used in heraldry. The deater chief point is a point in the right-hand

the plane of a ray of polarized light to the Gulf of Cambay. Pop. about 10, rotate to the right. Dextrine itself, dextroglucose, tartaric acid, malic acid, cinthonine, and many other bodies have this property; while others, which have the opposite effect, of causing te plane to Gujarat. Pop. about 15,000.

Dextrose (deks'tros), a grape-sugar (w name for

Dharmsala (därm'sa-la), a hill station with military cantonments, in Kangra district, Punjab, India. Pop. 6971.

The dexter chief point is a point in the right-hand upper corner of the shield, being in the dexter chief.

Dextrine (deks'trin; Calliols), the soluble or gummy matter cantonments at 2 miles' distance. Pop. or by heat. It is remarkable for the extent to which it turns the plane of polarization to the chief.

or by heat. It is remarkable for the extent to which it turns the plane of polarization to the right hand, whence its name. Its composition is the same as dukhuensis). It is distinguished from that of starch. By the action of hot diluted acids dextrine is finally converted into grape-sugar. It is white, having one molar fewer in either side of verted into grape-sugar. It is white, having one molar fewer in either side of the lower faw. It is of a fox-red or insipid, and without smell. It is a good substitute for gum-arabic in medicine.

Dextro-Compounds (deks'trō), bodies which cause the plane of a ray of polarized light to rotate to the right. Dextrine itself, dex-

Dholpur (1901) 270,973.

Dhulia (dö'le-ä), a town of Hindu-

Dhulia (do'le-a), a town of Hindustan, Khandesh district, Bombay Presidency. Pop. about 25,000.

Dhurra, an millet, the seed of Sorghum vulgāre, largely grown in India and after wheat the chief cereal crop of the Mediterranean region, being largely used in those countries by the laboring classes for food. Varieties are grown in many parts of Africa, one of them known as Kaffir corn. It does not make good bread, but is excellent for puddings and is prepared for food in various ways. The plant is closely allied to the sugar came and is cultivated in the United States as a source of sugar.

Diadrets (uya-ule-ra), less, a mountain group of the Bernese Alps, Switzerland, between Canton Vaud and Canton Valais. The highest peak heas a height of 10,620 feet.

Diacaustics (di-a-kas'tiks). See Gaustic (in optics).

Diachylon (df-ak'i-lon), a substance gether oxide of lead or litharge, olive-oil and water, until the combination is complete, and replacing the water as it be basis of many plasters.

Diacoustics (di-a-kas'tiks). See Graustic (in optics).

Diachylon (df-ak'i-lon), a substance gether oxide of lead or litharge, olive-oil and water, until the combination is complete, and replacing the water as it substance and is the basis of many plasters.

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Diacoustics of lead or litharge, olive-oil and water, until the combination is complete.

Diacoustics of lead or litharge, olive-oil and water, until the combination is complete. a source of sugar.

Diabetes (dia-be/tez), a disease of which the most remarkable by having their stamens united in two symptoms are: a great increase in the quantity of urine, a voracious appetite, a stoppage of the cutaneous perspiration, thirst, emaciation, and great muscular debility. In true diabetes (diabetes silk, linen, or wool, worn round the mellitus) the composition of the urine is temples and forehead, the ends being tied also greatly affected, an abundance of saccharine matter (diabetic sugar) being in old representations of the diadem of found in it. This disease usually attacks persons of a debilitated constitution and often without any obvious cause. Tea, coffee, dry wines, spirits and bitter ale may be drunk. Milk should be taken only paringly. The disease is essentially a chronic one, though it may quickly end in death. Research and experiment in the search have resulted in the discovery that dispates is due to a defect in the Analysis of the Indian Bacchus. Subsequently it was equivalent to crown or coronet.

Diæresis (di-e're-sis), a separation of one syllable into two; also the mark (...) which shows that in death. Research and experiment in the search have resulted in the discovery that diabates is due to a defect in the coronic one of the Indian Bacchus. Subsequently it was equivalent to crown or coronet.

Diæresis (di-e're-sis), a separation of one syllable into two; also the mark (...) which shows that in death. Research and experiment in a second vowel is to be pronounced, as the Bacchus is due to a defect in the discovery that diabates is due to a defect in the discovery that the Rockefeller Institute of Medical Research have resulted in the discovery that diabetes is due to a defect in the operation of the pancreas, causing the development of excess dextrose, a form of sugar, in the blood. A cure has also been announced. The basis of the remedy is bicarbonate of sodium with a small amount of salt. In extreme cases this may be symptoms; the discovery of the true nagiven hypodermically. The treatment is simple and consists almost entirely in starving out the disease. Carbohydrates or foods containing starch are eliminated tween the opposite angles of a quadrifrom the patient's diet and a normal supply of fats and proteins alone is allowed. Diagonal Scale a measuring scale ply of fats and proteins alone is allowed. Diseases of the lungs are apt to attack a

(döl'pör), a native state of of 8 or 10 per cent., and in some cases Central India, Rajputána; more.

Diablerets (dya-ble-rā), LES, a mountain group of the Bernese

sounds as they are refracted by passing

a source of sugar.

Diabase (di'a-bās), a diorite or greenstone, a fine-grained, crystalDiadelphia (dI-a-del'fi-a), the name
given by Linneys to his Diabetes (dia-be'tez), a disease of which the most remarkable by having their stamens united in the symptoms are: a great increase in the stamens united i

Diagonal Scale, a measuring scale which consists of diabetic person and must be carefully a set of parallel lines drawn on a ruler, guarded against. diabetic person and must be carefully a set of parallel lines drawn on a ruler, with lines crossing them at right angles Diabetic Sugar (d I-a-b e t'ik), the and at equal distances. One of these diabetic urine. It is identical with extremity of the ruler, is subdivided into starch-sugar, grape-sugar, etc. It is not a number of equal parts, and lines are a constituent of normal urine, but in drawn through the points of division diabetes it may be present to the amount obliquely across the parallels. With the



parallel with the earth's axis, and may be considered as coinciding with the axis of the diurnal rotation. Consequently as the sun moves westwards the shadow

help of the compasses such a scale medium of intercourse between well-facilitates the laying down of lines of educated people. Although the use of provincial dialects becomes inconvenient after a language has acquired a fixed literary standard, the study of such dialects is always valuable to the philologist for the light they throw on the history of the language. The diffusion of education and of printed books has much relaxed the hold which the provincial dia-Diagonal Scale.

Diagonal Hard of princes book has has much relaxed the hold which the provincial dialects of various countries once had of the people, and in general it may be said that the educated classes of any country now any required length to the 200th part of any required length to the 200th part of an inch.

Diagoras (dI-ag'o-ras), an ancient Greek poet and philosopent, who flourished about 425 B.C. He spent a great part of his life in Athens. Like his teacher Democritus, he attacked the prevailing polytheism, and sought to substitute the active powers of nature for the divinities of the Greeks. On this account he had to leave Athens.

Dialogram (dI'a-gram), a figure or Tiagoram (dI'a-gram), a figure or foliated structure. Its subspecies are green diallage, hypersthene and bronsite.

Diagram (d' a-gram), a figure or foliated structure. Its subspecies are geometrical delineation apgreen diallage, hypersthene and bronsite plied to the illustration or solution of The metalloidal subspecies is called plied to the illustration or solution of geometrical problems, or any illustrative figure in which outlines are chiefly presented, and the details more or less omitted.

Dial (dl'al), or Sun-dial, an instrument for showing the hour of the day from the shadow thrown while the shining by a stile or gnomon upon

ay from the shadow thrown which the shadow thrown which the surface or more persons. The word is used the Egyptians, Chaldeans and Hebrews. more particularly for a formal conversation in theatrical performances, and for From those eastern nations it came to tion in theatrical performances, and for the Greeks. It was introduced into Rome a written conversation or composition in the Greeks. It was introduced into Rome a written conversation or composition in during the first Punic war. Dials are of which two or more persons carry on a various construction, horizontal, inclined, discourse. This form was much in favor or upright, the principle in every case among the ancient philosophers as a being to show the sun's distance from the medium for expressing their thoughts on meridian by means of the shadow cast by subjects. The Dialogues of Plato are the the stile or gnomon. The stile is made finest example. Many of the great French parallel with the earth's axis, and may and Italian writers have used this form. Landor's Imaginary Conversations is the best production of this kind in English. of the diurnal rotation. Consequently as the sun moves westwards the shadow of the stile moves round in the opposite direction, falling on the meridian lines to marked as to represent the hours of the day. The dial of course gives solar time, which, except on four days of the year, is slightly different from that of a which diffuse with difficulty or not at all, well-regulated clock. Dials are now bodies resembling glue or gelatin, such rather articles of curiosity or ornament than of use.

Dialect (di'a-lekt), the language of a part of a country, or a distant colony, deviating either in its grammar, vocabulary, or pronunciation, from the language of that part of the common country whose idiom has been adopted as the literary language, and the

of magnetism and freely suspended, take or magnetism and freely suspended, take of a diamond is indeed by cutting a position at right angles to the magnetic facets upon it inclined at certain angles meridian, that is, point east and west, to each other so as to produce the greatest From the experiments of Faraday it appossible play of color and luster. What pears that all matter is subject to the is called the brilliant cut best brings out pears that all matter is subject to the is called the *oritinant* cut best brings out magnetic force as universally as it is to the beauty of the stone. Its upper or the gravitating force, arranging itself into two great divisions, the *paramagnetic* by many facets. But this form of cutting and *diamagnetic*. Among the former are requires an originally well-shaped stone. iron, nickel, cobalt, platinum, palladium, For other diamonds the *rose* cut is titanium, and a few other substances; used. In this form six triangles are and among the latter are bismuth, cut on the top so that their apices meet antimony cadmium corpors cold lead in a roint called the summit Bound. antimony, cadmium, copper, gold, lead, mercury, silver, tin, zinc and most solid, liquid and gaseous substances. When a paramagnetic substance is suspended freely between the poles of a powerful horseshoe magnet it points in a line from one pole to the other, which Faraday terms the axial line. On the other hand, when a diagmagnetic substance is suswhen a diagnagater substance is suspended in the same manner it is repelled alike by both poles, and assumes an equatorial direction, or a direction at right angles to the axial line. It has been supposed that the diamagnetic phenomena are a result of the superior magnetic force of the oxygen of the

Diamantina (de-a-man-te'na), a town of Brazil in the diamond district in the province of Minas Geraes, the inhabitants of which are almost all engaged in the gold and diamond trade. Pop. 17,980.

Diamonds, rough and variously cut.

Diamonds, rough and variously cut.

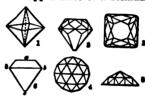
Otherwise the province of a rose-cut diamond; in Fig. 5 the flat portion a in a cut stone is

opposite points of the circle cumference. It thus divides the circle into two equal parts, and is the greatest chord. The length of the diameter is to the length of

able of gems, and the purest form in which the element carbon is found. (See Carbon.) It crystallizes in forms be-longing to the regular or cubic system, the most common being the regular monds are octahedron and rhombic dodecahedron (sands, c (twelve faces). The finest diamonds are washing.

In a short time all the crystalloid bodies colorless, perfectly clear, and pellucid. will have passed through the membranous septum into the pure water, while the colloid matter will remain almost or yellow, and such are highly prized entirely in the dialyzer.

Diamagnetic (di-a-mag-net'ik), a out. The hardness of the diamond is such that nothing will scratch it, nor stances which, when under the influence can it be cut but by itself. The value of a diamond is much enhanced by cutting of a diamond is much enhanced by cutting cut on the top so that their apices meet in a point called the summit. Round this are disposed other facets. Stones which are too thin to cut as rose-diamonds are cut as table-diamonds, which have a very slight play of color. In the cut Fig. 1 is the diamond in its rough state; Fig. 2 is the vertical, and Fig. 3 the lateral appearance of a brilliant; Fig.



trade. Pop. 17,980.

Diameter (dI-am'e-ter), the straight called the table; the part a b b, which center of a circle, and touching the two opposite points of the circle into two equal the diamond ynameter (all-am'e-ter), the straight called the table; the part a b b, which opposite points of the circle into two equal the diamond was unknown in Europe till reserve and is the greatest the fifteenth century and the sterne itself. the fifteenth century, and the stone itself was not nearly so highly valued in the middle ages as the ruby. Diamonds are the circumference of the circ valuable for many purposes. Their cle as 1 to 3.14159265. . . . powder is the best for the lapidary, and the latter number being an interminable decimal.

Diamond (di'a-mond), the hardest of window and plate glass. When used and one of the most valuas as a glazier's tool the diamond must be a supersonable form in uncut. Inferror kinds of diamonds are uncut. Inferior kinds of diamonds are also extensively used by engineers in rock-boring (see *Boring*), and by copperplate engravers as etching-points. Diamonds are obtained from alluvial deposits (sands, clays, etc.), being separated by washing. They are found in India,

Borneo, and other parts of the East; sometimes in N. America and Australia; sometimes in N. America and Austrana; but the chief diamond fields of to-day are Brazil and Cape Colony, the center of the latter being Kimberley in Griqua Land West. Diamonds were first discovered in the latter in 1867, but since then the output has amounted to over \$200,000,000 in value. One of the largest diamonds known (weight 367 carats) was found in Borneo about a century ago, and belongs to the Rajah of Mattan. ago, and belongs to the Rajah of Mattan. One of the most celebrated is the Kohinoor (Mountain of Light), belonging to the British crown. It weighed originally nearly 800 carats, but by subsequent recuttings has been reduced to 103% carats. The Orloff diamond, belonging to the Emperor of Russia, weighs 195 carats; the Pitt diamond, among the French crown jewels, 136½. The former, which came from India, has been thought to have originally formed part of the Kohinoor stone. The largest Brazilian diamond weighed 254½ carats and was cut to a brilliant of 125. Some of the South African diamonds are also very large, one being found in 1893 weighing 971 carats, or nearly half a pound. More large, one being found in 1893 weighing 971 carats, or nearly half a pound. More recently a much larger one has been found, weighing 3034 carats. This has been cut into eleven pieces, the largest, a drop brilliant, weighing 516½ carats. This, called the Star of South Africa, has been placed in King George's generater. has been placed in King George's scepter, and another, of 309 3-16 carats, in his crown.

Diamond, in technical language, is the rhomboid—that is, a quadrangle with equal sides and two obtuse angles.

Diamond-beetle, the Entimus imperialis, a splendid coleopterous insect belonging to the family Curculionidæ or weevils.

Diamond-drill. See Boring.

Romans latterly identified with the nor combined with the style and stigma, ous attributes in common, being the virgin goddess of the moon and of the latterly identified with the style and stigma, nor separated from the pistil.

Dianthus (dI-an'thus), the genus of flowers to which the pink chase, and having as attributes the cres- belongs.

cent moon, bow, arrows and quiver. The name is a feminine form of Janus. She seems to have been originally the patron divinity of the Sabines and



Diana.-Antique statue in the Louvre.

Latins. She was worshiped especially by women as presiding over births, no man being allowed to enter her temple. See Artemis.

Diana-monkey (C e r c o p i thècus Diana), a species of monkey found in Africa, and so named from the crescent-shaped band on the forehead resembling the crescent moon, which was the symbol of Diana.

which was the symbol of Diana.

Diana of Poitiers, Duchess of Valentinois, born in 1499. She was the mistress of King Henry II of France and descended from the noble family of Poitiers, in Dauphiny. At an early age she married the Grand-seneschal of Normandy, Louis de Pracé became a widow at this trope. Diamond Harbor, a port on the Hugli River, about 38 miles by the railway from Calcutta, formerly much used as an anchorage for ships waiting for the tide.

Diamond Necklace, an affair some note in French history immediately preceding the Revolution. See Antoinette, Marie; La Motte; and Rohan, Louis.

Diana (df-an'a). in mythology, an ancient Italian goddess whom the stamens are neither united at their base, Romans latterly identified with the comprehending with the style and stigma.

Diapason (dI-a-pā'zun), in music, the cure, mild purgatives given in small doses concord of the first and last and accompanied by quantities of mild notes of an octave. The word is also diluents being frequently successful used for the most important foundationstops of an organ. They are of several most generally applicable. The food used for the most important foundation—tops of an organ. They are of several most generally applicable. The food kinds, as open diapason, stopped diapason, should be of the least stimulating kind. double diapason. The French use the term as equivalent to pitch in music.

Diastase (di'as-tas), a substance exterm as equivalent to pitch in music. double diapason. The French use the term as equivalent to pitch in music.

Diaper (di'a-per), a kind of textile potatoes, but only after germination. When in solution it possesses the propared napkins, and formed either of linen or cotton, or a mixture of the two, upon the surface of which a flowered or figure transforming it first into dextrine and ured pattern is produced by a peculiar then into sugar. It is obtained by dimentation diaper is applied to a surface water and one of alcohol, at a temper-covered with a flowered pattern sculpstant for the open air, and then putting the whole

Diaphoretics (d f-a-f o-r e t' i k s) are agents used in medical practice for producing a greater degree of perspiration than is natural, but less than in sweating. The Turkish bath and a large part of hydropathic treatment, dil-uent drinks, etc., are employed for this substances of transmitting radiant heat. purpose. Diaphoretics increase only the Bodies that are equally transparent, that insensible perspiration, while sudorifics is, bodies which have equal power of excite the sensible discharge called sweat. transmitting rays of light, are very dif-Diaphragm (dl'a-fram), in anatomy, ferent in their power of transmitting heat Diaphragm (dl'a-fram), in anatomy, a muscular membrane placed transversely in the trunk, and dividing the chest from the abdominal cavity. In its natural situation the diaphragm is convex on the upper side and concave on its lower, but when the lungs are filled with air it becomes almost flat. are filled with air it becomes almost flat.

It is the principal agent in respiration, only 39 per cent. from a lamp flame, 24 particularly in inspiration. A complete diaphragm is found only in Mammalia.

Diarbekir

(dē-ār-bek'r), a town of thermanous to heat from all sources. The Asiatic Turkey, capital of diathermancy of the plates in every case the pashalic of same name, on a high decreases very rapidly as their thickness bank overlooking the Tigris, and surrounded by a lofty, massive wall. It has manufactures of iron and copper ware, leather, silk, woolen and cotton goods, and a considerable trade. Pop. about 35,000.

Diatomaces (dI-a-to-mā'se-ē), a nat order of confervoid order order

an increased discharge from the alimentary canal, the evacuations being but little affected, except in their assuming a The frond secretes a very large quantity more liquid consistence. They are generally preceded or accompanied by flatulence and a gripping pain in the bowels, and frequently by sickness. Diarrhoea is The species consist of single free cells, or often produced by indigestible food, repletion of the stomach, cold applied to linear, flabelliform, circular, or geniculate the surface of the body, impressions on the nervous system. It is often also a frustules are enclosed in a transparent, symptom of some other disease. In its gelatinous sheath or frond. The ordinary simple form diarrhoea is not difficult of method of increase is by cell division.

the surface of which a flowered or fig-transforming it first into dextrine and ured pattern is produced by a peculiar then into sugar. It is obtained by di-mode of twilling.—As a term in orna-gesting in a mixture of three parts of mentation diaper is applied to a surface covered with a flowered pattern sculp-tured in low relief, or to a similar pattern germinated barley ground and dried in in painting or gilding covering a panel or flat surface.

There is making on the two, upon up at the temperature of 150° Fahr., transforming it first into dextrine and then into sugar. It is obtained by di-water and one of alcohol, at a temper-covered with a flowered pattern sculp-tured in low relief, or to a similar pattern germinated barley ground and dried in the open air, and then putting the whole under pressure and filtering it. Diastase under pressure and filtering it. Diastase is solid, white and soluble in water and diluted alcohol, but insoluble in strong alcohol.

Diathermancy (d I-a-t h er'man-si), the property that is possessed in various degrees by different rays. Thus a thin plate of glass and a thin plate of rock-salt may be nearly equally transparent, but the plate of rockequally transparent, but the plate of rock-salt has far superior power of transmit-ting rays of heat. The latter, it has been found, allows 92 per cent. of the total heat from any source to pass; glass only 39 per cent. from a lamp flame, 24 per cent. from incandescent platinum, etc.

Diatomaceæ (dI-a-to-mā'se-ē), a nat. order of confervoid Diarrhœa (di-a-rê'a), a very common Diatomaceæ order of confervoid disease, which consists in algæ, consisting of microscopic plants an increased discharge from the alimen-found in fresh, brackish and salt water,

aceæ), generally found underlying peat in various districts of Scotland. In Syke, at Loch Quire, where large supplies of diatomite have recently been discovered, it is found about 18 inches below the surface, and extends downward for about 7 feet, and in some places to a much greater depth. Diatomite is principally used for the manufacture of dynamite, its value as an absorbent being fully double that of the ordinary German kieselguhr. It is described also as extremely well adapted for the manufacture of silicate and ultramarine paints, siliceous glazings, porcelain, boiler-coatings, isolating felt,

Diatonic (dI-a-ton'ik), a term originally applied by the Greeks to one of their three genera of music. In modern music it is applied to the natural scale, and to the intervals, chords, melodies, or harmony characteristic of it. A diatonic chord is a chord having no note chromatically altered. A diatonic inter-val is an interval formed by two notes of the diatonic scale unaltered by accidentals. A diatonic melody is a melody com-posed of notes belonging to one scale

only.

Diaz (dð'az), Bartolommeo, a celebrated Portuguese navigator of the fifteenth century, named in 1486 commander of one of that long succession of exploratory expeditions which the Portuguese court had during this century become distinguished for promoting. The two vessels composing the expedition solves till they reached Cape Negro (lat. 15° 50′ s.), where Diego Cam, a previous explorer, where Diego Cam, a previous explorer, and a stopped. At 29° s. they anchored at a point to which they gave the name of Angra das Voltas (Bay of Detours). In sailing north from this point they doubled the Cape of Good Hope without knowing it, and landed at a bay on the east coast. it, and landed at a bay on the east coast. Diaz now wished to continue his voyage in order to discover the country of Prester John, but the sailors refused to accompany him. In again doubling the

Diatomaces are found fossil, forming considerable deposits of tertiary age, as May 29, 1500.

at Bilin, Bohemia; Richmond, Virginia, etc. Fossil polishing powders, as tripoli and bergmehl, are composed of them. They are abundant in guano.

Diatomite (dl-at'u-mit), a diatomaceous earth (see Diatom-aceous earth (see Diatom-aceous districts of Scotland. In Syke, at Loch Ouire, where large supplies of was made provisional president, being the supplies of was made provisional president, being the supplies of was made provisional president, being the supplies of was made provisional president. was made provisional president, being regularly elected in the following year. Under the constitution he could serve only one term, but an amendment set aside this rule, and he was again elected in 1884, being regularly reëlected until 1908. Under his rule Mexico prospered as never before, foreign capital was brought into the country, public works were built, and the resources of the state developed. But his home rule was stern and often oppressive, discontent spread widely, and in the autumn of 1910 a revolutionary movement broke out which extended throughout the country and became successful in May, 1911. The resignation of Diaz was demanded and the old ruler was forced to submit, leaving the country in voluntary exile, while the powers of government were seized by the triumphant

revolutionists. He died in 1915.

Dibdin, (dib'din), Charles, an Enguette, lish dramatic manager and poet, composer and actor, born in 1745: died in 1814. At the age of fifteen he made his approximate on the agreement. made his appearance on the stage, and was early distinguished as a composer. He invented a new kind of entertainand a number of dramas.

Dibranchiata (di-brank-i-ā'ta), the two-gilled Cephaloin order to discover the country of Prester John, but the sailors refused to accompany him. In again doubling the Cape he gave it the name of Cabo Tormentoso (Cape of Storms), which the king changed to its present designation. In 1500 Diaz had command of a vessel in the expedition of Cabral which distored Brazil. In returning home the loaded or falsified in some way so as to

curring in the Eccene formations, presenting marked affinity to the ruminants, and coming between them and the Ano-

Dichotomy (di-kot'o-mi), a cutting in two; a division by pairs. Hence, in botany, a mode of branching by constant forking, each branch dividing into two others.

Dichroic Crystals (di-krō'ik), crystals tals that have the property of exhibiting different colors when polarized light is passed through them in different directions. Thus dichroite, a mineral cheaned by Hermann changes and the second that the second colors with the second colors and the second colors are the second colors. ite, a mineral observed by Haüy, appears deep blue in the direction of the principal axis, and yellow brown in a direction at right angles to it, even when viewed with ordinary light

viewed with ordinary light.

Dichroite (di'kro-it), a mineral, a silicate of magnesium, iron and aluminium, which readily undergoes modifications and passes into other minerals. It exhibits different colors. (See preceding article.) Sometimes called lolite.

Dichroscope (di'kro-skop), an optical instrument, usually consisting of an achromatized double-image prism of Iceland spar, fixed in a brass tube, which has a small square hole at one end and a convex lens at the other, of such a power as to give a sharp image of the square hole. On looking through the instrument the square hole appears double, and if a dichroic crystal is placed in front of it the two images will appears for a series of comic pear of different colors. See Dichroic.

Dick, Thomas, a Scottish author of sketches on sporting subjects by Seypopular scientific works, born at mour, an artist who had already achieved the level and suggested as a subject the series of comic parties.

was then in the employment of the and others, were made familiar to the Navy Pay Department, but subsequently public. Under the name of the PostAu-

make the high or the low sides turn became a newspaper reporter in London. down. Dice are very ancient, being Young Dickens received a somewhat well known among the Egyptians and scanty education, was for a time a mere drudge in a blacking warehouse, and Dichlamydeous (di-klam-id'i-us), in plants that have both calyx and corolla. Shorthand, however, he became a newspaper reporter in the decreme of the direct of the dir office. Having perfected himself in shorthand, however, he became a newspaper critic and reporter, was engaged on the Mirror of Parliament and the True Sun, and in 1835 on the Morning Chronicle. For some time previously he had been contributing humorous pieces to the Monthly Magazine; but at length, in 1835, appeared in the Morning Chronicle the first of that series of Sketches by Bos which brought Dickens into fame. It was followed in quick succession by a pamphlet entitled Sunday under Three Heads, by Timothy Spark (1836); the



Charles Dickens.

Tuggs of Ramsgate (1836); The Village Coquette, a comic opera (1836); and a farce called the Strange Gentleman (1836). In the same year Chapman and Dundee, in 1774. He was for many fame, and suggested as a subject the years a teacher at Perth, but afterwards adventures of an eccentric club. Seyresided at Broughty-Ferry, where he devoted himself to astronomical science, especially in its relations to religion. Some trator, the result being the immortal years before his death a small pension Pickwick Papers. The great characterwas granted to him by the government. istics of Dickens genius were now fully Among his works are The Christian Philosopher (1823), Celestial Scenery (1838), etc. He died in 1857.

Dickens (dik'ens), Charles, one of characters, eccentric indeed, but vital the greatest English nov-representations of the humors and odd-Dickens (dik'ens), CHARLES, one of of characters, eccentric indeed, but vital the greatest English nov-representations of the humors and odd-elists, was born in 1812, at Landport, ities of life, such as Mr. Pickwick, Portsmouth. His father, John Dickens, Sam Weller and his father, Mr. Winkle,

Dickens Dickinson'

of institutions which became a distindeveloped by wealth and poverty, and guishing feature of his works. Before executive imbecility, idealized in the the completion of Oliver Twist, Nicholas Circumlocution Office. In 1859, in conon institutions which became a unitary developed by was the last works. Before executive imbecility, idealized in the the completion of Oliver Twist, Nicholas Circumiocution Office. In 1859, in considerably was begun, being issued complete in 1839. As the special object of Oliver Twist was to expose the conduct of workhouses, that of Nicholas Nickleby was bed officer Twist was to denounce the management of the open of this periodical, May 23, was was to denounce the management of begun A Tale of Two Cities. Great phrey's Clock, issued in weekly numbers, per, beginning December 1, 1880. In All contained among other matter two other the Year Round also appeared a series leading tales, The Old Curiosity Shop of disconnected sketches, called the United States, and on his return wrote American Notes for General Circulation which Dickens lived to finish. It contists a state, and on his return wrote Stone, was the last great serial work American Notes for General Circulation which Dickens lived to finish. It contists the continuous of the property of their satirical criticism. Marking the North Starte, and is distinguished among his indignation in the United States by the works by its elaborate plot. The first severity of their satirical criticism. Marking the North Dickens lived to finish. It contists the property of the series of Christmas Tales denly, at his residence, Gad's Hill Place, followed, in which a new element of his near Rochester, on June 9th. He had genius, the power of handling the weird considerably overtaxed his strength duranthem of the same part of the series of Christmas Tales denly, at his residence, Gad's Hill Place, followed, in which a new element of his near Rochester, on June 9th. He had genius, the power of handling the weird considerably overtaxed his strength duranthem of the sense of the Hearth work as a novellist is firmly based upon 11843). The Cricket on the Hearth work as a novellist is firmly based upon 11845. The Battle of Life (1846), The a wide and public readings new sensation o

mous Papers of the Pickwick Club this House came out. A Child's History work was published in two vols. 8vo. in of England, commenced in Household 1837. In the same year Dickens was Words, was published in 1852-54. Herd engaged as editor of Bentley's Magazine, Times appeared in Household Words, to which he contributed Oliver Twist, a and was published in 1854. Little Dorrit, work which opened up that vein of phil- commenced in 1856, dealt with imprisonanthropic pathos and indignant satire ment for debt, the contrasts of character Nickleby was begun, being issued com- sequence of a disagreement with his pub-

senior counsel for the United States in ment, such as dictionaries of biography,

acterized by the embryo containing a tionary. This monumental work is pair of cotyledons or seed-leaves, which being edited mainly by Dr. James A. H. are always opposite to each other. Dicot-Murray of Oxford, England. The first yledons are further characterized by their section was published in 1884. A rival yledons are further characterized by their section was published in 1884. A rival netted-veined leaves and the exogenous of Webster's work appeared in Worstructure of their stems. The class is cester's in 1859; and many smaller dictionare, Calyciflors, Corolliflors and Monschlamydes (which see, respectively). The Century Dictionary, the first edition of class receives also the name of exogens. which appeared in 1889-91, is the best Dictator (diktā'tur), an extraordi-American dictionary on a large scale. Roman republic, first instituted B.C. 501. English language, is that of Professor The power of naming a dictator when an Skeat. The greatest French dictionary emergency arose requiring a concentral is that of Littré; the greatest German, tion of the powers of the state in a single superior officer was vested by a resolution of the bentler in one of the consuls. Now being prepared.

The dictatorship was limited to six Dictorrah (dik'tō-graf), or Dictation of the senate in one of the consuls.

The dictatorship was limited to six months, and the person who held it could not go out of Italy. This rule was laid aside during the first Punic war. The dictator was also forbidden to appear in Rome on horseback without the permission of the people, and he had no control over the public funds without the per-mission of the senate. He had the power of life and death, and could punish with-out appeal to the senate or people. All the other magistrates were under his

Dictionary (dik'shun-ar-i; from the Latin dictio, a saying, expression, word), a book containing the words, or subjects, which it treats, arranged in alphabetical order. It may be either a vocabulary, or collection of the words in a language, with their definitions; or a special work on one or more branches of science or art prepared process might be called didactic, since they

National Campaign Committee in 1892, on the principle of alphabetical arrangesenior counsel for the United States in ment, such as dictionaries of biography, the Fur Seal Arbitration of 1896-97, and member of the Court of Arbitration in the controversy between the United States and Salvador in 1902.

Dickinson College, a collegiate carliele, Pennsylvania, the oldest in the State except the University of Pennsylvania, it being founded in 1783. It was named after Hon. John Dickinson, who gave it valuable gifts. It was a Presbyterian institution until 1883, when it passed under the control of the Methodists. It has endowed funds of about \$360,000.

Dickson City (dik'sun), a borough in Lackawanna Co., Pennsylvania, 5 miles N. of Scranton. It has foundries, machine shops, silk-mills, etc., and coal is mined in its vicinity.

The All Lack (Ukkotils'don) a plant in the state of biography, law, music, medicionaries of the English language, the technicionary beach chase dealest scent to have been those of Barett, 1573, and of Bullokar, 1616.

That of Dr. Johnson, published in 1755, made an epoch in this department of biography, law, music, medicionary to abloate the salies scent to have been those of the Methodisches of the Lagland, have been those of baretines of the Lagland, have been those of the Lagland in 1755, made an epoch in the salies scent etc., and coal is mined in its vicinity. tion and syllading ation. It was the mist dictionary to embody the historical principles of treatment which find their culmination in the New English Dicacterized by the embryo containing a tionary. This monumental work is acterized by the embryo containing a tionary. This monumental work is contained as a seed-leaves, which being edited mainly by Dr. James A. H.

Dictograph (dik'tō-graf), or Dicta-GRAPH, an instrument magnifying sound, invented by K. M. Turner, of New York, in 1907. It consists of a small supersensitive transmitter. a receiver or ear piece, connecting wires, and a small battery. The transmitter can be easily concealed and a voice within fifteen feet is carried over wires to any required distance. This instrument has been found valuable in detective work.

Dictyogen (dik-ti'ō-jen), the name given to a group of plants, with net-veined leaves, intermediate between the monocotyledons and dicotyledons, as the yam, sarsaparilla, etc. Didelphia Didunculus

contain a didactic element in the shape dien, suggestive essays on the principles of history or moral teaching. Dante's of painting and acting; two lively Divina Commedia, Milton's Paradise tales, La Religiouse and Jacques le Lost, or Goethe's Faust, for example. The Fataliste.

Diderot (ded-ro), DENIS, a French

Didelphys (di-del'fis). See Opossum.

writer and philosopher, was born in 1713, at Langres, in Champagne, and educated in the school of the Jesuits, and afterwards at Paris, at the College of Harcourt. His first works were the Essai sur le Mérite et la Vertu (1745); and the Pensées Philosophiques (1746), a pamphlet against the Christian religion. His Lettre sur les Aveugles à l'Usage de Ceux qui Voyent, is in the same strain. These heterodox publications cost him an

Lost, or Goethe's Faust, for example. The difference may be said to be this, that in the one case the materials are limited and controlled by nothing but the creative are much more determined by the actual nature of the subject treated of.

Didelphia (di-del'fia), one of the mammalia (the others being Monodelphia and Ornithodelphia), comprising the over sea, and landing on the coast of order otherwise known as Marsupials, which form the only order in the subclass.

Pidelphia (di-del'fia), one of the but Dido, accompanied by many Tyrians of her party, fied with all the treasure over sea, and landing on the coast of order otherwise known as Marsupials, Africa, founded Carthage about 860 gc. The story is told by Virgil with many inventions of his own in the Enoid (books i and ii). (books i and ii).

Didot (de do), a famous house of printers, booksellers and typewriter and philosopher, was founders at Paris. The founder was François Didor, born in 1689; died in 1757. Of his sons François Ameroise (born in 1720; died in 1804) and Pierre PRANÇOIS (born in 1732; died in 1795), the first distinguished himself in the typefounding art as an inventor of new processes and machines, the second was equally eminent by his bibliographical equally eminent by his bibliographical knowledge, and contributed much also These heterodox publications cost him an improvement for some time at Vinterial transfer of printing. Press imprisonment for some time at Vinterial transfer of printing. Press imprisonment for some time at Vinterial transfer of printing. Press imprisonment for some time at Vinterial transfer of printing business. Diderot now tried writing for the stage, but his pieces were failures. In 1749 he had begun along with D'Alembert and some others the Encyclopædia. At first it was intended to be mainly a (1798) and his Racine (1801) may be translation of one already published in particularly mentioned. He did much English by Chambers. Diderot and D'Alembert, however, enlarged upon this project, and made the new Encyclopædia at Samuel and the thought and science of the time. Diderot, besides revising the sort of script, and an improver of the whole, undertook at first the mechanical arts, and subsequently made contributions in history, philosophy and art criticism. But the profits of all his labor were small, and it was only the liberality among the publishers of Paris. The of the Empress Catharine, who purchased his library for 50,000 livres and made him a yearly allowance of 1000 papermaking, bookbinding, etc.

Didunculus (di-dung kū-lus), a genus piecons, and comprising only the one received with great honor. On his return to France he lived in retirement, and died in 1784. Besides his articles as being the nearest living ally of the in the Encyclopædia, he wrote numerous works, some of which were published 14 inches, with a glossy plumage verging the publishers of paris. The bird is of special interest and died in 1784. Besides his articles as being the nearest living ally of the in the Encyclopædia, he wrote numerous extinct dodo. It has a length of about works, some of which were published 14 inches, with a glossy plumage verging the nearest living ally of the contract of the profits of the stransfer of the sum of the profits of a bout works, some of which were published 14 inches, with a glossy plumage vergint o to the advancement of printing. Preser

and died in 1784. Besides his articles as being the hearest living ally of the in the Encyclopædia, he wrote numerous extinct dodo. It has a length of about works, some of which were published 14 inches, with a glossy plumage vergafter his death. Among the best known ing from velvety black on the back to a are Le Neveu de Rameau, a kind of philosophical dialogue which Goethe thought abdomen. The large beak, which is worthy of translation; Essai sur la nearly as long as the head, is greatly Peinture, and Paradoxe sur le Comé-arched on the upper half, while the lower

is furnished with two or three tooth- Diedenhofen (dé'den-hō-vn).



næan system of plants, the members of

which have four stamens, of which two are longer than the other two.

Die (di), a metallic stamp for impressing a design or figure upon coins or other metallic objects. See Die-sinking.

Die (dē), an ancient town of France, dep. Drome, 26 miles southeast of Valence; with a former cathedral and Roman remains. Pop. (1908) 3090.

Dié (dē-ā), ST., a town of France, dep. of Vosges, on the Meurthe, 25 miles E. N. E. of Epinal. Both iron and copper are worked; there are marble quarries: and a variety of manufactures. quarries; and a variety of manufactures are carried on. Pop. 16,289.

Diebitsch-Sabalkanski, KARL, a Russian general, born at Grossleippe to the Dutch commerce in India. Abel Tasin Silesia in 1785, was educated at the man, whom he sent with a vessel to the military school of Berlin, but in 1801 South Seas in 1642, gave the name of quitted the Prussian service for that of Van Diemen's Land, to the island now Russia. He was present at the battles called Tasmania. Van Diemen died in of Austerlitz and Friedland, served with distinction in the campaign of 1812, to the island now took part in the battles of Dresden and Leipsig, and was made lieutenant-general at the age of twenty-eight. He had the embouchure of the Arqu.s, 93 miles the chief command in the Turkish war N. N. W. Paris. Almost the only public of 1828-29, stormed Varna, and made edifices worth special notice are the two the famous passage of the Balkans, for which the surname of Sabalkanski was the thirteenth century, and St. Rémi, conferred on him. In 1890 he com-

Se e

Dieffenbach (defenbach), Johann Friedrich, a German surgeon, born at Königsberg in 1792. After having studied at Bonn and Paris he settled in Berlin, where his talent as an operator soon attracted notice. Surgery is particularly indebted to him for new methods of forming artificial noses,

Didunculus strigirostris.

Didymium (di-dim'i-um), a rare metallic element, occurring along with lanthanium in the mineral cerite as discovered by Mosander in 1843. Recently it is said to have been resolved into two new elements: Praseodymium and Neodymium.

Didynamia (di-din'am'i-a), the fourneean system of plants, the members of which have four stamens of makes in the Linnean system of plants, the members of which have four stamens of makes in the Linnean system of plants, the members of which have four stamens of makes in the Linnean system of plants, the members of which have four stamens of makes in the Linnean system of plants, the members of which have four stamens of makes in the Linnean system of plants, the members of makes in the Linnean system of plants, the members of makes in the Linnean system of plants, the members of makes in the Linnean system of plants, the members of makes in the Linnean system of plants, the members of makes in the Linnean system of plants, the members of makes in the Linnean system of plants, the members of makes in the Linnean system of plants, the members of makes in the Linnean system of plants belong in g to the members of makes in the Linnean system of plants belong in g to the members of makes in the Linnean system of plants belong in g to the members of makes in the Linnean system of plants belong in g to the members of makes in the Linnean system of plants belong in g to the members of makes in the Linnean system of plants belong in g to the members of makes in the Linnean system of plants belong in g to the members of makes in the Linnean system of plants belong in g to the members of makes in the Linnean system of plants belong in g to the members of makes in the Linnean system of plants belong in g to the members of makes in the Linnean system of plants belong in g to the members of makes in the Linnean system of plants belong in g to the members of makes in the Linnean system of plants in the members of the members of the members of the members of the members o

The best known is D. spectabilis, a native of Northern China and Siberia, now tive of Northern China and Siberia, now common in European and other gardens. It blossoms in April and May, and its long drooping racemes of purplish-red blossoms present a very graceful appearance. It grows freely in the open air. It is sometimes called pendent heart or virgin's heart from the shape of the blossoms.

Diemen (de'men), ANTON VAN, a Dutch administrator, was born in 1593. Having gone to India, he speedily rose to the highest dignitles, and was at length, in 1636, made governor-general. He administered the government with much ability, and constituted with the the articlishment. ernment with much ability, and con-tributed much to the establishment of the Dutch commerce in India. Abel Tas-

the chief command in the Turkish war N. N. W. Paris. Almost the only public of 1828-29, stormed Varna, and made edifices worth special notice are the two the famous passage of the Balkans, for Gothic churches (St. Jacques, begun in which the surname of Sabalkanski was the thirteenth century, and St. Rémi, conferred on him. In 1830 he comfounded in 1522), and the old castle manded the army sent against the revolted Poles, but did not distinguish himself in this service. He died in 1831.

La Pollet, which is inhabited chiefly by sailors and fishermen. Dieppe is one of the chief watering places of France, and is much frequented by visitors. The manufactures include works in ivory, work in horn and bone, lacemaking, sugarrefining, shipbuilding, etc. In early times. Dieppe was the chief port of France, but its prosperity diminished after the revocation of the Edict of Nantes (1865).

Piop. 22,120.

Diesel Engine, an oil engine interest (1893). The engine operates at compression pressures very much higher than those used in any other internal combustion engines, and it dispenses with the usual igniting devices by rendering the air charge incandescent by compression. The efficiency of the Diesel engine is high, and it can use low grades of the chief products of the German Empire, Austria, etc.

Output day of wrath') denotes, the final judgment of the world, and seems to have been written by Thomas to have been written by Thomas da Celano, a Franciscan friar of the third tenth century. There are many translations, but hardly any which convey the solemn force of the original.

Diest (diest), a town of Belgium, province Brabant, 32 miles.

E. Brussels. It has some manufactures, but the chief products of the place are beer and gin, the former being largely exported. Pop. (1904) 8383.

Diet (di'et), a meeting of some body of men held for deliberation or other purposes; a term especially applied to the legislative or administrative assemblies of the German Empire, Austria, etc.

The discovery that the disadvantage of the chief products of the place are beer and gin, the former being largely exported. Pop. (1904) 8383.

is high, and it can use low grades of tria, etc. fuel, but it has the disadvantage of greater weight per horse-power than other engines. It has found increasing favor the regulation of diet. The ideal diet for use in marine propulsion, and in 1913 was adapted to high-speed railway serv-the viscera uselessly, furnishes all necestary that which with the resultance of the regulation of diet. ice, and put into use in Germany.

Dies Fasti et Nefasti (d i'ē s), a Roman division of days, with reference to judicial nefastus, a legal holiday.

Die-sinking, is the art of preparing dies for stamping coins. ontains the elements needed to replace buttons, medallions, jewelry, fittings, etc. this waste in their requisite proportions. The steel for the manufacture of dies and a mixed diet is therefore necessary. is carefully selected, forged at a high For instance, to secure the required heat into the rough die, softened by careful annealing, and then handed over to eat about 4 lbs. of lean beef, while 1 lb. the engraver. After the engraver has would yield all the nitrogen required; worked out the design in intaglio the thus, apart from the labor of digesting 4 lbs. of beef the body would be compelled. die is put through the operation of hard-ening, after which, being cleaned and to get rid of the excess of nitrogen polished, it is called a matrix. This is Bread, on the other hand, has carbon in polished, it is called a matrix. This is Bread, on the other hand, has carbon in not, however, generally employed in abundance, but is deficient in nitrogen; multiplying impressions, but is used for so that by uniting 2 lbs. of bread with making a punch or steel impression for % lb. of lean meat, the due proportion of relief. For this purpose another block carbon and nitrogen is satisfactorily supof steel of the same quality is selected, plied. Milk and oatmeal taken together and, being carefully annealed or softened. also contain nitrogenous and non-nitrog-

sary nutritive elements, with due consideration for special physiological condia tions in any given case. Under the head of Aliment the physiological properties al of various foods have already been conbusiness, into working days and holidays. sidered theoretically in respect of their A dies fastus was a working day; a dies capacity to supply physical waste in nitrogenous and non-nitrogenous matter. (See Aliment.) No single substance contains the elements needed to replace and, being carefully annealed or softened. also contain nitrogenous and non-nitrogis compressed by proper machinery upon the matrix until it receives the impression. A certain proportion of sion. When this process is complete saline matter is also necessary. The nather impression is retouched by the entry of the food most suitable for a graver, and hardened and collared like healthy man is dependent in part upon the matrix. Any number of dies may general conditions such as climate and now be made from this punch by impressing upon it plugs of soft steel.

Dies Iræ (di'ēs i'rē), one of the great itants of the Arctic regions need large quantities of oleaginous food: those of val church, generally used as part of the tropics live chiefly on starchy produced. It describes, as its name ('the ertion, as in training, an increase in the

nitrogenous foods becomes necessary. In Raphael and Mieris, Correggio and Osastate of health we need not draw hair-tade. He died in 1774. nitrogenous foods becomes necessary. In a state of health we need not draw hair breadth distinctions as to the superior salubrity of the several sorts of diet, the quantity rather than the quality of food being the main consideration. Those persons who have been most remarkable for health and life have generally been contented with two moderate meals a day, which are certainly quite sufficient during a state of health. In various to tountries the breakfast generally consists on the east has a tolerable harbor defended by batteries. The chief industry proportion of bread and butter; persons with delicate digestive powers, or who or comfort eat animal food constantly at breakfast. At dinner all made dishes highly spiced, such as curries, turtles on the seakfast. At dinner all made dishes highly spiced, such as curries, turtles on the seakfast. At dinner all made dishes highly spiced, such as curries, turtles on the commended. Stewed and during the reigns of Elizabeth and Anne, boiled meats are more difficult to digest than meat cooked by fire alone. The difficult of digestion than that of wild and the flesh of tame than that of wild Diez (dets), Friedrich of Serny, the notto of England.

Raphael and Mieris, Correggio and Ostade. He died in 1774.

Better died of Bern, the name under tade. He died in 1774.

Dietrich of Bern, the name under the Great, king of the Ostrogoths, appears in the old German legends. Bern provents appears in the old German legends. Bern or D'YEU (dyeu; ancient Insula to Diet, and state of the west of the West; on the Great All of the west of the Great All of the Newstands for Verona, his capital.

Dietrich of Bern, the name under the Great, king of the Ostrogoths, appears in the old German legends. Bern or D'YEU (dyeu; ancient Insula to D'YEU (dyeu; ancient Insula to Dietrich of Bern, which Theodoric the Great in the name under the Great king of the Ostrogoths. Bern or D'YEU (dyeu; ancient Insula to Dietrich of Bern, which Theodoric the Great king of the Ostrogoths. Bern or D'YEU (dyeu; anc difficult of digestion than that of old; and the flesh of tame than that of wild animals. All sorts of fat meat must be taken in smaller quantities. Hence, also, ham, bacon and salted meats cannot be nam, pacon and saited meats cannot be eaten in such quantities as the tender flesh of poultry. Fish has the advantage of being easily soluble. All boiled vegetables are in general easy of digestion; raw vegetables and salads are rather more difficult. Fruit should be taken in the forenoon rather than after

taken in the forenoon rather than after a hearty meal.

In all diseases attended with much fever or quickness of pulse the stomach loathes animal food, and there is generally a great increase of thirst, to quench which water, either quite cold, or iced, or tepid, or rendered acid, may be freely indulged. Infusions, too, of barley, sage, balm, etc., may be taken. In chronic diseases attended with hectic fever, milk is the most proper diet. The best food for infants is, of course, their mothers' milk; but whenever they begin to cut for infants is, of course, their mothers' Leslie's differential thermometer consists milk; but whenever they begin to cut of two glass bulbs containing air conteeth a little animal food, such as soft-boiled eggs, beef broth and even chicken sulphuric acid, the movement of which minced very fine, may be given. Many (as the air expands and contracts) serves infants suffer from having too much to indicate any slight difference of temsugar given them in their food.

District the description of the contract of

Diez (dets), FRIEDRICH CHRISTIAN, a German philologist of the Romance languages, born in 1794. Having qualified himself as a lecturer at Bonn, he was appointed professor of the Romance languages in 1830. His work stands in much the same relation work stands in much the same relation to the Romance dialects which the re-searches of Grimm occupy with respect to German dialects. In addition to various works on the poetry of the Trouba-dours, he published a very valuable Grammatik der Romanischen Sprachen in 1836-42, and an Etymologisches Wörterbuch der Romanischen Sprachen in 1853. He died in 1876.

Differential Calculus. See Cal-Differential Thermometer (diferential Thermometer) shal), an instrument for determining very minute differences of temperature. Leslie's differential thermometer consists

Dietrich (de'trih), Cherstian Wildert and engraver, called by Winckelmann 'the Raphael of Landscape,' born in 1712. He studied under his father, and afterwards under Alexander Thiele at Dresden, where he became court painter, professor in the academy, etc. He marrow slit, and falls upon a screen adopted several different manners or atyles of painting, successfully imitating of white light bordered by colored fringes;

Diffusion Digestion

these fringes are produced by diffraction. See Interference.

Diffusion (di-fu'shun), the gradual dispersion of particles of one liquid or gas among those of another. Thus, in the case of gases, when a jar of oxygen and a jar of hydrogen are connected together by a tube or opening of any kind, they rapidly become mixed; and their mixture does not depend on gravity, but takes place in opposition to that force, as may be shown by placing the jar of hydrogen gas above the other. Oxygen is sixteen times heavier than hydrogen, bulk for bulk, but the heavier gas moves upwards and the process of intermixture, he became a Roman Catholic family in 1581. He enjoyed some consideration at the court of Elizabeth and James I, by whom he was allowed to retire to light of Elizabeth and James I, by whom he was allowed to retire to or diffusion, goes on until the two gases are apparently equally distributed throughout the whole space. After that they have no tendency whatever to separate. Similarly, if two vessels, one containing oxygen and the other hydrogen, be connected by a tube which is stuffed with a plug of porous material, such as plaster of Paris, the gases gradually diffuse one into the other through the porous plug. The two gases, however, do not pass through the porous separator at equal rates, but in inverse proportion to the square roots of the densities of the gases. Thus in the cases of two vessels, gases. Thus in the cases of two vessels, one containing hydrogen and the other under proper titles by order of the emoxygen, which is sixteen times as heavy peror Justinian. Hence applied to any as hydrogen, the hydrogen will pass towards the oxygen jar four times as quickly as the oxygen will pass towards the hydrogen jar. Kindred phenomena occur when two liquids that are capable safety-valve, the object being to prefer in contact, the two gradually diffusing one into the other in spite of the which temperature its solvent power is action of gravity. In some cases, however, so greatly increased that bones are conas where ether and water are employed, verted into a jelly. as where ether and water are employed, the diffusion is only partial, extending a comparatively small distance on either side of the original line of separation. by which the aliments are so acted upon When solutions of various solid bodies that the nutritive parts are prepared to are placed in contact, interdiffusion also enter the circulation, and separated from takes place. On the results of his exthose which cannot afford nourishment amination of the phenomena of diffusion to the body. The organs effecting this of liquids and salts across porous memprocess are called the digestive organs, because or easts. Craham founded a and consist of the stomach the great and branes or septa, Graham founded a and consist of the stomach, the great and method of separating colloid from crys-small intestines, etc. (see Intestine, talloid bodies, which he called dialysis Stomach), the liver and pancreas.

these fringes are produced by diffraction. Roman Catholic family in 1581. He en-

imprisoned as a Royalist from 1638 to 1643, when he was allowed to retire to the continent. At the restoration he returned to England, became a member of the Royal Society, and was much visited by men of science. He died in 1665. He wrote numerous works; a Treatise on the Nature of Bodies, a Treatise on the Nature and Operation of the Soul Of the Cure of Would by the the Soul, Of the Cure of Wounds by the Power of Sympathy, etc. Evelyn calls him 'an arrant mountebank.'

Digest (di'jest), a name originally given to a collection or body of Roman laws, digested or arranged

verted into a jelly.

Digestion (di-jest'yun), is that process in the animal body talloid bodies, which he called dialysis Stomach), the liver and pancras. (which see).

Digamma (dI-gam'a), a letter which once belonged to the Greek alphabet, and which remained are intimately united with a liquid sublongest in use among the Æolians. It stance called the gastric juice, by the resembled our letter F, and hence was motion of the stomach. By this motion called digamma, that is, double F. It the aliments are mechanically separated appears to have had the force of f or v. into their smallest parts, penetrated by Digby (dig'bi), SIR EVEBAED, an the gastric juice, and transformed into English gentleman, born of a uniform pulpy or fluid mass. The gas-

of the food, converting them into pepplayers for practice, to give strength and tones, which can pass through organic flexibility to the fingers.

membranes and thus enter the blood.

Digne (děn'y'), a town of France capital of the department of Inis action is alord by the warmth of the stomach. The pulpy mass, called *ohyme*, proceeds from the stomach through the pylorus, into that part of the intestinal canal called the small intestine, where it is mixed with the pancreatic juice, bile and intestinal juice. The pancreatic juice converts starch into sugar, albuming into pentones and amulgion.

said to be eclipsed.

Digitalin (dij-i-tal'in), a vegetable glucoside, the active principle of the Digitalis purpuréa or foxglove. It is white, difficult to crystallize, inodorous, has a bitter taste, and is a strong poison.

Digitalis (dij-i-tal'is), a genus of genus Gardonia, a solution of which is plants, nat. order Scrophulariacese, containing about twenty species of tall herbs, natives of Europe and Western Asia. The purple foxglove to represent a ditch or trench, and also (D. purpuréa) is a common wild flower an embankment, rampart, or wall. It in Britain, and several species are grown in American gardens. Digitalin, also preparations of digitalis leaves, are used as cardiac stimulants and diuretics.

preparations of digitalis leaves, are used as cardiac stimulants and diuretics.

Digitate (dij'i - tât), in botany, branched out into divisions resembling fingers, said of leaves or roots.

Digitigrada (dij-it-i-grâ'da), a section of the Carnivora, so called from their walking on the ends of their toes; as distinguished from the Plantigrada, which, like the bear, place the whole foot upon the ground. This tribe includes the weasel, dog, cat, etc.

Digitorium (dij-i-tō'ri-um), a small portable dumb instrugated in the stratified portable dumb instrugated with five surface like walls.

tric juice acts upon the albuminous parts keys like those of a piano, used by piano-

Digne (děn'y'), a town of France capital of the department of Basses-Alpes, picturesquely situated on a mountain slope, 60 miles northeast of Marseilles. Pop. 4628.

Dihong (dě-hong'). See Brakmaputra.

Dijon (dezhon), a town in Eastern France, capital of the department Cote-d'Or, in a fertile plain, at the ereatic juice converts starch into sugar, albumins into peptones, and emulsionment Côted'Or, in a fertile plain, at the izes fats, so that all these kinds of food are rendered capable of absorption. The percess is aided by the intestinal juice. The bile also acts upon fats, and thus the foot of a range of vine-clad slopes, formed into the chyle, which is forts. Some of the buildings belong to absorbed into the system by the capillary vessels called lacteals (see Chyle, dukedom of Burgundy, the chief being Chyme), while the non-nutritious matters pass down the intestinal canal and are carried off.

Thigh (diffit: Lat digitus a finger) the cathedral, a building of vast extent with a lofty wooden spire above 300 feet high; the churches of Notre Dame and St. Michael; the ancient palace of the dukes of Burgundy, now used as the hotel de ville and museum; and the palais de justice, formerly the parliament house of Burgundy. It has important educational institutions and a valuable library. Industries: woolens, hosiery, chemicals. ni arithmetic, any one of the dukes of Burgundy, now used as the ten numerals, 1, 2, 3, 4, 5, 6, 7, 8, 9, 0. hotel de ville and museum; and the Digit is also a measure of a finger's palais de justice, formerly the parliament breadth, equal to % inch.—Digit, in astronomy, is the measure by which we educational institutions and a valuable estimate the quantity of an eclipse. The library. Industries: woolens, hosiery, diameter of the sun or moon's disk is candles, mustard, vinegar, chemicals, parts, called digits; and according to machine factories, cotton and oil mills. the number of those parts or digits machine factories, cotton and oil mills the number of those parts or digits in the wines of Burgundy. Pop. (1911) 76,847.

Thioritalin (dij-ital'in), a vegetable Thiorical, a vegetable fat ob-

Dilapidation (di-lap-i-dā'shun), in pungent, and aromatic, and are em-English law, is where ployed medicinally as a carminative. an incumbent of a church living suffers In appearance it resembles the fennel, the parsonage house or outhouses to fall dill-water and an down, or be in decay for want of neces-sary repairs; or it is the pulling down or destroying any of the houses or build-ings belonging to a spiritual living or Dill-water and gripes of children. the parsonage house or outhouses to fall down, or be in decay for want of necessary repairs; or it is the pulling down or destroying any of the houses or buildings belonging to a spiritual living, or destroying of the woods, trees, etc., appertaining to the same. An outgoing incumbent (or his heirs) is liable for dilapidation to his successor.

Dillamma (di-lem'a; from Gr. dis, prothess)

Dilemma (di-lem'a; from Gr. dis, twice, and lémma, an assumption), in logic, an argument in which the same conclusion may be drawn from two contrary propositions. We ap-pend one of the most famous of the pend one of the most ramous of the classical dilemmas. A young rhetorician said to an old Sophist: 'Instruct me in pleading and I shall pay you when I gain a cause.' The master sued for the reward, and the scholar eluded the claim by a dilemma. 'If I gain my cause I hall not now you heave the award of by a dilemma. 'If I gain my cause I shall not pay you, because the award of the judge will be against you. If I lose it I may withhold it, as I shall not have gained a cause.' The master replied: 'If you gain you must pay me, because you promised to pay me when you gained a cause; if you lose you must pay me, because the judge will award it.' The two results which are found equally objectionable are called the 'horns' of the dilemma

amusement and gratification, being thus nearly equivalent to amateur. In 1734 a number of gentlemen founded in London the Dilettanti Society which published a splendid work on Ionian Antiquities, 1769-1840; Specimens of Ancient

English official and author, born at Chelsea in 1843. He entered Parliament as a radical in 1868 and in 1882 became president of the local government board, with a seat in the cabinet. Freent deposits, which seem to have been the wrote Problems of Greater Britain, the result of a rush of water or deluge. Army Reform, The British Empire, and other works. His wife, Emily F. Dilke, is an able art critic and author of the Renaissance of Art in France, Art in the Modern State, etc.

Thill (dil), an umbelliferous plant.

24 miles northwest of Augsburg. It was long the seat of a Jesuit university, and the castle was formerly the ordinary residence of the Bishop of Augsburg. Pop. (1905) 6078.

Dillon (dil'un), John, politician, was born of Irish parentage in New York in 1851, educated at the Catholic University of Dublin, and early identified himself with the Parnellite movement for reform in Irish affairs. He was elected reform in Irish affairs. He was elected to Parliament for County Tipperary in 1880 and soon became prominent there for the violence of his language. In Ireland his speeches were so ultra-radical that they led to his imprisonment three times between 1881 and 1888. He became one of the most prominent promoters of the 'Plan of Campaign' in Irish agitation, and in 1896 succeeded Justin McCarthy as chairman of the main spectron of the Irish Nationalist party. dilemma.

Dilettante (di-let-tan'ta), an Italian expression, signifying a lover of the arts and sciences, who devotes his leisure to them as a means of at 15,000.

votes his leisure to them as a means of at 15,000.

amusement and gratification, being thus nearly equivalent to amateur. In 1734
a number of gentlemen founded in London the Dilettanti Society which published a splendid work on Ionian Antiquities, 1769-1840; Specimens of Ancient Sculpture, Egyptian, Etruscan, Greek and Roman, 1809, 1835; the Temples of Egina and Bassar, 1860, etc.

Dilke (dilk), Sir Charles W., an English official and author, born at Chelsea in 1843. He entered Parlia.

Dilke (dil'ū-ents), in medicine, are taken to increase the proportion of fluid watery liquors.

Dill (dil), an umbelliferous plant, Anëthum graveolens, a native of the southern countries of Europe, the southern countries of Europe, the special affix which conveys the idea of fruits, commonly but erroneously called littleness, and all other ideas connected seeds, of which are moderately warning, with this, as tenderness, affection, con-

tempt, etc. The opposite of diminutive The environs are studded with handsome is augmentative. In Latin, diminutives bungalows. Pop. with cantonment, 33,700. almost always ended in lus, la, or lum; Dinar (denar'; L. denarius), formerly as Tullia, my dear or little heart; Persian coin; at present the chief Servian homunculus, a manikin. The Italian is coin; also a formunculus, a manikin. The Italian is coin; also 1 franc. as Tulliola, meum corculum, little
Tullia, my dear or little heart;
Persian coin; at present the chief Servian
homunculus, a manikin. The Italian is coin, value 1 franc.
particularly rich in diminutives and
sugmentatives, such compound diminutives as fratellinuccietinetto (a diminutive of frate, brother) being sometimes height. Pop. (1905) 25,182.
employed. Among English diminutive
affixes are kin, as in manikin, a little
gosling, a little goose; darling, that is, Leipzig, and died in 1883. His chief pubdearling or little dear; and et. as in lications were editions of the Greek dearling, or little dear; and et, as in lications were editions of the Greek pocket, from poke, a bag or pouch; dramatists and works elucidative of them tablet, a little table. Diminutives are and other Greek writers. also formed, in colloquial and familiar language, by adding y or ie to the names,

figures. It is usually employed white, as for bed and bedroom furniture.

Dimorphism (di-morf'izm), in crystallization of a body in forms belonging to two different systems, or incompatible forms of the same system, a peculiarity

exhibited by sulphur, carbon etc.

Dimorphism, in botany, the condition when analogous

mon primrose occurs in two forms, one the elephant and of equal size, but withhaving long stamens and a short pistil, the other a long pistil and short stamens.

Dinajpur (de'näj-pör), a town of Bengal, Hindustan, capital of a district of the same name, 205 miles north of Calcutta; pop. 13,430. The district covers an area of about 4118 square miles; pop. 1,567,080.

Dinan (de-nän), a town of France Open and the square miles; pop. 1,567,080.

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of St. Malo. It stands on a steep hill nearly 200 feet above the river, is surrounded by high old walls pierced with

rounded by high old walls pierced with four gates, and is a picturesque and interesting old place. Pop. (1911) 11,410.

Dinant (de-nan), a town of Belgium, in the province and 14 miles of large wing-less birds—classed among the Struthion-situated on the Meuse, a place of idee or ostrich antique appearance. The town-house was tribe—the antique appearance. The town-house was tribe - the

antique appearance. The town-house was once the palace of the Princes of Liège. Species of Pop. (1904) 7674.

Dinapur (de'n a-p-l-r), a town of the smallest Dinornis (pelvic and leg bones and outline of body).

Hindustan, on the right bank of the Ganges, about 12 miles y w. of Patna. It is must have stood at least 14 feet in height, a cantonment and military headquarters of the district with extensive barracks. The

Dingo (ding'go), the native wild dog of Australia (Canis Dingo), of a wolf-like appearance and extremely language, by adding y or se to the names, as Charley, mousie, etc.

Dimity (dim'i-ti), a stout cotton facre. The ears are short and erect, the loom either by raised stripes or fancy figures. It is usually employed white, as for bed and bedroom furniture.

Dimorphism (di-morf'izm), in crystal-tallography, the crystal-tallography, the crystal-tallography, the crystal-tallography, the crystal-tallography its indigenous character doubtful. renders its indigenous character doubtful. Dinitronaphthol (d i-n i-t r ō-n ap'-thol). See

Dimorphism, in botany, the condi-organs of the same species appear under fossil mammal found in the Eocene strata two very dissimilar forms. Thus the com-mon primrose occurs in two factors. Naphthyl. two very dissimilar forms. Thus the com- of N. America, in some respects akin to mon primrose occurs in two forms, one the elephant and of equal size, but with-

terrible. ornis. bird), an

eighteenth century, and are spoken of as moas by the natives, who buried the eggs with their dead as provision for their journey to the other world.

Dinotherium (di-no-the'ri-um; Gr. deinos, terrible; the-rion, beast), a genus of extinct gigantic



the latter part of his reign he was indeed to sanction a persecution of the Christians.

Diodati

The largest interpretation of the Christians.

Diodati

Te mains of which occur in Tertiary formations in Tertiary formations in the latter part of his reign he was indeed to sanction a persecution of the Christians.

Diodati

Tallian Protestant divine, born at Lucca, about 1576, of a noble of the Christians.

The largest can be not christians.

Diodati

Tallian Protestant divine, born at Lucca, about 1576, of a noble of the control carbon time in Tertiary formations in the closer, and in 1619 represented the Genevan clergy at the Belgic confession of faith. He is most celebrated for a translation of the denotherium is tast of a proboscide and curved downwards somewhat after the manner of those in the upper jaw of the walrus. The zoological position of the walrus. The zoological position of the walrus. The zoological position of the dinotherium is that of a proboscidean allied to the elephant. The skull, molar teeth and scapular bune are the only options yet discovered. Kaup regards it as intermediate between the mastodons and tapirs and terrestrial; while Blainville and Pictet regard it as allied to the sea-cows, and inhabiting the embouchure of great rivers.

Diocese (dio-ses; Greek, dioikėsis, administration), the circuit or extent of a bishop's jurisdiction. Each English diocese is divided into factore and the composition of the dionotherium is that of a proboscidean nurve of present probability of the circuit or extent of a bishop's jurisdiction. Each English diocese is divided into factore and probability of the circuit or extent of a bishop's jurisdiction. Each English diocese is divided into factore and the composition of the divided into factore and the composition of the composition of the divided into factore and the composition of the composition of the divided into factore and the composition of the compositi

body seems to have been even more conquered the Allemanni, and was genbulky in proportion, the tarsus being erally beloved for the goodness of his disshorter and stouter in order to sustain position, but was compelled by the its weight. They do not appear to have dangers threatening Rome to share the become extinct until the seventeenth or government with M. Aurelius Valerius eighteenth century, and are spoken of Maximian. In 292 C. Galerius and as moas by the natives, who buried the Constantius Chlorus were also raised to eggs with their dead as provision for their journey to the other world.

Dinosauria (di-no-sa'ri-a; Gr. deinos, terrible, and sauros, a lizard), a group of colossal lizards, resembling the pachydermatous mammals in general appearance, but in reality intermediate between the struthious birds and lizards. The majority, as the Megalosaurus, which attained to 40 feet in length, were carnivorous; the Iguanodon, however, was herbivorous. They were the land reptiles of the Jurassic, Wealden and inferior Cretaceous continents.

Dinotherium (di-no-the')

about 412 B.C. Having been banished the Bistones, who fed his horses on from his native place with his father, human flesh, and used to throw all who had been accused of coining false money, he went to Athens, and thrust those animals to be devoured. He was himself upon Antisthenes as a disciple. Like Antisthenes, he despised all philosophical speculations, and opposed the sophical speculations, and opposed the sophical speculations, and opposed the stern austerity of Antisthenes was repulsive, Diogenes exposed the follies of his contemporaries with wit and good against Troy, in which his courage and humor. As an exemplar of Cynic virtue the potention of Pallas rendered him he satisfied his appetite with the coarsest food, practiced the most rigid temperance, walked through the streets of thrice assailed Apollo; and by carrying Athens barefoot, without any coat, with a long beard, a stick in his hand, and a wallet on his shoulders, and by night, removal of Philotetes from Lemnos, he according to the popular story, slept in a fulfilled two of the conditions on which tub (or large earthenware vessel). On a voyage to the island of Ægina he fell into the hands of pirates, who sold him as a slave to the Corinthian Xeniades in Crete. The latter emancipated him, and entrusted him with the education of his children. He attended to the duties of his new employment with the greatest care, commonly living in summer at care, commonly living in summer at riage of the elder and the younger Diony-sius, tyrants of Syracuse, over whom he died in 323 B.C., at a great age. Of the long exercised great influence. He atmany stories related of him the majority tempted to reform the younger Dionysiare probably fictions; many indeed are completed in effecting his banishment. He accused him of various scandalous of-free city, but became unpopular, accused him of various scandalous of-free city, but became unpopular, accused him of various scandalous of-free city, but became unpopular.

modern histories of philosophy.

Diomedea (dI-o-me-de'a), a genus of Dion Cassius (dI'on kash'e-us), or birds, including the various Dio Cassius, a Greek

accused him of various scandalous of afterwards returned and made himself fenses, but there is no ground for supruler of the city, but became unpopular, posing him guilty of any worse fault and in 353 B.C. one of his followers, Calthan that of elevating impertinence to lipus of Athens, caused him to be assasthe rank of a fine art.

the rank of a fine art.

Diogenes Laërtius, author of a sort of history of philosophy in Greek, appears to have been born at Laerte, in Cilicia, and to have lived towards the close of the second century after Christ; but no certain information exists either as to his life, rise a naked scape bearing a corymb of studies, or age. The work is divided fairly large, white flowers. The leaves into ten books, and bears in MSS. the title, On the Lives, Doctrines and talked 2-lobed lamina, with three short, Apothegms of those who have distinguished themselves in Philosophy. It is are remarkably irritable, and when full of absurd and improbable anecdotes, but contains valuable information regarding the private life of the Greeks, the insect. It is said to digest the food and many fragments of works now lost. It was the foundation of the earlier modern histories of philosophy. juice.

species of albatross (which see).

Diomede Islands (d'i'o-mēd), a group of three father to Cilicia, of which he held the small islands in Bering Strait, and midway between Asia and America.

Diomedes (di-o-mē'dēz), in Greek senator. On the accession of Pertinax mythology, (1) A king of Dion was appointed prætor, and in the

reign of Caracalla he was one of the senators whom it had become customary to select to accompany the emperor in his expeditions, of which he complains bitterly. In 219 he was raised to the consulship, and about 224 became preconsul of Africa. In 229 he was again obscure parentage. He obtained the appointed consul; but feeling his life rank of general, and afterwards of comprecarious under Alexander Severus, he obtained permission to retire to his mative town of Nicæa. The period of power in Syracuse, though only a power in Syracuse, though only twenty-his death is unknown. The most important of his writings, though only a over other cities in Sicily; and after small part is extant, is a History of some successes and reverses in the struggenty books, from the arrival of Æneas complete victory over them under the in Italy and the foundation of Alba and Rome to A.D. 229.

(kris'os-tom), a Rhegium by famine (387). After another with Carthage he lived

Dionysius (di-ō-nish'e-us), ST., a disciple of Origen, and patriarch of Alexandria in 248 a.D. He was driven from the city in 250, and in 257 was banished to Libya, but was restored in 260. Died in 265 a.D.

Dion Chrysostom (kris'os-tom), a Rhegium by famine (387). After and and rhetorician and a favorite of Trajan; some time in peace, occupied with writand ruetorician and a ravorite of Trajan; some time in peace, occupied with writborn in A.D. 50; died about A.D. 110. ing poems, tragedies, etc., with which Eighty of his orations (in excellent Attic) have been preserved.

Dionysia (di-o-nish'i-a). See Bacchan-Carthaginians, but failed to drive them entirely out of Sicilv. He is easily to Carthaginians, but failed to drive them entirely out of Sicily. He is said to have died from a potion administered at the instigation of his son Dionyaius the

Younger (367 B.C.).

Dionysius, THE LITTLE (so called on account of his short statement who was about restored in 260. Died in 265 A.D.

Dionysius, Of Halicannassus, in caria, a Greek critic and of the sixth century, and died about the teacher of eloquence, born about 70 B.C. year 530, according to others about 545. He went to Rome about 30 B.C., where celebrated as the author of the computewenty books, in which he relates (in Greek) the early history of Rome and not publicly used until the eighth century, its government up to the times of the first Punic war. We have the first nine books of this work entire, the tenth and eleventh nearly and control of Syracuse, who in 267 This mode of computation, however, was not publicly used until the eighth century.

The Younger, a tyrant books of this work entire, the tenth and eleventh nearly so, and some fragments of the others. His rhetorical writings from the excesses to which he was adare of greater value, especially his esticated Dion persuaded him to invite about 6 B.C.

The Appears of the trong the Christian era.

The Younger, a tyrant B.C., succeeded his father, Dionysius the Elder. For the purpose of recalling him from the excesses to which he was adapted about 6 B.C.

The Appears of the Appears of the court has the court between the court has the court between the court Dionysius,
Areopagus, at Christianity by the Apostle Paul about the middle of the first century, and the first bishop at Athens, where he suffered martyrdom.

Certain writings formerly His misfortunes, however, had rendered ascribed to him consist of obscurely him more cruel, and Timoleon, who came written treatises on mystical subjects. Scotus Erigena translated them into Bootus Erigena translated them into Latin. In France, where a certain in 344 B.C. He was carried to Corinth, Dionysius (see Denis, St.) established the first Christian community at Paris by giving lessons in grammar, or as one in the third century, they were readily received, this Dionysius being without Thionysius (di-o-ni'sus), the original ceived, this Dionysius being without direction of the Areopagite, because the origin of the Gallican Church wine, the name Bacchus, by which he could thus be carried back to the first was called both by the Greeks and

the Romans, being at first a mere epithet representative.

or surname. See Bacchus.

Diophantus (di-o-fan'tus) of Alex-Andria, the first Greek writer on algebra, flourished, according to some authorities, about the middle of the fourth century after Christ. He left behind him thirteen books of Arithchelband him thirteen books of Arithchelb

The tortoise plant or

Diopside (di-op-sid), a rare mineral, a variety or subspecies of a vitreous luster, and of a pale green, or a greenish or yellowish white.

Diopsis (di-op'sis), a genus of dip-terous insects, or two-winged flies, the members of which are remarking a powerful odor when bruised. Some species are cultivated for their members of which are remarking a powerful odor when bruised. Some species are cultivated for their white or

flies, the members of which are remarkable for the immense prolongation of the species are cultivated for their white or pinkish flowers.

Dioptase ore, silicate of copper, a translucent mineral, occurring crystallike in six-sided prisms.

Dioptrics (di-op'triks), that part of optics which treats of the refraction of light passing through different mediums, as through air, water or glass, and especially through lenses. These phenomena, however, are now more commonly treated under the head of refraction. See Refraction.

Dioptase (di-orama), a mode of altitude for the ingular powerful odor when bruised. Some species are cultivated for their white or pinkish flowers.

Diospyros (di-orjeros), a large genus of trees or shrubs, natives of the warmer regions of the warmer regions of the warmer regions of the warmer regions of the trees of the sepcies are cultivated for their white or pinkish flowers.

Diospyros (di-orjeros), a large genus of trees or shrubs, natives of the warmer regions of the warmer r

These phenomena, however, are now more commonly treated under the head of refraction. See Refraction.

Diorama (di-\(\tilde{o}\)-ra'ma), a mode of painting and of scenic exhibition invented by Messrs. Daguerre and Bouton, and first exhibited in 1823. It secures a higher degree of illusion than the ordinary panorama, by a mode of uniting transparent painting to the usual copaque method, and causing the light to fall upon the picture both from before and behind. At the same time, by means of colored transparent blinds, suspended both above and behind the suspended both above and behind the surface is called the strike, and is alpicture, the rays of light can be intercepted and made to fall at pleasure in graduated tints upon every part of the picture in succession.

Diorite (di'o-rit), a tough trap-rock, sometimes of a whitish color speckled with black or greenish black, sometimes very dark in color, consisting of hornblende and feldspar.

Dioscoreaceæ (dI-os-kor-e-\(\tilde{a}\)'cs-\(\tilde{e}\), a not order of endogenous plants, with alternate reticulateveined leaves, tuberous root-stocks and twining stems. The flowers are small and unisexual. There are six genera, which includes the surjace is always accompanied by a specific bacterium, is contagious, genus is Dioscorea, which includes the only British

an earlier pair.

on the inside so as to be mirrors, while due to partial paralysis of the larynx. the third is formed of glass. The prism is adjusted so that one of the silvered sides shall be exactly in the plane of the meridian, and the transparent side to
Diplozoon (di-plo-zoon), a parasitic wards the object.

Diploma (di-plo'ma; Gr. diploma, fests the gills of the bream, and which from diploo, to double or appears to be formed of two distinct fold), literally a locument folded but bodies, male and female, united in the once, and therefore divided into two middle, and resembling an X. parts. It is used to signify a document Dipnoi (dip'noi; Gr. di, die, double, signed and sealed, in which certain and pnoe, breath), an order of rights privileges dignities etc. are con-fishes including only the singular mode.

very low state of the system, indicating the necessity of giving stimulating nour-ishment very freely. The membrane may arranging treaties, etc., between nations; spread more or less, going down into the windpipe or up the nose, and death may be caused by suffocation and exhaustion, the violence of the poison sometimes causing it even without the formation of the membrane. The most essential thing in its treatment is to give generally considered as the founder of antitoxin, keep up the strength by food the exudation. See Antitoxin.

Diphthong or union of two vowels to the exudation. See Antitoxin.

Diphthong or union of two vowels are proper diphthong both vowels are proport diphthong one syllable, as in more vowels, of which only one is sounded, as in bean.

Diphydoont (diffo-dont), a term mals which develop two sets of teeth, as deciduous or milk set, and a permanent set—as distinct from the monophyodonts, which develop only one set. The majority of mammals are diphyodont, though the individual to those animals which develop two sets of teeth, as deciduous or milk set, and a permanent set—as distinct from the monophyodonts, though the individual to those animals which develop two sets of teeth, as deciduous or milk set, and a permanent set—as distinct from the monophyodonts, the number of teeth replaced may vary; of the same rank he who arrives first thus in man twenty teeth of the adult are preceded by a milk set; in the hare, the posterior smaller incisors replace are first that a fell proper the posterior smaller incisors replace are first that a fell proper the posterior smaller incisors replace are first that a fell proper the posterior smaller incisors replace are first that a fell proper the posterior smaller incisors replace are first that a fell proper the posterior smaller incisors replace are first that a fell proper the posterior smaller incisors replace are first to color the same rank he who arr but the posterior smaller incisors replace sends ambassadors to the leading countries of Europe.

an earlier pair.

Diplacanthus (di-pla-kan't hus), a genus of ganoid fishes, found only in the Old Red Sandstone. They have small scales, a heterocercal tail, and two dorsal fins with a strong spine in front.

Dipleidoscope (di-pli'do-skōp), an instrument for indicating the passage of the sun or star over the meridian, by the coincidence of two images of the object, the one formed by single and the other by double deflection. It consists of an equilateral hollow prism, two of whose sides are silvered to partial paralysis of the larynx.

rights, privileges, dignities, etc., are confishes, including only the singular mudferred, especially a university degree, fishes (Lepidosiren), important as ex-

hibiting the transition between fishes and and walk under water, effecting its prog-the amphibia. Formerly Lepidosiren ress by grasping the stones with its the amphibia. Formerly Lepidosiren was reckoned the lowest of the amphibia, now it constitutes the highest order of fishes. The body is fish-like in shape, covered with small, horny scales of a cycovered with small, horny scales of a cycloid character; the pectoral and ventral fins are represented by two pairs of long, filiform organs; the heart has two auricles and one ventricle, and the respiratory organs are twofold, consisting of ordinary gills opening externally, and of true lungs—formed by the modified swimming-bladder—communicating with the æsophagus by means of an air duct or trachea, whence the name. They are also called *Protopteri*. The combination of respiratory organs is similar to that which is presented by the tailed amphibians with persistent gills (perennibranchiate), as the axolotl. This interesting group is allied to the ganoids through the Ceratodus of Queensland. The L. paradowa is found in the Amazon; L. annectens in the Gambia.

Dipping-needle, or Inclination of the Compass, an innectens in the Gambia.

be obtained by the destructive distriation of animal matter, such as stag's-horn, ivory, or blood. The cruder form was used in medicine, despite its appearance and odor, until Dippel refined it. His passmodic and diaphoretic, but is no longer used in medicine.

Dipsas (dip'sa-kus). See Teasel.

Dipsas (dip'sas), a genus of Asiatic and tropical American non-american of the family Columbiants of the family Columbiants of the ancients it was a serpent whose bite was said to produce a mortal thirst.

Dipper (dip'er), a bird of the genus Dipper (dip'er), a bird of the genus Cinclus, allied to the thrushes.

The common dipper, water-ouzel, or wandness), a term recently introduced to ter-crow (Cinclus aquaticus), is a familiar European bird; it is about 7 inches ing liquors, when occurring in a continuded wings, and large, powerful feet; hereditary origin, but may result from the bill is of moderate length, straight sunstroke, from some injury to the brain, and slender. The male has the upper or from disease. The only remedy appart of the body dark brown, the throat pears to be seclusion, with enforced aband breast white, belly rusty. The dipper frequents streams, and feeds largely for this purpose have been established on water insects and larve. It can dive in Britain and the United States.



paradows is found in the Amazon; L. annectens in the Gambia.

Dippel (dip'el), Johann Conrad, a chemist, born in 1672. He studied theology, defended the orthodox party against the Pietists, led a turbulent life at Strasburg, and then joined the Pietists until an unfortunte tractate placed him in disfavor with both parties. He then turned his attention to alchemy, and during a residence at Berlin produced the oil called after him (see next article), from which indirectly followed the discovery of Prussian or Berlin blue. After various adventures and wanderings in Sweden, Denmark and Germany he died in 1734.

Dippel's Oil, the rectified form of the black fetid oil, containing ammoniac carbonate, which can be obtained by the destructive distillation of animal matter, such as stag's-horn, yory, or blood. The excepter form work or blood of the magnetic dipricacy. The containing ammoniac carbonate, which can be obtained by the destructive distillation of animal matter, such as stag's-horn, yory, or blood. The excepter form work or blood talled after form of the black fetid oil, containing ammoniac carbonate, which can be obtained by the destructive distillation of animal matter, such as stag's-horn, yory, or blood. The excepter form work or blood talled and the contact of the components of the componen

Dipsacus (dip'sa-kus). See Teasel.

Diptera (dip'te-ra), an order of two winged insects, of which the common house-fly and the blue-bottle are familiar examples. They are characterized by a body with slight coriaceous coverings, a trunk open beneath, and containing a sucker composed of two, or six lancet-shaped elongated scales, two palpi, antennæ almost always a composed of three joints, large eyes, an tabdomen of from four to seven distinct segments, tarsi with five joints, and two short clubbed appendages called halteres or balancers, which seem to be the rudiments of the posterior pair in four-winged insects, and are kept in continual motion. All undergo complete metamorphosis, and all are oviparous except the Sarcophaga, which issue from their mother in shape of larwe; and the Pupipara, which first make their appearance as nymphs. The greater number live on the sap of flowers, but some feed on blood, others fasten on other animals to lick up their perspiration, their sores, or various secretions.

Dipteraces (dip-te-ra/se-ē), Dipteraces of resinous, oily, and other substances; one, a sort of camphor; another, a fragrant resin used in temples; and others.

one, a sort of camphor; another, a fra-grant resin used in temples; and others,

ber.

Diptych (dip'tik; Greek) originally delegates were held, who nominated the ma, something folded; the double tablets of metal, ivory, etc., used by the Greeks dand Romans. Diptychs became important in the Christian church, in them being written the names of popes, and other distinguished persons who had deserved well of the church, to be mentioned in the church prayers. Diptychs also often contained pictures of Biblical scenes, etc.

Things See Jorbos.

Dipus. See Jerboa.

Dipyre (dl'pir), a mineral consisting a constant ratio; also, chiefly of silicate of alumina, the name given to any with small proportions of the silicates of line, whether straight or soda and lime. Its name indicates the not, that is required for double effect of fire upon it (Gr. di, double, pyr, fire) in producing first phosble, pyr, fire) in producing first phosphorescence and then fusion.

Diræ, or Eumenides. See Furies.

Directors (di-rek'turs), persons elect-tance from the vertex is equal to the ed to meet together at distance of the vertex from the focus. short fixed intervals and consult about Thus A B is the directrix of the parabola the affairs of corporations or joint-stock v E D, of which F is the focus. companies, and to advise and assist the manager. These are termed Ordinary Dirk (derk), a kind of dagger formermanager.

varnishes; while some of the commonest for office now adopted in many of the produce pitches, and sal, valuable tim- States of the American Union. Under the former method conventions of elected

the distance of the same point from the focus in a parabola is a line perpendicular to the axis produced, and whose dis-



Directrix of a Parabola.

by the Highlanders of Scotland. Dirks bell. The church numbers over two and a are worn by midshipmen and cadets of quarter million members. the royal navy, and still form part of the full Highland costume.

Disclaimer (dis-klām'er), in its stricter legal sense, a stricter legal sense, a decident disclaimer decident.

rudimentary stamens, in others of the modified receptacle.—In astronomy the term is applied to the face or circular figure exhibited by the sun, moon, or a planet in the sky.

Discharge. See Calico-printing.

(dis-charj'ing), Discharging Arch an arch formed

in the substance of a wall to relieve the part which is below it from the superincumbent weight.
Such arches are
commonly used over
lintels and flatheaded openings.

Disciples of Christ, or CHRIS-

sometimes called Discharging Arch. CAMPBELLITES, a n

tralia, 45 miles long north to south, and 10 miles broad.

Dirt-beds, in geology, layers of anthe oblitic strata of the Isle of Purbeck (Dorset), which contain the stumps of trees that once grew in them.

Disability (dis-a-bil'i-ti), in law, incapacity to do any legal act. It is either absolute, which wholly disables the person; such as outlawry or excommunication—or partial, such as ination of sounds, so called in opposition to the concord. See Disconnt.

Disbanding (d i s-b a n d' ing), the breaking up of a regiment, or other body of military, and releasing them from service, when they are no longer required, or it may be on ac-deducts the charge for interest on his ad-Disbarring (dis-bar' in g), expelling on the security, pays the difference, a barrister from the bar, which is called the proceeds of the bill, a perrogative which, in England, is postone to the person parting with it, and collects sessed by the benchers of each of the four Inns of Court. The party disfor outlay and interest at maturity. barred may lodge an appeal with the logidges in their capacity of visitors.

Disc, Disk, the central part of an account made by the party to whom it is paid, especially on prompt or early rounded by the ray. Also a part, sometimes cup-shaped, at the base of the stamens, consisting in some cases of the rudimentary stamens, in others of the Discovery (dis-kov'e-ri), in law, the

Discovery (dis-kov'e-ri), in law, the act of revealing or making known any matter by a defendant in his answer to a bill in chancery. The word is also used in reference to the disclosure by a bankrupt of his property.

Discrase (dis'krās), an ore of silver, consisting of antimony and silver. It occurs in hexagonal prisms.

Discus (dis'kus), Disc, or Disk, among the Greeks and Romans a quoit of stone or metal, convex on both its sides, sometimes perforated in the middle.

Disease (diz-&z'), any morbid state of the body, or of any organ or part of the body. Diseases are described as local or constitutional, idiopathic, symptomatic, epidemic, endemic, contagious, acute, chronic, etc. As to their classification, see Nosology. The influence of the prepare on the consistence of the prepare of the prepa ence of the parents on the organisation of the child is so great that not only pe-culiarities of external form, but the American religious organization, had its cultarities of external form, but the beginning in 1809. See Alexander Camppeculiar constitution, the greater or less

activity and development of the organs, are found to pass from parent to child. As it is in the particular state of the several organs and functions that a very great part of diseases have their foundation, the liability to certain dis-eases may be inherited with the organic structure, and the son attacked by various complaints at the same period of life in which his father was. The most important hereditary defect is physical portant hereditary defect is physical weakness. These diseases are called hered-lect to accept or pay when due a bill of itary; but it is only the predisposition to them that is inherited. Hence the actual development of hereditary diseases cooperating circumrequires certain Constitutional diseases often atances. depend on circumstances which affect the life calculated to counteract the inherited

classes: those produced by temperature, excess or deficiency of moisture and light, animal or vegetable world. Too high a and also the closet which receives them temperature will produce an excitement In a country place it is best to bury them inconsistent with healthy growth, while in a considerable depth of earth. Every a low temperature destroys the connection between the cells, and is one of the chief causes of cancer. In the absence lurk in them and break out after a lapse of light the chemical changes necessary of months or years. of light the chemical changes necessary of months of years, to the complete development of the chlorophyll will not take place, and the plant is in consequence blanched. Tening and sometimes for mixing various der tissues, however, frequently require materials, such as rock, asphalt, ore, arms. man, certain vegetables find a congenial atmosphere, but in most cases pure air atmosphere, but in most cases pure air is indispensable, as shown by the difficulty of cultivating plants in the heart of towns. Few things are more prejudicial cases in which the articulating surfaces to plant life than excess of moisture, partly from its immediate action on the tender tissues of the roots, and partly from takes its name either from the from decomposition, but, more than all, joint itself or its furthest bone, and is

from the low state of temperature which is kept up at the very point where a certain degree of heat is essential. Diseases springing from the actions of other organisms may be classed as direct injuries, alterations of tissues from the presence of larvæ of insects, exhaustion from parasitic insects or plants, especially fungi.

Dishonor of a Bill (dis-on'ur), the exchange, or promissory note, or draft on a banker. It is absolutely necessary that the holder of a dishonored bill should give immediate notice of the nonpayment to the drawers or endorsers.

Disinfectant (dis-in-fekt'ant) is any devised on circumstances which arect the Disinfectant (dis-ni-lekt ant) is any fectus during pregnancy. Among the dis-eases, the predisposition to which is the germs and odors of contagious and most frequently hereditary are scrofula, infectious diseases. The most important hemophilia (especially bleeding at the for practical purposes are formaldehyde, lungs), and hemorrhoids, consumption, chlorine, carbolic acid, sulphurous acid, most frequently hereditary are scrofula, infectious diseases. The most important hæmophilia (especially bleeding at the for practical purposes are formaldehyde, lungs), and hemorrhoids, consumption, chlorine, carbolic acid, sulphurous acid, gout, gravel and stone, cancer, disorders Condy's fluids (containing respectively of the mind, hysterical and hypochondriac manganate and permanganate of potash), affections, apoplexy, epilepsy and organic and Burnett's fluid, containing chloride diseases of particular parts, especially of sinc. Carbolic acid is one of the most the heart. Inherited diseases are much effective, needing, however, some little more difficult to cure than those which care in the handling, as it sometimes originate in accidental external causes, causes severe burns. It does not in its and special care should therefore be taken to adopt an environment and mode of on the surface undiluted. For application life calculated to counteract the inherited to the skin Condy's fluid is one of the to the skin Condy's fluid is one of the predisposition. As to the origin of certain diseases see Germ Theory.

Diseases of Plants, may be divided into two main should at once be placed about the house, especially in the sickroom and in the passages and landing outside. A large excess or deficiency of moisture and light, passeges and fanding outside. A large impure air, the composition of the soil, sheet also should be nailed so as to hang and other mechanical or chemical agenacross the door, and this should be kept cies; and those produced by other organized beings, whether belonging to the excretions should be instantly disinfected animal or vegetable world. Too high a and also the closet which receives them temperature will produce an excitement In a country place it is best to bury them in a considerable death of earth.

der tissues, however, frequently require materials, such as rock, asphalt, ore, ar-protection from a too free admission of tificial manures, sugars, corn, the ingre-light. In tropical forests, unhealthy to dients of mortar, etc.

called compound when accompanied with power of the crown still exists. In ecclean external wound. The most common stastical matters a bishop may grant a dislocations are those of the hip, shoulder, dispensation allowing a clergyman to elbow, knee and ankle, and the chief ob-hold more than one benefice or to absent dislocations are thankeled to their reduction is the spasmodic and violent contraction of the muscles consequent upon them, the application of considerable force often being necessary to set the joint. Chloroform is of great use, not only in preventing pain, but in relaxing the muscles. The most dangerous dislocations are those of the bones of the spine.—In geology it signifies the displacement of parts of rocks or portions of strata from the situations of strata from the situations of the spectrum and the relative space occupied by the colored rays vary greatly control of the spectrum and the relative space occupied by the colored rays vary greatly the refracting medium, the

Dismal Swamp, a large tract of marshy land, beginning a little south of Norfolk, Virginia, and extending into North Carolina, containing 150,000 acres; 30 miles long, from north to south, and 10 broad. This tract was formerly covered with trees, with all past imprevious breakward by and extending into North Carolina, containing 150,000 acres; 30 miles long, formed by a glass prism. from north to south, and 10 broad. This tract was formerly covered with trees, with almost impervious brushwood between them, but it has now in part been cleared and drained. In the midst of the swamp is a lake, called Drummond's after his death, equivalent to a will or Pond, 7 miles in length. A navigable canal through the swamp connects Chesapeake Bay and Albemarle Sound.

according to the refracting medium, the spectrum from a prism of oil of cassia

apeake Bay and Albemarle Sound.

Dismas (dismas), St., the name of the penitent thief, according to mediaval legends.

Dismas (dismas), St., the name of the penitent thief, according to mediaval legends.

Dismaeli, Benjamin. See Beaconsfield.

(diz-ra'e-li), Isaac, man of the distance of the content of the letters, and father of the letters. Dismas (dismas), Sr., the name of the penitent thief, according to medisval legends.

Dispart (dispart), the difference between the semidiameter of the base ring at the breech of a gun and that of the ring at the breech of a gun and that of the ring at the swell of the muzzle.

Dispensary (dispensaries, and father of the Benjamin D'Israeli (dispensaries), a public institution, primarily intended for the poor, where medical advice or sometimes for a small charge. It is given and medicines are furnished free, tone is given and medicines are furnished free, tone is given and medicines are furnished free, tone is given and medicines are found in most ary bent. An anonymous reply to Peter large towns in the United States and Pindar, entitled On the Abuse of Satire, Europe. In the Old World they originated in monasteries. The oldest one in the United States was opened in New York in 1790.

Dispensation (dispensar's hun) is afterwork. His Essay on the Literary Character was published in 1795, and some time afterwards a volume of roexception is made to the rigor of the law mantic tales, The Loves of Mejnoun and in favor of some person. The pope may Leila. Between 1812 and 1822 appeared release from all oaths or vows, and may sanction a marriage within the prohibited degrees of the Mosaic law, or exempt from obedience to the disciplinary intendence of the canon law. In England the monarch claimed, in former Literature. In 1828 appeared the company three being afterwards published collectively under the title of Miscellanies of Literature. In 1828 appeared the company three being afterwards published in 1831. abused by the Bill of Rights. The power projected life of Pope and a history of of commuting sentences in capital cases English Freethinkers, but in 1841 he is the only form in which the dispensing published a selection from his MSS. un-

his seizin. Of freeholds only can a seizin be had, or a disseizin done. Whether an entry upon lands is or is not his seizin. Of seizin be had, known by his words or acts.

Dissenters (dis-ent'ers), the common name by which in Britain all Christian denominations, excepting that of the Established Churches, are usually designated, though in acts of parliament it generally includes only Protestant dissenters, Roman Catholics being referred to under their specific name. The most important bodies of English dissenters are the different bodies of Methodists, the Congregationalists and the Baptists; and of Scotch dissenters, the Free Church and the United Presbyterian Church. The Nonconformists were dissenters from the English Church.

Dissentis (dis's en-tis), a town of Switzerland, canton Grisons, 614. Pop. 1400.

Dissociation (dis-sō-shi-ā's h u n), a chemical term used to express the partial decomposition which

der the title of Amenities of Literature. Picture is drawn out of focus gradually, He died in 1848. The greater part of his life was passed in his library.

Diss (dis), a town of England, Norducing the haze and brilliancy which folk, on the slope of a hill 18 miles have gained this sort of exhibition its south by west from Norwich. It was name. If two lanterns are used, they formerly noted for the manufacture of 'Suffolk hempen cloth,' worsted yarn and knit hosiery. Pop. 3769.

Disseizin (dis-85'sin), or DISSEISIN, one of a freehold estate, or interrupting shut off and the image of other lanterns shut off and the image of other lanterns be correspondingly disclosed.

be correspondingly disclosed.

Dissonance (dis'u-nans), in music, that effect which results a disseizin will depend partly upon the from the union of two sounds not in circumstances of the entry and partly accord with each other. The ancients circumstances of the entry and partly accord with each other. The ancients upon the intention of the party, as made considered thirds and sixths as dissonances; and, in fact, every chord except the perfect concord is a dissonant chord. The old theories include an infinity of The old theories include an infinity of dissonances, but the present received system reduces them to a comparatively small number. The most common are those of the tonic against the second, the fifth against the sixth, or (the most frequent of all) the fourth against the fifth.

Distaff (dis'taf), the first instrument employed in spinning. It consisted of a staff, on one end of which the wool or flax was rolled. The spinner held it in the left hand, and drew out the fibers with the right, at the same time twisting them. A small piece of wood called a spindle was attached to the thread, the weight of which carried Switzeriand, canton Grisons, the thread, the weight of which carried about 3800 ft. above the sea, at the juncit down as it was formed. When the tion of the Middle and Vorder Rhine, spindle reached the ground the thread with a Benedictine abbey established in which had been spun was wound round 614. Pop. 1400.

it, and it was then again fastened near the beginning of the new thread.

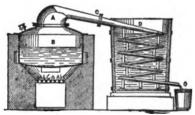
on chemical term used to Distemper (dis-tem'per), a disease of partial decomposition which when chemical compounds sidered as of a catarrhal nature. In takes place when chemical compounds sidered as of a catarrhal nature. In are exposed to a high temperature; as most cases a running from the nose and when by the passage of steam through eyes is one of the first and chief sympa white-hot platinum tube some of it toms, the defluction becoming after some is decomposed and an explosive mixture time mucous and purulent. The animal of oxygen and hydrogen may be collected. is subject to violent fits of coughing com-In his writings on dissociation Ste. Claire bined with vomiting, loses its appetite, Deville uses the term in a more extended its flesh begins to waste, and if the sense, as denoting the separation of a disease be virulent, symptoms of affection body into its constituents (whether sim- of the brain manifest themselves, accomple or compound) at a temperature in-panied by fits, paralysis, or convulsive ferior to that at which its composition is twitchings. In the first stage of the disusually seen to take place.

Dissolving Views (di-solv'ing) are bleeding are the principal remedies; diarplass magnified and thrown with great and to reduce the violence of the fits warm distinctness upon a screen by means of one or two magic lanterns with strong resorted to. The distemper is generally lenses, and illuminated by the oxyhydrocontagious, and occurs but once in a gen light. If one lantern is used the now chiefly in scene-painting and in paper for walls, but was employed in the higher departments of art before the introduction of oil-painting in the fif-teenth century. Distemper is painted on a dry surface, fresco on wet mortar or plaster.

Distich (dis'tik), a couplet of verses, especially one consisting of a Latin or Greek hexameter and pentam-

eter, making complete sense.

Distillation (distillation and subsequent condensation of a liquid by a special apparatus, resulting in a separation of the liquid from a mixture. The operation is performed by heating the crude liquid or mixture in a retort or vessel known as the body of the still. This is made of various shapes and materials, and is closed with the exception of a slender neck which opens into the condenser, a long tube through which the hot vapor from the still is passed. The tube is kept at a sufficiently low temperature to cause the vapor to condense, the common method of securing dense, the common method of securing this being to surround the tube with a constantly renewed stream of cold water. In some cases ice or a freezing mixture may be required to effect condensation. On a large scale the condensing tube is coiled round and round in a tub or box. and is known as a worm. From the end of it the vapor, condensed into a liquid, drops or distils into a receiver. The simplest case of distillation is that of water containing solid matter in solution, the solid matter remaining behind in the still or retort while the water trickles pure into the receiver. The cut which



Distilling Apparatus.

Distemper (I talian, tempera), in water, the distilled liquid trickling out at painting, a preparation of o. The cold water round the worm reopaque color mixed in a watery glue, such quires to be continually renewed, as as size, white of egg, or gum. It is used it absorbs the heat. When the mixo. The cold water round the worm requires to be continually renewed, as it absorbs the heat. When the mixture to be distilled consists of two or more liquids of different boiling-points, such as alcohol and water, the more volatile comes off first, accompanied by a certain proportion of the vapor of the other, so that it is hardly possible completely to separate bodies by one distillation. This is effected by repeated successive distillations of the liquid with or without the addition of substances to retain the impurities. When the production of one of the ingredients only is without the addition of substances to retain the impurities. When the production of one of the ingredients only is aimed at by this process, it is called rectification, but when it is desired to separate and collect all the liquids present, or to divide a mixture into portions lying within certain ranges of temperature ascertained either by the thermometer or by the amount of liquor run off, or by the appearance of the distillate, etc., the the appearance or the distillate, etc., the process is called fractional distillation. In the laboratory, distillation is employed for purifying water, for recovering alcohol and ether, and for the preparation, purification, and separation of a great number of bodies. On the large scale distillation is employed in the preparation of paters and the preparation of paters and the preparation of paters and the preparation of paters. number of bodies. On the large scale distillation is employed in the preparation of potassium, sodium, zinc, mercury; of sulphuric acid, ether, chloroform, sulphide and chloride of carbon, essential oils and perfumes; purification of coal and wood tar, and the products obtained from them; and, most extensive of all, the manufacture of whisky, brandy, or other spirit. Sea-water is also distilled in many cases for drinking or cooking purposes. Destructive distillation differs from the preceding in this respect, that the original substance is not merely separated into the bodies by the mixture of which it is formed, but is so acted on that it is completely decomposed, and bodies are produced which had no existence in the original matter. The term is restricted to the action of heat upon complex organic substances out of contact with the air. The products of determined distillation are considered. tact with the air. The products of destructive distillation are numerous and varied. On the manufacturing scale the varied. On the manufacturing scale the process is conducted sometimes for one part, sometimes for another part of the products. Coal, for example, is distilled primarily for the gas, but also for ammoniacal water, benzol, anthracene, and sometimes for the sake of the fixed carbon or coke the volatile portions being negrepresents a simple form of still, shows lected and practically wasted. Wood is B, a copper boiler, the 'body' of the still, distilled partly for the sake of the pyrobing the 'head,' and c the 'neck,' ligneous acid and the tar, partly for the which communicates with the spiral worm charcoal. Bones are distilled for the p placed in a vessel which contains cold sake of the charcoal, though the oil is also

collected.

the sake of the oil. Distoma (dis'to-ma), a genus of tre-matode or suctorial parasiti-cal worms or flukes, inhabiting various parts in different animals. D. hepatical worms or flukes, inhabiting various Districts, sions in the United States cum, or common liver fluke, inhabits which each return a representative to the gall-bladder or ducts of the liver Congress. Their number varies at differing sheep, and is the cause of the disease ent times, being fixed after each decenknown as the rot. They have also been nial census. discovered in man (though rarely), the horse, the hog, the rabbit, birds, etc. In form it is ovate, flattened, and presents two suckers (whence the name), making a fence to guard enclosures, or of which the enterior is perforated by for preventing a perforated of the contraction of the contract of the con

generation. Distress (dis-tres'), in law, is the takng of a personal chattel of
a wrongdoer or a tenant, in order to
obtain satisfaction for the wrong done
or for rent or service due. If the party
whose goods or cattle are seized disputes
the injury, service, duty, or rent, on
account of which the distress is taken,
he may replevy the things taken, giving
bonds at the same time, to return them
trict of Holstein, in Germany, consisting
trict of Holstein, in Germany, consisting he may replevy the things taken, giving bonds, at the same time, to return them trict of Holstein, in Germany, consisting or pay damage in case the party making of a monotonous flat stretching along the the distress shows that the wrong has German Ocean, between the mouths of been done, or the service or rent is due. the Elbe and the Eider, and so little Another description of distress is that of raised above the sea as to require the attachment, to compel a party to appear protection of strong embankments. The before a court when summoned for this area is 500 sq. miles, and the total pop. purpose. The distresses most frequently above 70,000. made are on account of rent and taxes and damage-feasance.

Distribution of Animals shun). See Zoology.

Distribution of Plants.

against the Federal government and con-labiates. ducts civil actions in its behalf.

District Courts (dis'trikt), an im-

Shale is distilled solely for each State, but the larger States have more than one.

District of Columbia.

Districts, CONGRESSIONAL, the divisions in the United States

of which the anterior is perforated by for preventing an enemy from approach-the aperture of the mouth. A branched ing a town or fortress. In the latter water-vascular system is present, and sense it is called also a fosse or moat. opens posteriorly by a small aperture. and is dug All the animals of this genus present the between the phenomenon known as 'alternation of Fortification. and is dug round the rampart or wall between the scarp and counterscarp. See

Dithyrambus (d i t h-i-r a m' bus),

d taxes Dittany (dit'a-ni), the popular name d taxes Dittany (dit'a-ni), the popular name (d i s- Dictamnus, an herb of the rue family tri-bû- (Rutaceæ), found in the Mediterranean region. The leaves are pinnate, the large See Bot- white or rose-colored flowers are in Distribution of Plants. See Botany.

District Attorney (dis'trikt), the public prosecutor within a defined district. One is elected in each county in each state, and the Federal government also appoints one for each United States judicial district. The state district attorney prosecutes criminals before the state courts, while distany of the triple of the state district attorney prosecutes the federal government official prosecutes offences against the Federal government and con-labiates.

Diu (de'o), an island of Hindustan, belonging to the Portuguese, on District Courts (dis'trikt), an important series of the northwest coast, off the south excourts in the United States, each under tremity of Gujerat, from which it is a single judge, and having original jurisdiction in civil, criminal and admiralty is 7 miles in length, from E. to w., and 2 causes, in which the general government or officers of the government are concerned. They are now over one hundred in number. Generally there is one for the seat of a considerable commerce, but

Diuretics (di-\(\text{0}\)-ret'iks), medicines intended to increase the secretion and discharge of urine. They a tree which grows in tropical America, either act directly on the kidneys, exciting these organs to increased action; or sapan, brazil, and other red woods. The indirectly by first influencing the circulation. Of the first class are squill, broom, juniper, alcohol, potash, etc.; of the second, digitalis, elaterium, cream of tartar, etc.

Diurna (dI-ur'na), a name sometimes ners and dyers.

given to the diurnal lepidopte Divination rous insects or butterflies.

(Colymbidæ) are a family of swimming birds (Natatores), characterized by a ground (Natatores), characterized by a promoncy, by fire, etc.

strong, straight, rather compressed pointed bill about as long as the head; a short and rounded tail; short wings; etc.

a short and rounded tail; short wings; etc.

bivine Right (divIn'), the claim set up by some soverestation, compressed legs, placed very far obedience of subjects as ruling by ap-back, and the toes completely webbed. They prey upon fish, which they pursue though they may themselves submit to reunder water, making use partly of their legs and webbed feet in their subaqueous progression. The leading species are the great northern diver (Colymbus glacidis), the red-throated diver (C. septentrionalis), and the black-throated diver (C. Arotious). These birds inhabit the Arctic seas of the New and Old worlds; they are abundant in the Hebrides, Norway, and the black-throated diver (C. Arotious). These birds inhabit the Arctic seas of the New and Old worlds; they are abundant in the Hebrides, Norway, are individed, a term diver, loon, or ember goose, is about 2% feet long, and is of handsome plumage.

Dividend (div'i-dend), literally what is to be divided, a term used in arithmetic and in reference to stocks, etc. In the latter sense it is the interest or profit of stocks divided among, and paid to, the proprietors. It also signifies the payment made to creditors out of the estate of a bankrupt.

Dividers (di-vi'ders), a pair of complete the payment made to creditors out of the estate of a bankrupt.

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Dividers (profit of stocks divided among, and paid to, the proprietors. It also signines contrived to render diving more not the estate of a bankrupt.

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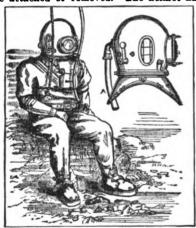
Di

is now a place of no importance. Pop. these perform work of extraordinary fine-of island, 14,614.

Divination (divi-na'shun), the act of divining; a foretelling fu-Divan (divan'), a Persian word having several significations. It is or obscure, by the aid of superior bestate, the Turkish ministry; also for a large hall for the reception of visitors. Among several oriental nations this name is given to certain collections of lyric effected by a kind of inspiration or poems by one author. The divans of Hafis and Saadi, the Persian poets, are among the most important. In Western Europe the term is applied to a cafe, and to a kind of cushioned seat.

Divers (divers), birds remarkable for of entrails and flight of birds, lots, omens, positions of the stars, etc. Among modes of divination were: axinomancy, by axes; bibliomancy, by Colymbids) are a family of swimming birds (Natatores), characterized by a strong, straight, rather compressed pointed bill about as long as the head; a short and rounded tail; short wings;

surface of water for a length of time, to municates with an air-pump above.



Diving-dress and Diving-helmet by Siebe, Gorman & Co.—a, Pipe by which air is supplied; b. valve by which it escapes.

usually which enters the helmet and com- The material used is an alloy of alumi-

perform various operations, such as ex- allow of the escape of the used air there amining the foundations of bridges, blast- is sometimes another flexible tube, which smining the foldinations of bridges, blast is sometimes another next the truck, which ing rocks, recovering treasure from is led from the back part of the helmet sunken vessels, etc. Diving-bells have to the surface of the water. But in the been made of various forms, more more improved forms of the dress, the especially in that of a bell or hollow breathed air escapes by a valve so contruncated cone, with the smaller end structed as to prevent water from getting truncated cone, with the smaller end structed as to prevent water from getting closed, and the larger one, which is placed in, though it lets the air out. Leaden lowermost, open. The air contained weights are attached to the diver, and within these vessels prevents them from his shoes are weighted, that he may be haing filled with water on submaries as the divergence of the contained with the story of the contained with the shoes are weighted, that he may be within these vessels prevents them from his shoes are weighted, that he may be being filled with water on submersion, so able to descend a ladder, walk about that the diver may descend in them and below, etc. Communication can be carbreathe freely for a long time, provided ried on with those above by means of a he can be furnished with a new supply cord running between the diver and the of fresh air when the contained air beattendants; or he may converse with them comes vitiated by respiration. This is through a speaking tube or a telephonic done by means of a flexible tube, through a paperatus. One form of diving-dress done by means of a flexible tube, through apparatus. One form of diving-dress which air is forced into the bell. A makes the diver independent of any conform, called the nautilus, has been in-nection with persons above the water. rorm, called the naturas, has been in nection with persons above the water. wented which enables the occupants, and It is elastic and hermetically closed. A not the attendants above, to raise or sink reservoir containing highly compressed air the bell, move it about at pleasure, or is fixed on the diver's back, which supraise great weights with it and deposit plies him with air by a self-regulating them in any desired spot. them in any desired spot.

Diving-dress, a waterproof dress of his depth. When he wishes to ascend the simply inflates his dress from the restricted by professional divers, and covering the entire body except the head. The dress Fleuss dress, makes the diver also indehas a neck-piece or breastplate, fitted with a segmental screw bayonet joint to take a supply of commendation. with a segmental screw bayonet joint, to tains a supply of compressed oxygen, and which the head-piece or helmet, the neck the exhaled breath is passed through a of which has a corresponding screw, can filter in the breast-piece which deprives be attached or removed. The helmet has it of its carbonic acid, while the nitrogen goes back into the helmet to be mixed with the oxygen, the supply of which is under the diver's own control, and to be successively breathed. A diver has remained an hour and a half under 35 feet of water in this suit.

A considerable enlargement of the field of deep-sea diving is the result of the invention recently of a form of diving apparatus which is unaffected by the limitations hitherto imposed on work of this kind. A possible depth of 204 feet is rec ognized by the British Admiralty regulations under the conditions that obtain with the common form of diving suit. Yet this depth has probably never been reached. One hundred feet is the rare descent of the average diver and 150 feet his maximum. With the new apparatus a submergence of 212 feet has been oba submergence of 212 feet has been obtained, and this might have been indefinitely extended had there been a greater depth of water at the place where the experiment took place—Long Island Sound during the latter part of 1914.

The new diving apparatus is constructed entirely of metal, is rigid and is three eyeholes, covered with made of such materials that it is strong strong glass, and protected by guards enough to resist the great pressures found Air is supplied by means of a flexible tube in the depths to which it can penetrate.

ticulated sections as well as give himself he had ever been was 90 feet, and on that motion through the water. The articu- occasion he had suffered from bleeding at lated portion consists of about 50 turning the nose and ears. joints, fitted with leather packing, which Divining Rod (di-vin'ing), a wand swells and has an increased effectiveness under increased water pressure. To preof action is constantly maintained. The diving case is not absolutely water-tight, nor is it desired that it should be so, as the slight leakage acts as a lubricant to the joints, and aids in their movements. The danger arising from the intake of water thus into the diving case is averted by the action of an ingenious pump appliance, which serves two purposes: that of pumping the water out and pumping the air in. The diver in this invention carries his pump with him and has air supplied to him at atmospheric pressure. At the back of the diving case is a recess and in it is installed a compact but powerful pump, which sucks from the feet of the suit all leakage and forces it at once outward. This pump is worked by com-pressed air, and the air after performing its mechanical part of driving the pump, is exhausted into the suit for the diver to is exhausted into the suit for the diver to breathe and then passes to the surface through the free space in an armored rubber tube, within which are led down to the diver the compressed air pipe for driving the pump, and the electrical connections for telephone and lamp. Thus the diving case receives a thorough ventilation, and it has been found that should the pump fail to work for a number of minutes fail to work for a number of minutes there would still be enough air remaining in the diving case and the tube space to supply the diver's needs for at least the supply the diver's needs for at least the length of time he is being hauled to the surface. During the experiment in Long Island Sound the pump was stopped for ten minutes, while the diver was at a depth of 100 feet. He suffered no inconvenience, and when the compressor again was started he was lowered to a depth of 212 feet. If such a condition as failure of the pump to work for ten minutes had arisen during a descent in the old elastic

num, and the diving case weighs complete feet, the time of his ascent must be not about 500 pounds. When in the air, the less than one hour and a half. In the man inclosed in it is incapable of imparting movement to it, but in the water, was hoisted to the surface in 87 seconds. which counterbalances the dead weight of He was totally unaffected by the abrupt the apparatus, he can easily move the ar- change in pressure, although the deepest

willow used especially for discovering mewent the pressure-force of the deep sea tallic deposits or water beneath the from jamming the joints, roller bearings earth's surface. It is described by G. are so arranged about them that freedom Agricola (De re metallica, 1546). It has also a modern interest, which is set forth by Prof. W. F. Barrett, F.R.S., the chief modern investigator. The use of the divining rod at the present day is almost wholly confined to water finding, and in the hands of certain persons it undoubtedly has produced results along this line that are remarkable, to say the least. The professional water-finder provides himself with a forked twig, of hazel, for instance, which twig, held in balanced equilibrium in his hands, moves with a sudden and often violent motion, giving to the onlooker the impression of life within the twig itself. This apparent vitality of the twig is the means whereby the water-finder is led to the place where he claims underground water to exist, though its presence at that particular spot was hith-erto wholly unsuspected. While failure is sometimes the outcome of the waterfinder's attempts, success as often, and, indeed, according to the testimony of Professor Barrett, more often crowns his efforts. Various explanations, scientific and other, of the phenomenon have been advanced. Professor Barrett ascribes it to 'motor-automatism' on the part of the manipulator of the divining rod, that is, a reflex action excited by some stimulus upon his mind, which may be either a subconscious suggestion or an actual impression. He asserts that the function of the forked twig in the hands of the water-finder may be to act as an indicator of some material or other mental disturbance within him. While a hazel or willow twig seems to be preferred by the professional water-finder, twigs from the beech, holly was started he was lowered to a depth of water-nneer, twigs from the beech, holly 212 feet. If such a condition as failure or any other tree are employed; someof the pump to work for ten minutes had important times even a piece of wire or watch spring arisen during a descent in the old elastic diving dress the result must necessarily by with apparently as good results. Divisibility (di-vis-i-bil'i-ti), that genhave been fatal. Nor is a delay necessary in hoisting the diver clad in the new by which their parts or component pardiving apparatus to the surface. Accordictles are capable of separation. Nuing to the British Admiralty regulations, merous examples of the division of should a diver go down to a depth of 204 matter to a degree almost exceeding be-

Divorce Division

spiner is said to have attained such a navy, a select number of ships in fleet marvelous ineness that one pound would extend 4770 miles. One grain of gold has been beaten out to a surface of 52 square inches, and leaves have been made introduction of gigantic heavily-armed square inches, and leaves have been made introduction of gigantic heavily-armed square inches, and leaves have been made introduction of gigantic heavily-armed square inches, and leaves have been made introduction of gigantic heavily-armed square inches, and leaves have been made into of thickness. From has been reduced to wonderfully thin sheets. Fine tissue paper is about the 1200th part of an inch in dismeter, inches the said of a debate. The said has some 4800th part of an inch in dismeter inches on 4800th part of an inch be acquiesced in by the minority, the has the followed been drawn out so fine as to be only the to go into the right lobby and the 'Noes' 50,000th part of an inch. The Division of Labor, ployed in great 500th part of an inch in diameter, and industries for the simplification of the that of the finest only the 1500th part. work to be done by each of the workmen. The silk fiber, as spun by the worm, is engaged in it. The separation of combut as spider's fiber is only the 30,000th operations not only results in a great part of an inch in diameter; insomuch saving of time, but also demands much that a single pound of this attenuated substance might be sufficient to encompass our globe. The trituration and levises ability of the part of the workman. The solutions of certain tion of the saving of time, but also demands much that a single pound of this attenuated less ability on the part of the workman. The solutions of certain tion of the saving of time, but also demands much that a single pound of this attenuated less ability on the part of the workman. The solutions of certain tion of the saving of time, but also demands much that a single pound of this attenuated in solutions of certain tion of the saving of time, and the e

lief may be easily instanced. Thus, glass vision is the converse of multiplication. test-plates for microscopes have been Division, in military matters, a porruled so fine as to have 225,000 spaces to the inch. Cotton yarn has been spun of two or more brigades, composed of so fine that one pound of it extended upwards of 1000 miles, and a Manchester marvelous fineness that one pound would by a general officer. In the spinner is said to have attained such a navy, a select number of ships in fleet marvelous fineness that one pound would or squadron of men-of-war. The term extend 4770 miles. One grain of gold has been practically abolished since the has been beaten out to a surface of 52 introduction of gigantic heavily-armed irrogated ships into the navy

forbidden in the New Testament, except for unchastity. The early laws of Rome permitted the husband to divorce his write for adultery and many other alleged accept the continues. The continues without restriction to the continues of the continues of the continues of the continues of the continues. The continues of the continues of Europe emerged from the ment for such asylums. This bill was ruins of the Roman Empire, they adopted vected by President Pierce. Besides the doctrine of the New Testament. Tracts for prisoners, etc., she published Marriage, in the Roman Catholic Church, several anonymous works: The Garland besidese being a civil contract, was considered a sacrament of the church, which is was unlawful to dissolve. The ecclesistic of the contract of the church which it was unlawful to dissolve. The ecclesistic of the contracted, was unlawful to dissolve. The ecclesistic of the contracted of the church which is a contracted, at the time the marriage was contracted, but afterwards studied law. At a critical result of the contracted of the contract of the contracted of the contract of the contracted of th

Diidda. See Jiddah.

Djokdjokarta (jok-yo-kar'ta), a Dutch residency in the island of Java, on the south coast, in 1824. with a capital of the same name. Its forests abound in teak. Its natural fertility ests about in team. Its natural tertifity is great, and rice, coffee and tobacco are extensively cultivated. It is ruled by a sultan who is dependent on the Dutch. Pop. 850,000. The town is large and regular, and the seat of the Dutch resident, which is a fort commanding both the palace and the town. Pop. 58,300.

Dmitrof (dme-trof), a town of Russia, in the government and 45 miles north of Moscow. It has manufactures of cloths, leather and porcelain.

Pop. 4550.

cataracts, which are now being removed by blasting of the rocks. Since 1838 there have been steamboats on the river,

(dō-ab; that is, Two Waters), a name in Hindustan applied

springs, bathing establishments. Pop. 5000.

(do-bel'). Sydney, an English poet and man of letters, born His first poem, The Roman, Dobell appeared in 1850, and was favorably received by the critics. Among his other works are Balder, Sonnets on the War, England in Time of War, etc. He died in 1874.

Döbeln (deu'beln), a town of the kingdom of Saxony, about 40 miles southeast of Leipzig, with a great trade in grain and manufactures of cloth, yarn, leather, lacquered wares, etc. Pop. (1905) 18,907.

Doberan. See Dobberan.

Dobereiner's Lamp (do'be-ri-ner), Dmitrovsk (dme-troisk'), a town in Doberether's Lamp a contrivance
Russia, in the govern- for producing an instantaneous light, in-Russia, in the government of Orel, on the highway from Moscow to Kiev. There are manufactures of leather and soap. Pop. 5259.

Dnieper (ne-per; Russian, Dnjepr, dnyepr; anciently borysthemetal instantly becomes red hot, and them the government of Smolensk, flows in the government of Smolensk, flows in the government of Smolensk, flows sets fire to the gas. The action depends upon the readiness with which spongy first southwest, then southeast, and again southwest to the Black Sea. It begins outhwest to the Black Sea. It begins of southwest the Black Sea. It begins of southwest the highway from the atmosphere in the pores of the platinum that chemical union, attended with evolution of light, takes and Alexandrovsk it forms a series of tory forming par. of the cataracts, which are now being removed by blasting of the rocks. Since 1838

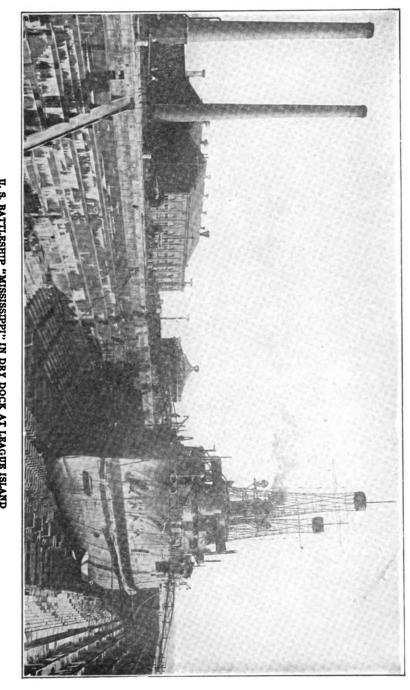
the Danube, which forms its boundary on the west and north, the Black Sea on there have been steamboats on the river, the west and north, the Black Sea on and the trade carried by it is considerable. the east, and on the south a line stretch-Dniester (nes'ter; Russian, Dnjestr; ing from Silistria to a point a few anciently tyras), a large miles south of Mangalia. There are river of Europe, which has its source in some fertile spots, but on the whole it the Carpathian Mountains, in Austrian is marshy and unhealthy. The popula-Galicia, enters Russia at Chotin, and emption is of various nationalities, Roumaties itself into the Black Sea, after a nians, Bulgars, Greeks, Turks and Jews. course of about 750 miles. Its navigation The inhabitants support themselves by is difficult on account of frequent shallows and rapids.

The Alego of Cooking C Dobson (dob'sun), HENRY AUSTIN, an English poet, born at Plymouth in 1840; entered the British civil service in Property in Pr Doab (dō-ab; that is, 122 and in Hindustan applied indiscriminately to any tract of country between two rivers. The tract between the Ganges and the Jumna is usually called the Doab; other similar tracts have their distinctive names, the Punjab being divided into five districts of this kind, Bari-Doab, Rechna Doab, Sinder Doah, etc.

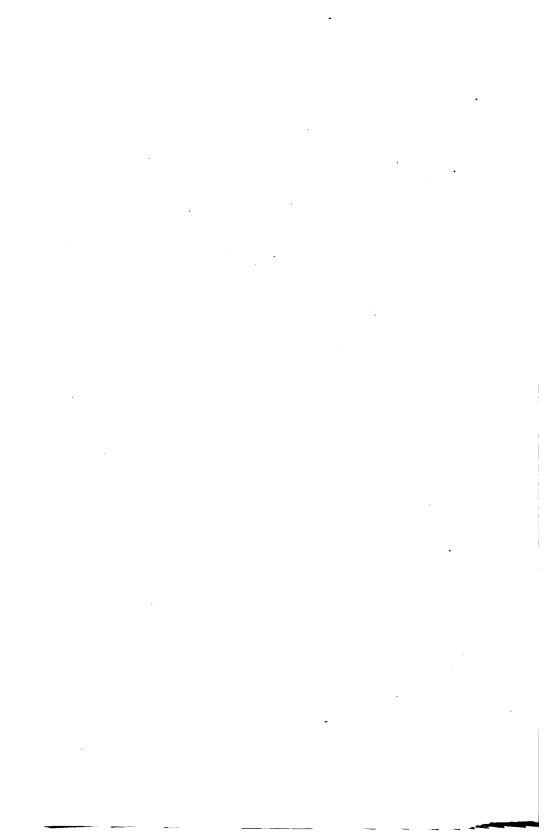
Doberran.

Outh in 1840; entered the published Vignetics in Rhyme, Proverbs in Porcelain, and other poems, chiefly graceful lyrics, often in French form. He also wrote lives of Fielding, Steele, Goldsmith, etc.

Docetæ (do-sō'tē; from Greek dokein, to seem or appear), the name given, in the earlier ages of the church, to those who denied the reality of the Dobberan (dod'e-ran), or Doberan, to those who denied the reality of the a German watering place human form of Christ, maintaining it in Mecklenburg-Schwerin, 2 or 3 miles to be merely a phantom or shadow. In from the Baltic. There are mineral the sense of regarding Christ's body as



U. S. BATTLESHIP "MISSISSIPPI" IN DRY DOCK AT LEAGUE ISLAND
The method of dry docking a large ship. After warping the vessel into the dock, the gates are closed and the water pumped out, allowing the vessel to settle on the supporting blocks beneath the keel. Additional supports are put out to the walls.



Docks Dock

ally as astringents.

Docket, Docquet (dok'et), in law, a term variously used, as for a

in this case constructed so as to keep in it and closes the graving-dock. The the tide, and thus preserve the water water is then pumped out, leaving the within the docks as nearly as possible at ship dry and supported by wooden blocks the uniform level of high water. They and props. With regard to floating-are called dry-docks, or graving-docks, docks, a common type of construction is when they are intended to admit vessels the iron floating-dock built in waterwhen they are intended to admit vessels the iron floating-dock built in waterto be examined and repaired, the gates in this case being such as to keep out either end. It is sunk to the required the tide while the shipwrights are en- depth by the admission of water into gaged on the vessel. There is another kind of dry-docks called floating-docks, vessel to be docked can float easily above which float on the surface of the water, its bottom, and is then raised by pumpand may be sunk sufficiently to allow of a vessel being floated into them, and propped up as in a dry-dock.

A kind of dry-dock, called the hydraulic out of the tanks round the sides. One of the chief uses of a wet-dock is to keep a uniform level of water, so that a hydraulic press. All these hydraulic the business of loading and unloading presses can be worked simultaneously by ships can be carried on without any a powerful steam engine, and their cominterruption and without danger of bined action has the effect of raising damage to the vessel from straining, low a series of transverse iron girders stretchtides, storms, etc. The first wet-docks ing from the columns on one side to constructed in England were those now those of the other. An iron pontoon is called the Commercial Docks, in London, first floated above these girders, and then which existed in a much less extensive sunk so as to rest on them, and the ship form as carly as 1800. In 1800, the tobal docked is floated above the portors. called the Commercial Docks, in London, first floated above these girders, and then which existed in a much less extensive sunk so as to rest on them, and the ship form so early as 1600. In 1800 the to be docked is floated above the pontoon West India Docks were constructed, and and supported by blocks resting only were followed by the East India Docks, upon the pontoon, so that the ship is Millwall Docks, London Docks, the St. in no way connected with the columns Katharine Docks and the Victoria on each side. The hydraulic presses Docks, affording, together with those at are then set to work, the girders with Tilbury, more than 600 acres of water the pontoon and ship are raised high accommodation, besides wharf and ware-enough for the water to be run out of the house grounds, where all kinds of appliances and machinery for the speedy and convenient transfer of goods and cargoes now be floated away clear of the dock, are in use. Some of the warehouses are

a heavenly and ethereal, instead of a extremely capacious, the tobacco warehuman one, docetism had its partisans house of the London Docks being itself even among the orthodox nearly 5 acres in extent. Next after the Dock (dok), a name applied to different plants of the genus which extend more than 6 miles along the north bank of the Mersey, and cover, (Polygonaceæ). These are large herbaceous plants, with stout roots, alternated and often entire leaves, and bearing of London. There are important docks panicles of small, greenish flowers. They also in the maritime cities of France are very troublesome as weeds, but the roots of some of them are used medicinally as astringents.

structions necessary.

Graving-docks are built of strong masummary of a larger writing; a small by swinging gates opening in the middle, piece of paper or parchment containing and when shut presenting a salient the heads of a writing; an alphabetical the heads of a writing; an alphabetical and when shut presenting a salient of cases in a court, or a catalogue bor from which the dock is entered, or of the names of the parties who have suits depending in a court.

Docks, are usually artificial enclosures a stem at both ends. When the caisson provided with gates to keep in or shut to admit of a vessel being floated into out the tide. They are called wet-docks the dock. The caisson being then placed when they are intended to receive vessels at the entrance and filled with water, for loading and unloading, the gates being it and closes the graving-dock. The sonry, and their entrance is closed either

plan a number of vessels can be floated (Doctor of Laws) at the Scotch univerfor overhauling and repairs in very shalsities. The popes and the archbishops of low water and at comparatively slight Canterbury exercise the right of conferexpense. Docks in the United States ring the degree of Doctor both in law are not of so much importance to com- and divinity. In the United States seats merce as in England, the rise and fall of learning, while usually conferred after of the tides being far less. Vessels can examination, it is common to give an be loaded or unloaded without difficulty honorary degree to persons of distinct the wharves of any of the Atlantic tion, without regard to their educational or Gulf ports without aid of docks. fitness.

There are, however, some very fine docks fitness.

Doctor's Commons, was a college for convenient handing of merchandise; the Doctors of the Civil Law in London, lyn and large dry-docks connected with and was at one time the seat of the court

Bockyards, with all sorts of the construction, repairs and equipment empowering the college to sent of ships of war. In England the royal erty and dissolve, and making the privice the process of the process common to all Portsmouth, Devonport and Pembroke, solicitors.

Desides the Deptford and Woolwich storeyards. There are also royal dockyards at Haulbowline in Cork Harbor, four of the Greek Fathers (Athansius, at the Cape of Good Hope, Gibraltar, Basil, Gregory Nazianzen and Chry-Malta, Halifax, Bermuda, Antigua, Sierra Leone, Trincomalee, Great). The Roman Catholic Church Great). The Roman Catholic Church and Chry-mantioned. Ambrose, and proctors of the Church, a name found for the Greek Fathers (Athansius, sostom) and three of the Latin Fathers (Jerome, Augustine ard Gregory the Great). The Roman Catholic Church at the Cape of Good Hope, Gibraitar, Basil, Gregory Nazianzen and Cary-Malta, Halifax, Bermuda, Antigua, sostom) and three of the Latin Fathers Jamaica, Sierra Leone, Trincomalee, (Jerome, Augustine and Gregory the Singapore, Hong-Kong, Esquimalt (Van-Great). The Roman Catholic Church couver's Island), Fernando Po, Sydney recognizes others 'Doctors,' including, beand Shanghai. The dockyards are unsides those already mentioned. Ambrose, der the direct control of the Admiralty, Hilary, Cyril, John Damascene, Chrysol-with a great deniral agreement of the Admiralty of the Cape of der the direct control of the Admiralty, Hilary, Cyril, John Damascene, Curysowith a rear-admiral as superintendent. ogus, Leo, Isidore, Peter Damian, AnIn the United States there are nine important navy yards, located at Brooklyn,
N. Y.; Boston, Mass.; Portsmouth, N.
H.; Philadelphia, Pa. Portsmouth, Va.;
Mare Island, Cal.; New London, Conn.;
Pensacola, Fla.; Washington, D. C. and
Port Orchard, Wash.

Doctor (dok'tur), a term literally sigbecame prominent after the restoration
nifying teacher. In the middle in 1815. They favored a constitutional
ages. from the twelfth century, it came monarchy with a balance of powers simi-

Bologna, and emperors and popes soon afterwards assumed the right of granting universities the power of conferring the degree in law. The taculties of theology degree in law. The taculties of theology and medicine were soon included, but for a long time the faculty of arts retained the older title of Magister, till the German universities substituted that of Doctor is in some parasites. The seeds germinate on the cases an honorary degree, and in other ground, but the young plant shows its cases (as in medicine and science) conparasities habit by speedily attaching it-ferred after examination. The title of self to some other plant, from which it D.C.L. (Doctor of Civil Law), for exderives all its nourishment. They are ample, at the University of Oxford and at Trinity College, Dublin, is an honorary degree, and so also are those of D. and other crops. There are fifty species D. (Doctor of Divinity) and LL.D. in two genera.

for instance the Atlantic docks at Brooklyn and large dry-docks connected with
the navy yards.

Dockyards,

establishments supplied court of admiralty, etc. The practitioners
with all sorts of naval
in these courts were called advocates
stores, materials and conveniences for and proctors. In 1857 an act was passed
the construction, repairs and equipment empowering the college to sell its propof ships of war. In England the royal
erty and dissolve, and making the privdockyards are at Chatham, Sheerness, ileges of the proctors common to all
Portsmouth, Devonport and Pembroke, solicitors.

recognizes others 'Doctors,' including, besides those already mentioned. Ambrose, Hilary, Cyril, John Damascene, Chrysologus, Leo, Isidore, Peter Damian. Anselm, Bernard, Thomas Aquinas, Bonaventura, Francis de Sales and Alphonsus de Liguori. The title is posthumous.

Doctrinaires (dok-tri-nārs), a section of French political political descriptions of French political descriptions of French political descriptions.

ages, from the twelfth century, it came monarchy with a balance of powers siminto use as a title of honor for men lar to that which then existed in Britain of great learning, such as Thomas Aqui- In the chambers they thus occupied a of great learning, such as Inomas Adul- in the chambers they thus occupied a nas (Doctor Angelicus), Duns Scotus place between radicals and ultra-royalists. (Doctor Subtilis), etc. It was first made They received the name of doctrinaires an academical title by the University of because they were looked upon more as theoretical constitution-makers than practical politicians, and the term is now used with a wider application to political theorists generally.

Doddridge (dod'rij). Philip, an Eng-covered with down instead of feathers, born in London in 1702. He was an bulky, hooked beak, and wings and tail earnest pastor, and the author of many so short as to be useless for flight. Its



Lesser Dodder (Cuscuta epithymum). hymns, devotional treatises, etc. The Rise and Progress of Religion in the Soul and The Family Expositor are among the best known works. He died in 1751.

Dodecahedron (do-dek-a-hē'dron), a regular solid contained under twelve equal and regular pentagons, or having twelve equal bases.

Dodecandria (do-de-kan'dri-a; Greek dodeka, twelve), in botiany, the twelfth class of Linnæus, comprising plants having twelve to eighteen stamens.

nounced to the priestesses in the rustling of the leaves on its oak tree and the murmuring of water which gushed forth from the earth.

Dodsley (dods'li), Robert, an English poet and dramatist, born ings was a tragedy, entitled Cleone, which had some success on the stage. A selection of Fables in prose, with an Essay.

in 1838; died in 1896. Her works, written under the name of Gail Hamilton, are piquant and humorous, includ-

ing Country Living and Country Thinking, Gala Days, Battle of the Books,
of Poems by Different Hands, six vols.

Dodgson (dodj'sun), Charles Lutwide, an English writer,
born in 1833; died in 1898. An English
clergyman, and mathematical lecturer in
Christ Church College from 1888 (1921)



Dodo, from painting in the Belvedere, Vienna extinction was due to its organization not being adapted to the new conditions, which colonization and cultivation introduced. Roul and The Family Expositor are Soul and The Family Expositor are among the best known works. He did in 1751.

Dodecagon (do-dek'a-gon) a figure enclosed by twelve equal Soul and Cultivation introduced.

Dodona (do-do'na), a celebrated logical transfer was one of the most ancient Greek oracles. It was a seat of Soul and Cultivation introduced.

Epirus, where was one of the most ancient Greek oracles. It was a seat of Soul and Cultivation introduced. nounced to the priestesses in the rustling

Dodge, MARY ABIGAIL, author, born in 1838; in Hamilton, Massachusetts, productions. He planned the Asset written under the 1896. Her works. reductions. He planned the Annual Register (commenced in 1758); the Collection of Old Plays, twelve vols. 12mo. which now chiefly sustains his

Doe, John, and Richard Roz, two fictitious personages of the English law whose names were formerly used in a suit of ejectment. This fictitious

clergyman, and mathematical lecturer in Christ Church College from 1855 to 1881, he wrote works remarkably alien to mathematical pursuits. Under the nom de plume of Lewis Carroll he was the author of the highly popular Alice in Wonderland, Through a Looking Glass, and other works in the same fantastic and original vein.

Dodo (dö'dō; Didus ineptus), an extinct genus of birds once abundant on the island of Mauritius, and assigned by naturalists to the order Columbæ or pigeons, though an extreme modification of the type. It was a massive, clumsy bird, larger than a swan, which the wolf shows of being domesti-

ing together and producing fertile young, and the equality in the period of gestation. But all these points are subject to exceptions and reservations which make the matter doubtful. It is generally agreed that no trace of the dog is to be found in a primitive state, the rising is now, owing to the precession dhole of India, and dingo of Australia of the equinoxes, different from what being believed to be wild descendants from domesticated ancestors. Several attempts to make a systematic classification of the varieties of dogs have been fore and twenty days after the heliacal rising and the dog-days are now counted from July tempts to make a systematic classification of the varieties of dogs have been fore and twenty days after the heliacal rising and the dog-days are now counted from July tempts to make a systematic classification of the varieties of dogs have been fore and twenty days after the heliacal rising and the dog-days are now counted from July tempts to make a systematic classification of the varieties of dogs have been fore and twenty days after the heliacal rising about forty days, the name applied by the name appli ing together and producing fertile young, for holding dogs. made, but without much success, it being rising. made, but without much success, it being difficult in many cases to determine what are to be regarded as types, and what as merely mongrels and cross-breeds. Colonel Hamilton Smith divides dogs into six groups, as follows:—(1) Wolfdogs, including the Newfoundland, Esquimaux, St. Benard, shepherd's dog, circ, (2) Watch-dogs and Cattle-dogs, including the German boar-hound, the Danish dog, the matin dog, etc.; (3) Greyhounds, the lurcher, Irish hound, etc.; (4) Hounds, the bloodhound. staghound, foxhound, setter, pointer, spaniel, cocker, poodle, etc.; (5) Cur-dogs, including the terrier and its allies; (6) Mastiffs, including the different kinds of mastiffs, bulldog, pug-dog, etc. (See the articles under these names.) Dogs have in the upper jaw six incisors, two strong curved canines and six molars on each side, the first three, which are small and cluding the terrier and its allies; (6)

Mastiffs, including the different kinds of
mastiffs, bulldog, pug-dog, etc. (See the
articles under these names.) Dogs have
in the upper jaw six incisors, two strong
curved canines and six molars on each
side, the first three, which are small and have cutting edges, being called false molars in the lower jaw are six incisors, two canines, and on each side seven molars. The forefeet have five toes molars. The forefeet have five toes the hind-feet four or five, the claws are strong, blunt and formed for digging, and are not retractile. The tail is generally long, and is curled upwards. The female has six to ten mammæ; she goes with young nine weeks, as a rule. The young are born blind, their eyes opening in ten to twelve days; their growth ceases at two years of age. The dog commonly lives about ten or twelve vears at the most, twenty. years at the most, twenty.

Dogbane (A pocynum androsæmifo-lium), an American plant found from Canada to Carolina, belonging to the nat. order Apocynacese (which see). The whole plant is milky; the root is intensely bitter and nauseous, and is employed in America instead of ipecacuanha. Another species (A. Cannabinum) yields a useful fiber, and is known as Canada or Indian hemp.

Dog-cabbage. See Dog's-cabbage.

cated, the fact of the two animals breed-back it is often furnished with a boot

rising.

Doge (dōj; from Latin dux, a leader, later a duke), formerly the title of the first magistrates in the Italian republics of Venice and Genoa. The first doge of Venice elected for life was Paolo Anafesto, in 697 and in Genoa. Simon Boccanera, in 1339. In the former city the dignity was always held for life; in the latter, in later times, only for two years. In both cities the office was abolished by the French in 1797.



Small-spotted Dogfish (Scyllium catalus).



Dutch Dogger.

Dog-cart, a sort of double-seated gig is hard, dry and unpalatable. The for four persons, those becommon or picked dogsish (Aconthics fore and those behind sitting back to vulgaris) is common in British and N.

Dogger (d o g' e r), a Dutch vessel equipped with two masts and

Dogger-bank, an extensive sand to fennel and from its bad smell. bank of the German Dog's-mercury Mercurialis Ocean, celebrated for its cod-fishery. It log's-mercury, nis, nat. order Eucommences about 36 miles east of Flamphorbiacese, an herb common in Britain. borough Head and extends E. N. E. to It has poisonous properties, and may be within 60 miles of Jutland, in some made to yield a fugitive blue dye. places attaining a breadth of about 60 Dog's-tail Grass (Cynosaus), a places attaining a breadth of about 60 Dog's-tail Grass (Cynosūrus), a miles, though it terminates merely in a point, where the shallowest water over Cynosūrus cristātus is a perennial found it is 9 fathoms.

Dog-grass. Same as Couch-grass.

common on damp ground, stones and trunks of trees. It was formerly supposed to be a specific for hydrophobia. Also known as ash-colored ground liver-

Also known as ash-colored p.

Nogra (dog'ma), an article of replacement of the Christian faith. The history of dogmas, as a branch of theology, square four-leaved flowers with proand the changes of the various Christian jecting centers systems of belief, showing what opinions placed were received by the various sects in contact with each different ages of Christianity, the other. It is the sources of the different creeds, by what characteristic decarguments they were attacked and supportant they were attacked and supportant the contact with each characteristic decarguments they were attacked and supportant the contact with each characteristic decarguments they were attacked and supportant the contact with each characteristic decarguments. attached to them in different ages, the Dog's-tooth Violet, Erythronium circumstances by which they were affected, and the mode in which the dogmas liliaceous plant grown in gardens, were combined into systems. Lectures called from the appearance of its white on this subject are common in the Ger-bulbs.

the branch of theology that deals with sembling a dog's teeth. them. (See Dogma.) The first attempt to furnish a complete and coherent sys
Dog-tooth Spar, a form of calcic carbonate or calctem of Christian dogmas was made by Origen in the third century.

Dog-parsley, same as fool's pars-

Dog's-bane. See Dogbane and Apocy-

American seas, and is sometimes used as Though it is slightly acrid and purgative, food. It is fierce and voracious.

Though it is slightly acrid and purgative, it is sometimes used as a pot-herb.

Dogger (d o g' e r), a Dutch vessel equipped with two masts and two masts and contains the position of t somewhat resembling a ketch. It is used (Anthemis Cotula), with acrid, emetic particularly in the German Ocean for properties. It derives its name of dog's the cod and herring fisheries.

Dog's-mercury, Mercurialis peren-nis, nat. order Eu-

wild all over Great Britain in pastures, lawns and parks. Its roots are long and wiry, and descending deep into the ground Dog-lichen, the popular name of a ensure the herbage against suffering plant, Peltidea canina, from drought. Its stem is from 1 to 2 feet high and its leaves are slightly hairy.

Dog-star, a name for Sirius, the star that gives their name to the dog-days (which see).

Dog's-tooth Ornament, an architectural



man universities.

Dogmatics (dog-mat'iks), a systematic arrangement of the jaw placed between the foreteeth and the articles of Christian faith (dogmas), or grinders. They are sharp pointed, rethe branch of theology that deals with sembling a dog's teeth.

spar found in Derbyshire and other part: of England, and named from a supposed resemblance to a dog's tooth.

Dog-rose, the Rosa canina, or wild brier, nat. order Rosaceæ. By the Dutch invention of forming standards much use is made of the dog-rose for budding purposes.

Dog's-bane See Dogbane and Anocy
Testimplance to a dog's tooth.

Dog-watch, a nautical term distinguishing two watches of two hours each (4 to 6 P.M. and 6 to 8 P.M.). All the other watches count four hours each, and without the introduction of the dog-watches. duction of the dog-watches, the same hours would always fall to be kept as watch by the same portion of the crew. Dog's-cabbage, Dog-cabbage, Thelyg-watch by the same portion of the crew. smooth, succulent herb, nat. order Chenopodiaceæ, found in the south of Europe. specifically applied in Britain to C. sanguinea. It is a common shrub in copses Prussian blue, hosiery, ironware, leather, and hedges in England the small, creamete. Pop. (1906) 11,166. white flowers are borne in dense, round clusters. The wood is used for skewers

Dole, Sanford Ballard, was born in the Hawaiian Islands, of American Islands, and for charcoal for gunpowder. The ican parentage, in 1844. He studied law, C. mascula is known as the cornel tree. practiced it in Honolulu, and became a Cornus florida and other American species member of the Hawaiian legislature and are also called dogwood. Its leaves turn judge of the supreme court. He was a read before folling and add much state of the supreme court. are also called dogwood. Its leaves turned before falling and add much to the autumn beauty of American woods. The 'poison dogwood' of America is Rhus venenata, one of the sumachs. See Cornel. Cornaceæ.

Doit, an ancient Scottish coin, of which eight or twelve were equal to a penny sterling. In the Netherlands and Lower Germany there was a coin of sim-labradorite with some titaniferous mag-

penny sterling. In the Netherlands and Lower Germany there was a coin of similar name and value.

Dolabra (do-la'bra), the Latin name for a celt. See Celts.

Dolbear (do'l'bar), Amos Emerson, etc County, near the foot of Cader Idris. Scientist, was born at North Market (do'l'bar), and strength of physics

Dolchocephalic (dol-lake-seffalik), long-he a de d; a strength of the seffalik).

character of sweetness and melancholy. lignosus is one of the most common kid-Among his chief productions are St. ney beans in India. D. twberous of Cecilia at the Organ and Herodias with Martinique has a fleshy, tuberous root the Head of John the Baptist, both in which is an article of food. the Dresden Gallery, and St. Andrew in Dolichosaurus (dol-i-ko-sa'rus; 'long lizard'), an extinct Dolcinites (dol'chē-nīts), a Christian snake-like reptile found in the chalk, sect of Piedmont, so named whose remains indicate a creature of from their leader Dolcino. They arose aquatic habits, from 2 to 3 feet in in 1304 as a protest against the Papacy, length.

member of the Hawahan legislature and judge of the supreme court. He was a leader in the reform movement of 1887 and on the formation of a republic in 1893 was made its president. When Hawahi was annexed to the United States he continued in power as governor of the islands and of the Territory. Doiley (doi'll), a small ornamental or of the islands, and of the Territory napkin used at table to set of Hawaii in 1900. He has been an glasses on at dessert.

United States district judge in the terri-

Dolerite (dol'e-rit), a variety of trap-rock composed of augite and

wich, Connecticut, in 1837; died in 1910. nels and cloths. Pop. (1911) 2160. He was professor at Kentucky University, 1867-74, and afterward of physics and astronomy in Tuft's College. He made inventions in telegraphy and wrote skulls in which the diameter from side Art of Projecting, The Speaking Telephone, Matter, Ether and Motion, Natural Philosophy, etc.

Dolce (dol'chā), or Dolcemente, in music, an instruction to the performer that the music is to be executed softly and sweetly.

Dolci (dol'chā), CARLO, a celebrated painter of the Florentine school, edible legumes. D. sesquipedālis, which is also grown in the south of France, there in 1636. His works, principally Dolci (dolche), Carlo, a celebrated Africa and America, and an produce painter of the Florentine school, edible legumes. D. sesquipedālis, which was born at Florence in 1616, and died is also grown in the south of France, there in 1686. His works, principally has pods a foot in length and containing heads of madonnas, saints, etc., have a seven to ten kidney-shaped seeds. D. character of sweetness and melancholy. lignosus is one of the most common kidney-shaped seeds.

in 1304 as a protest against the Papacy, but were suppressed by the troops of the Inquisition in 1307.

Doldrums (dol'drumz), among seamen, the parts of the ocean mear the equator that abound in weight and value, though differing someculms, squalls and light, baffling winds; otherwise known as the horse-latitudes.

Dôle (dôl), a town in France, Jura, 26 miles southeast of Dijon. It is of Roman origin, was long the capital of Franche Comté, and has some interesting antiquities. The manufactures are length.

Dollar (dol'ar), a silver or gold coin of the United States, of the value of 100 cents. The same name is also given to coins of the same general weight and value, though differing somewhat in different countries, current in Mexico, a great part of South America, Singapore, the Philippine Islands, etc. The name is from the Dutch (also Danish and Swedish) daler, from Ger. theler, so named from Ger. thal, a dale, because first coined in Joachim's Thel, in ing antiquities. The manufactures are

this country to signify a dollar, is suppared to date from the time of the pillar to a kind of loose jacket worn by ladies.

in 1277 and 1530, overwhelming thirtyfour large villages and numerous hamlets.

Döllinger (deul'ing-èr), Johann Josgerman theologian and leader of the Old
Catholic party, was born at Bamberg,
in Bavaria, in 1799. In 1822 he entered the church, and soon after published The Doctrine of the Eucharies
during the First Three Centuries, a caus Iles de Lipsri, etc., (1783); Sur
work which won him the position of the Tremblement de Terre de la Calalecturer on church history at the University of Munich. In later years he
took an active part in the political struggles of the time as representative of
the university in the Bavarian parliament, and as delegate at the Diet of
Frankfort voted for the total separation
of church and state. In 1861 he deliviered a course of lectures, in which he
papacy. But it was first at the CECumenical Council of 1869-70 that Dr. Döllinger became famous over Europe by
his opposition to the doctrine of papal
infallibility. In consequence of his opposition to the vatican decrees he was
excommunicated in 1871 by the Archbishop of Munich. A few months later
of Munich, and in 1873 rector of the

Dolomite Mountains, Dolomite

CRATET DE, After some years of military
readiges, born in 1750 at Dolomite
readigts, born in 1750 at Dolomite
readigts, born in 1750 at Dolomite researches. He accompanied the French
readigte. After some years of military
researches. He accompanied the French
readigts, born in 1750 at Dolomite researches. He accompanied the French
leady to geological
researches. He accompanied the French
cesarches. He accompanied the French
researches. He bishop of Munich. A few months later pearly luster.

he was elected rector of the University of Munich, and in 1873 rector of the Dolomite Mountains, Alps, a Royal Academy of Science. Among his group of European mountains belonging numerous works we may notice Origins partly to Tyrol, partly to North Italy, of Christianity, A Sketch of Luther, etc. He died in 1890.

Christianity and the Church, etc. He west. They are named from the preva-

his attention to the improvement of re-

posed to date from the time of the pillar to a kind of loose jacket worn by ladies. It is was known as the Piece of Eight' (meaning 8 reals), the curve being a partial representation of the figure 8. The two vertical strokes are thought to represent the Pillars of the thercules, which were stamped upon the coin itself.

Dollart (dollert), The, a gulf of the circle or chamber consisting of huge stones set up often in prehistoric times of the Ems, between the Dutch province of Groningen and Hanover. It was originally dry land, and was formed by irruptions of the sea, which took place in 1277 and 1530, overwhelming thirty-four large villages and numerous hamelets.

Dollmen (dol'men), a name sometimes upon times upon times upon to rombech, sometimes in a distinctive sense. Sir John Lubbock maintains that circle or chamber consisting of huge stones set up often in prehistoric times for religious or sepulchral purposes or as memorials of some important event.

Dollmen (dol'men), a name sometimes upon times upon to a stone times used as equivalent to cromlech, sometimes in a distinctive sense. Sir John Lubbock maintains that circle or chamber consisting of huge stones set up often in prehistoric times for religious or sepulchral purposes or as memorials of some important event.

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Dollmen (dol'men), a name sometimes in a distinctive sense. Sir John Lubbock maintains that cromlech should be applied to a stone circle, dolmen to a stone chamber, or memorial so formed by a stone set up often in prehistoric times for religious or sepulchral purposes or as memorials of some important event.

Gental Tollar and 1500 at 11 and 150 at 12 and 150 at 12

west. They are named from the preva-Dollond (dol'ond), John, an english lence of the mineral dolomite, and present descent, born in 1708; died in 1761. He devoted the most interesting and picturesque scenery, the neeks being and leave a real scenery. the peaks being endlessly varied in form. his attention to the improvement of refracting telescopes, and succeeded in constructing object-glasses in which the (10,972 ft.); other peaks are the Sorapiss, refrangibility of the rays of light was the Cimon della Pala, the Langkofel, etc. corrected. Subsequent members of the family have distinguished themselves in optics, astronomy, etc.

Dolman (dol'man), a long robe worn by the Turks as an upper Dolphins are cosmopolite animals, ingarment. It is open in front, and has habiting every sea from the equator to The highest summit is the Marmolata

in both jaws; its flesh is coarse, rank and ing was made a Polish senator by Alexiasgreeable, but is used by the Laplanders as food. It lives on fish, mollusca, etc., and often may be seen in numbers a building or part of it, and forming a building or part of it, and forming a



Common Dolphin (Delphinus Delphis).

round shoals of herring. The animal has to come to the surface at short intervals to breathe. The blowhole is of a semilunar form, with a kind of valvular apparatus, and opens on the vertex, nearly over the eyes. The structure of the ear renders the sense of hearing very acute, and the animal is observed to be attracted by regular or harmonious sounds. One or two young are produced by the female, who suckles and watches by the female, who suckles and watches them with great care and anxiety, long after they have acquired considerable size. Compactness and strength are the characteristics of the genus.—The name is also commonly but improperly given to a fish, Coryphana hippūris, a member of the mackerel family, the beauty of whose colors when dying has been much celebrated by poets. They abound within the tronger are about 4 or 5 feet long. the tropics, are about 4 or 5 feet long, very swift in swimming, and are used as food, though said sometimes to be poison-OHR.

Dom, a Portuguese title corresponding with the Spanish Don.

the poles; they are gregarious, and swim in Italy in 1796-1801. He took a diswith extraordinary velocity. The comtinguished part in the invasion of Russia mon dolphin (D. delphie) measures from in 1812, and also in the campaign of 6 to 10 feet in length, has a long, sharp 1813. After Napoleon's abdication he snout with numerous nearly conical teeth returned to Poland and the year follow-

common feature in Byzantine and also in Renaissance architecture. Cupola is also used as a synonym, or is applied to the interior, dome being applied to the exterior. (See Cupola.) Most modern domes are semielliptical in vertical section, and are constructed of timber; but the ancient domes were nearly hemi-spherical and constructed of stone. Of domes the finest, without any comparison, ancient or modern, is that of the Rotunda or Pantheon at Rome (1421/2 feet internal diameter and 143 feet internal height),



Section of Dome of San Pietro in Montorio. Rome at end of Fifteenth Century.

Domain (do-mān), same as Demesno (which see); also applied especially to crown lands or government St. Sophia at Constantinople (104 × 201 lands.—Right of eminent domain, the dominion of the sovereign power over all the property within the state, by which it is entitled to appropriate any part necessary to the public good, compensation being given.

Dombrowski (dom-brov'skē). Jan holds (30 × 173 feet), and the church of St. Geneviève at Paris Dombrowski (dom-brov'skē). Jan holds (30 × 173 feet), and the church of St. Geneviève at Paris Course, and at the head of a Polish legion rendered signal services an Italian painter of great eminence, of

of a Polish legion rendered signal services an Italian painter of great eminence, of

he Lombard school, born at Bologna in As a general rule the old domicile, and 581 or 1582. He studied under Annibal especially the domicile of origin, con-arracci, and afterwards went to Rome, tinues till a new one has been acquired.

Jomesday Book (or Doomsday), a book containing a urvey of all the lands in England, comiled in the reign and by the order of villiam the Conqueror. The survey was tade by commissioners, who collected the information in each district from a worn jury consisting of sheriffs, lords of worn jury consisting of sheriffs, lords of Domingo (do-men'go), SAN, capital nanors, presbyters, bailiffs, villeins—all Domingo of the Dominican Republic roprietorship of the land in each distinct, the state of culture, and in some modious port. It is the oldest European ases the number of tenants, villeins, etc., were the matters chiefly recorded. The survey was completed within a ear. Northumberland, Durham, Cumerland and Westmoreland were not included in the survey, probably for the eason that William's authority was not in Old Castile. He early distinguished hen (1086) settled in those parts. The himself by his zeal for the reform of homesday Book consists of two volumes, canonical life and by his success as ne folio and one quarto. It has been a missionary among the Mohammedans. Wice republished, the last time (1861-b), in perfect facsimiles of the original the Abigenses in the south of France, homestic Animals such as are he organized a mission of preachers

dermanent domicile may be constituted by birth, by choice, or by operation of the aw. To constitute a domicile by choice to the actual residence and the intention on a Sunday (Sp. dominica), a member to make it the permanent home are required. It is a legal principle that the Islands between Martinique and Guadewife takes the domicile of her husband. loupe. It is about 29 miles in length,

rarracci, and atterwards went to Rome, there he became painter to Pope Gregory V. Among his best works are the formunion of St. Jerome in the Vatican scale, and which assumes the character suseum. the History of Apollo, the of a keynote itself when there is a fartyrdom of St. Agnes and the riumph of David. He died at Naples Thus, G is the dominant of the scale of C, and D the dominant of the scale of C. C, and D the dominant of the scale of G.—Dominant chord, in music, that which is formed by grouping three tones, rising gradually by intervals of a third from the dominant or fifth tone of the scale. It occurs almost invariably immediately before the tonic chord which closes the perfect cadence.

the classes, in short, interested in the (or San Domingo) in the island of latter. The extent, tenure, value and Hayti. It lies on the southeast coast at roprietorship of the land in each distinct the mouth of the Ozama, and has a com-

wice republished, the last time (1861-fits attention having been directed to o), in perfect facsimiles of the original the Albigenses in the south of France, Domestic Animals, such as are he organized a mission of preachers ame state; as the dog, cat, ox, sheep, wine, horse, ass, elephant, camel, llama, eindeer, etc.

Domfront (don-fron), a town of France, dep. Orne, pictursquely situated on a steep rock above he Varenne, 35 miles w. N. w. of Alenon. Pop. (1906) 2215.

Domicile (dom'i-sil), in law, the place where a person has a home restablished residence. Domicile is held by one of the order. Dominic Master of the Sacred Palace or court preacher to the vatican, an office which is still restablished residence. Domicile is held by one of the order. Dominic died ften an important question in determining the efficacy of legal citations, the ralidity of marriage, the right of succession to property, etc. For some purposes what is called a temporary domicile is unfficient, but in questions of marriage Albigenses; but his claim is denied, on the property of the prominic were appointed inquisitors in 1198.

Bermanent comicile may be constituted Dominica (dom-ine'ka), a British

north to south, and 12 miles in breadth east to west area, 291 square miles. It but in Asia, Africa and America. is rugged and mountainous, but it contains many fertile valleys and is well watered. The shores are but little indented, and are entirely without harbors; but on the west side there are several good anchorages and bays. The principal exports consist of sugar, molasses, cocoa and lime-juice. The imports and exports amount each to about \$250,000 annually. Dominica was ceded by France to Great Britain in 1763. Roseau is the capital. Pop. 28,894, largely negroes and including about 300 descendants of the aboriginal Caribs.

Dominical Letter (do-min'i-kal), in chron ology, properly called Sunday letter, one of the seven letters of the alphabet, A B C D E F G, used in almanacs, ephemerides, etc., to mark the first seven days of the year and all consecutive sets of seven days to the end of the year, so that the letter for Sunday will always be the same. If the number of days in the year were divisible by seven without remainder, then divisible by seven without remainder, then the year would constantly begin with the same day of the week; but as it is the year begins and ends on the same day, and therefore the next year will begin on the day following, and on leap years two days following, so that the same series is not repeated till after four

times seven, or twenty-eight years.

Dominican Republic (do-min'i-kan), or SAN Domingo, a republic occupying the eastern portion of the island of Hayti; area, about 18,000 square miles. It is area, about 10,000 square lines. It is fertile and exports mahogany, sugar, to-bacco, cocoa, etc., but its resources are as yet but little developed. It formerly as yet but fittle developed. It formerly belonged to Spain, and is the oldest co-lonial settlement in America. Its inhab-itants are chiefly negroes and mulattoes, nants are chern negroes and mulattoes, and the government is in the hands of the negroes. Capital, San Domingo. Pop. estimated at 500,000. See Hayti.

Dominicans (do-min'i-kans), called also predicants, or

preaching friars (pradicatores), derived their name from their founder, St. Dominium (dom'i-no), formerly a dress they were governed by the rule of St. Augustine, perpetual silence, poverty and the principal object of their institution head from the weather. At present it was to preach against heretics. Their distinctive dress consists of a white habit and scapular with a large black mantle, and hence they have been commonly hood. The name is also given to a half-known as Black Friars. They were mask formerly worn on the face by almost from the first a mendicant order.

They spread rapidly not only in Europe. England there were fifty-eight Dominican houses at the dissolution of the monas-teries, and the Blackfriars locality in London took its name from one of their establishments. They produced some famous scholars, such as Albertus Magnus and Thomas Aquinas, and became formidable as managers of the Inquisition, which was committed exclusively to



Dominican or Black Friar.

them in Spain, Portugal and Italy. In 1425 they obtained permission to receive donations, and ceased to belong to the mendicant orders, paying more attention to polemics and theological science. With the Franciscans, their great rivals, they divided the honor of ruling in church and that still the interest the state of the science. Jesuits gradually superseded them in the schools and courts. They obtained new importance in 1620 by being appointed to the censorship of books for the church. Among notable Dominicans we may mention Savonarola, Las Casas and Lacordaire. There are establishments of the Dominicans in England, Ireland and the United States.

Dominium (do-min'i-um), a term in the Roman law used to signify full ownership of a thing.

Dominoes, a game played with small, of Novara, in the center of a plain on flat, rectangular pieces of the great Simplon road. Pop. about ivory, about twice as long as they are 3000. ivory, about twice as long as they are broad. They are marked with spots varying in number. When one player varying in number. When one player leads by laying down a domino, the next must follow by placing alongside of it another which has the same number of spots on one of its sides. Thus, if the first player lays down 6-4, the second may reply with 4-2, or 6-3, etc.; in the former case he must turn in the 4, placing its beside the 4 of the first domino second ing it beside the 4 of the first domino, so that the numbers remaining out will be 6-2; in the latter case he must turn in 6-2; in the latter case he must turn in the 6 to the 6 in like manner, leaving 4-3, to which his opponent must now respond. The player who cannot follow suit loses his turn, and the object of the game is to get rid of all the dominoes in hand, or to hold fewer spots than your opponent when the game is exhausted by neither being able to play.

Domitian

(do-mish'e-an) or in full TITUS FLAVIUS DOMITIANUS AUGUSTUS. Roman emperor, son

ANUS AUGUSTUS, Roman emperor, son of Vespasian, and brother of Titus, was born in A.D. 51, and in 81 succeeded to the throne. At first he ruled with a show of moderation and justice, but soon returned to the cruelty and excesses for which his youth had been notorious. He was as vain as he was cruel, and after



Domitian.

Introduced and became naturalized in some parts of Italy, and was particularly applied to the priests.

Catti, carried a multitude of his slaves, dressed like Germans, in triumph to the city. He executed great numbers of the chief citizens, and assumed the titles of London University and at Trinity College, Cambridge, where he was elected stringent laws against high treason, which enabled almost anything to be construed into this crime. At length a conspiracy, in which his wife Domitia The New Cratylus, which was among took part, was formed against him, and he was assassinated in his bedroom, in LD. 96.

Domremy la Pucelle (don-ré-mi la pü-sāl), the birthplace of Joan of Arc, a small French village, department of the Vosges, seven miles N. of Neufchâteau. The house is still shown there in which the heroine was born, and in the neighborhood is the monument erected to her memory.

Don, or DONE (do'na; ancient Tanais), a river of Russia, which issues from Lake Ivan-Ozero, in the government of Tula; and flows s. E. to within 37 miles of the Volga, where it turns abruptly s. w. for 236 miles, and falls into the Sea of Azof; whole course nearly 1300 miles. The chief tributaries are: right bank, the Donetz and Voronej; left, the Khoper and Manitsch. Although not admitting vessels of much draught, the Don carries a large traffic, especially during the spring floods, and a canal connects it with the Volga system of navigation. It has also very extensive and productive fisheries.

sive and productive fisheries.

Don (don), a river of Scotland, County
Aberdeen, rising near the Banffshire border. It flows tortuously E
through the whole breadth of Aberdeenshire, and falls into the North Sea a
little to the north of Aberdeen, after a
total course of 82 miles. Its salmon
fisheries are of considerable value.—
Also, a river of Yorkshire, England,
which rises near Cheshire, and joins the
Ouse after a course of about 70 miles.
It is navigable for small craft to Shef-It is navigable for small craft to Sheffield.

Don (Latin, dominus, a lord or master), a Spanish title of honor, originally given only to the highest nobility, afterwards to all the nobles, and finally used indiscriminately as a title of courtesy. It corresponds with the Portuguese Dom. During the Spanish occupation it was introduced and became naturalized in some parts of Italy, and was perticularly

A.D. 96.

Domo (dō'mō), or Domo D'Ossola, a 1844 appeared the first edition of Vertown of North Italy, province ronienus, a work on Latin similar in

Donatello Donegal

scope to the Cratylus. Among his other which is a basin of clear sparkling water writings are grammars of the Hebrew, that is asserted to be the true source of Greek and Latin languages. He died in the Danube. Pop. 5000.

1861.

Donatello (don-\(\frac{1}{2}\) di Betto Bardi), one of the revivers of the art of sculpture was formerly a free imperial town, and in Italy, was born at Florence between 1382 and 1387. His first great works tavus Adolphus in the Thirty Years' war, in marble were statues of St. Peter and 1632. Pop. 5,000.

St. Mark, in the church of St. Michael in his native town, in an outside niche of which is also his famous statue of St. George. Along with his friend Brunelleschi he made a journey to Rome to study its art treasures. On his return he executed for his patrons, Cosmo and Lorenzo de' Medici, a marble monument to their father and mother, which is of high merit. Statues of St. John, of Judith. David and St. Continual Conti

the fourth century, so named from their island of Ceylon. It was the site during founder Donatus, Bishop of Casa Nigra part of the seventh century of the Singhin Numidia, who taught that though alese capital, numerous remains of which Christ was of the same substance with are still to be found. the Father, yet that he was less than the Father; that the Catholic Church was not infallible, but had erred in his time of Ulster, bounded N. and w. by the and become practically extinct, and that Atlantic Ocean; area, 1876 sq. miles, of he was to be the restorer of it. All join—which about a fifth is under crops. The ing the sect required to be rebaptized, coast is indented with numerous bays. ing the sect required to be rebaptized, invalid.

Donatus (do-nā'tus), ÆLIUS, a Romentator, born in A.D. 333. He was the a common term for grammar or primer potatoes and flax. of instruction.

Donau (don'ou). See Danube.

ument to their father and mother, which and a trade in cattle, grain, etc. Pop. is of high merit. Statues of St. John, 16,565.

of Judith, David and St. Cecilia are among his leading works. He died at borough and market town Florence in 1466.

Donatio mortis causa, is a gift of on the river Don, well tuilt, with straight, personal broad streets. The parish church, with property made in prospect of the death of its tower 170 feet high, Christ Church, the doper and consumpted by that the town hell and the thester are among the donor and consummated by that the town hall and the theater are among the donor and consummated by that the town hall and the theater are among event.

Donati's Comet (dō-na'ti), so called from the Italian It has been long celebrated for its annual astronomer Donati, who first observed it in June, 1858. Next to the comet of 1811 it is the most brilliant that appeared during the century. It was nearest the earth on October 10, 1858.

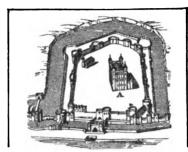
Donatists (don'a-tists), one of a body of African schismatics of the fourth century, so named from their island of Cevlon. It was the site during the control of the fourth century, so named from their island of Cevlon. It was the site during

coast is indented with numerous bays. baptism by the impure church being the most remarkable being Lough Swilly. It is the most mountainous county in (do-nā'tus), ÆLIUS, a Ro-Ireland, but has some fine fertile valleys, man grammarian and com- Mount Errigal, the loftiest summit, is orn in A.D. 333. He was the about 2460 feet high. The streams and mentator, born in A.D. 353. He was the about 2400 feet high. The streams and preceptor of St. Jerome, wrote notes on lakes are small, but numerous and Virgil and Terence, and a grammar of abounding in fish. The climate is moist, the Latin language so universally used the subsoil chiefly granite, mica slate and in the middle ages that 'Donat' became limestone, and the principal crops outs, Spade husbandry is much employed, and agriculture generally is in a very backward state. The manufactures are limited, and consist Donaueschingen (dō'nou-esh'ing-en), chiefly of linen cloth, woolen stockings a town of Baden, and worked muslin. The fisheries are Germany, 29 miles east by south of extensive and valuable, and form the Freiburg. It contains the Prince of chief employment of the inhabitants of Fürstenberg's palace, in the garden of the coast and islands. Grain, butter and eggs are exported. The minerals include marble, lead, copper, etc., but are not wrought to advantage. Pop. 173,722.—Donegal, the county town, is assall seaport on the bay of the same name, at the mouth of the river Esk.

Donetz (do'nets), a Russian river which rises in the government of Kursk, flows south and east, forming the boundary of several governments, and, after a course of 400 miles, joins the Don.

appeared his Anna Bolena, which first, Le Festin de Pierre, by Molière, and along with Lucrezia Borgia and Lucia di Lammermoor—the latter his masterpiece
—acquired for him an European frame.
In 1835 Donizetti was appointed professor of counterpoint at the Royal College of Naples, but removed in 1840 to Paris, bringing with him three new operas, bringing with him three new operas, Les Martyre, La Favorita and La Fille du Régiment, of which the last two are among his most popular productions. Of his other operas none except Linda di Chamouni (1842) and Don Pasquale stationed on the deck of a ship to work (1843) achieved any special triumph, though he wrote in all sixty-four operas. He died in 1848.

Donjon of a castle, situated in the innermost court or bailey, which the garrison could make the last line of defense. Its lower part was commonly used his a prison. See Castla.



on Aurss, nows south and east, forming the boundary of several governments, and, after a course of 400 miles, joins the Don.

Dongola (don'go-la), a district of Upper Nubia, extending on both sides of the Nile from about lat. 18° to lat. 20° N. It formerly belonged to Egypt and was the seat of a pasha. but after the evacuation of all the country south of Wady Halfa in 1886, by the Egyptian government, it was left in an unsettled state. Its chief products are dates, cotton, indigo and maize. The population is a mixture of Arabs and indigenous Nubians. Its chief town is Dongola or El Ordeh, on the left bank of the Nile. Pop. 10,000.

Doni (dō'ni), a clumsy kind of boat used on the coast of Coromandel and Ceylon; sometimes decked and octasionally furnished with an outrigger. The donis are about 70 feet long, 20 feet broad, and 12 feet deep, have one mast and a lugsail and are navigated in fine weather only.

Donizetti (don-e-zet'tē, or do-nid-zet'te), Gaetano, an Italian composer, born in 1708, at Bergamo. When the studied music at Bologna under the distinguished Abbe Mattei. His first opera. Enrico di Borgogna, was represented at Venice in 1818. In 1822 his Zoraïde di Granata gained him the honor of being crowned on the Capitol. In 1830 lador de Sevilla, by Tellez, Don Juan ou appeared his Anna Bolena, which first, along the former are Burof being crowned on the Capitol. In 1830 lador de Sevilla, by Tellez, Don Juan ou appeared his Anna Bolena, which first, along the former are Burof being crowned on the Capitol. In 1830 lador de Sevilla, by Tellez, Don Juan ou appeared his Anna Bolena, which first, along the former are Burof being crowned on the Capitol. In 1830 lador de Sevilla, by Tellez, Don Juan ou appeared his Anna Bolena, which first, along the former are Burof being crowned on the Capitol. In 1830 lador de Sevilla, by Tellez, Don Juan ou appeared his Anna Bolena, which first, along the former are Burof being crowned on the Capitol. In 1830 lador de Sevilla, by Tellez, Don Juan ou appeared his Anna Bolena,

office by a clandestine marriage with his patron's niece. The young couple were in consequence reduced to great distress, till his father-in-law relented so far as to give his daughter a moderate portion. By the desire of King James Donne took orders, and, settling in London, was made preacher of Lincoln's Inn. In 1621 he was appointed Dean of St. Paul's. He was chosen prolocutor to the convocation in 1623-24. He died in 1631, and was interred in St. Paul's. The was chosen prolocutor to the convocation in 1623-24. He died in 1631, and was interred in St. Paul's. reflections. It may often be heard dromas a poet, and the precursor of Cowley, ing through the air towards the close Donne may be deemed the founder of what Dr. Johnson calls the metaphysical class of poets. Abounding in thought, this school generally neglected versification, and that of Dr. Donne was peculiarly harsh and unmusical. His style is quaint and pedantic; but he displays group and falls, after a course of about sound learning, deep thinking and originality of manner. Besides the works for mentioned, he wrote Letters, seemons, Essays on Divinity and other pieces.

Dora D'Istria. See Demster. (döm'ster), a name formerly given in Scotland to the public executioner. See Demster.

Doon (dön), a river in Ayrabire, Scotland to the public executioner. See Demster.

Dora (don), a river in Ayrabire, Scotland to the fill of class into the Firth of Clyde.

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Dora (don), a river in Ayrabire, Scotland to the public executioner.

Dora (don), a river in

Donnelly (don'el-i), IGNATIUS, author; born at Philadelphia, Pennsylvania, in 1831. For many years he resided in Minnesota, several times seve wrote Atlantis, Ragnarok and other which conn works, and claimed to have found a cryptogram in Shakespere's plays which, in substance, transferred their authorship to Francis Bacon. He died in 1901.

Donnybrook (don'i-brök), a village youth, and of Ireland, now mostly books, amin the parliamentary beyongh of Dublin.

works, and claimed to have found a cryptogram in Shakespere's plays which, in substance, transferred their authorship to Francis Bacon. He died in 1901.

Donnybrook (don'i-brök), a village of Ireland, now mostly in the parliamentary borough of Dublin. Its famous fair, which seldom passed off without riot and bloodshed, was abolished in 1855.

Donora (dō-nō'ra), a borough in Washington Co., Pennsylvania. Has wire, nail and fence mills, blast Century (Mrs. Montague), London in furnaces, etc. Pop. 8174.

Don Quixote (Sp. pron. kē-hō'tā), Dorcas Society (dor'kas, from the romance by Cervantes. (See Cervantes.)

romance by Cervantes. (See Cervantes.) in Acts, ix), an association generally The name of the hero, Don Quixote, composed of ladies for supplying clothes is used as a synonym for foolish knight-errantry or extravagant generosity.

Doo (dö), George Thomas, an English engraver, born in 1800; died in 1886. He became early known as an Torchester (dor'chester)

engraver, born in 1800; died in the very poor.

1886. He became early known as an excellent artist, and was appointed historical engraver to William IV, and subsequently to Queen Victoria. He was s. w. of London. There are large cavalry elected an associate of the Royal Academy in 1856, and next year academician.

Doom Palm (dom). See Down Palm.

The trade consists chiefly in agricultural produce. Dorchester was an important Roman station (Durnovaria), and many interesting Roman re-Doomsday Book (döms'day). See mains are still to be found in the vicinity.

Domesday Book It was a parliamentary borough till

385, when it was merged in the county. op. (1911) 9842.

ordogne (dor'don), a department of France, which includes the greater part of the ancient province

rator of books. His illustrations of admiral he performed many services for Rabelais, of Perrault's Tales, Sue's Charles, clearing the seas of Moorish Wandering Jew, Dante's Diving Compirates and assisting the emperor in his nedia, and Cervantes' Don Quizote disexpeditions to Tunis and Algiers. In played great fertility of invention, and 1547 his authority was threatened by he fine fantasy of his landscapes and the conspiracy of Fleschi, and he narche dramatic effectiveness of his groups rowly escaped assassination in the tucquired for him an European reputamult. He died in 1560. ion. His illustrations of the Bible, of 1883.

Dorce (do're), a fish. See Dory.

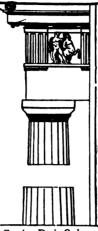
who, in 1284, commanded the Genoese fleet which at Meloria annihilated the power of Pisa; LAMBA DORIA, who, in 1298, defeated the Venetian Dandolo at the naval battle of Cursola; PAGANINO Périgord, and small portions of Limbusin, Angoumois and Saintonge. Area, the naval battle of Curzola; Paganino Perigord, and small portions of Limbusin, Angoumois and Saintonge. Area, the naval battle of Curzola; Paganino Dori, and the middle of the fourties of the plow. The chief minerals re iron, which is abundant, slate, lime-tone, marble and other stone. Mining, son manufacture, etc., are carried on to considerable extent, and there are a umber of vineyards. The climate is slid but somewhat changeable. Pop. 1906) 447,052.—The river Dordone, ment with the Genoese with the religious on the banks of the Puy-de-Sancy, lows W. S. W. and, after a course of 290 niles, unites with the Garonne in forming the Gironde.

Dord (dō-rā), Paul Gustave, a prolific French drafts man and sainter, born at Strasbourg, January 6, 1833. He studied at Paris, contributing, order in Genoa, reorganized the Venetian Dandolo at the naval battle of Curzola; paganite the naval battle of Curzola; paganite the naval battle of Curzola; paganite the naval battle of Curzola; on the middle of the fourties the naval battle of Curzola; on the middle of the fourties the religious the preactive, who, in the middle of the fourties, the naval battle of Curzola; on the middle of the fourties the tentury, distinguished himself by great victories over the Venetians. But the greatest name of the Dorias is that the greatest name of the Dorias is that the greatest name of the Family. After serving some time as a condottiere with the princes of Southern Italy, he was entrusted by the Genoese factions drove him to take service with Francis I of Francis Prance, in which he highly distinguished himself great victories over the Venetians. But the greatest name of the Dorias is that the princes of Southern Italy, he was entrusted by the Genoese with the reconstruction of their fieet. Disagree construction of their fieet. Disagree with the projects of Francis for reducing Genoa to a place of secondary importance, he went over to the service of Charles V (1529),

Dorians (dor'i-anz), one of the four Ariosto's Orlando Furioso, and Milton's paradise Lost are also of high excellence. Nation who migrated from Thessaly as a painter he has grandeur of conception and a bold, expressive style. Among mountainous district of Doris in Northis chief works are Christ leaving the ern Greece and finally in Peloponnesus. Pratorium, Paolo and Francesca di Their migration to the latter was said Prætorium, Paolo and Francesca di Their migration to the latter was said Rimini, The Flight into Egypt, Mont to have taken place in B.C. 1104; and Blanc, etc. In later years Doré also as among their leaders were certain dewon fame as a sculptor. He died in scendants of Hercules (or Heracles), it was known as the return of the Hera-clidse. The Dorians ruled in Sparta with Dorema (do-re'ma), a genus of plants, nat. order Umbelliferse. D. man. order Umbelliferse. D. man. order Umbelliferse. D. the stem and dries in little 'tears.'

Doria (dō're-à), one of the most powerful families of Genoa, became listinguished about the beginning of the welfth century, and shared with three ther leading families, the Fieschi, 3rimaldi and Spinola, the early government of the republic. Among the older neroes of this family are Oberta Doria, religious services and war.

simplest of the three Grecian or-ders, and the one that is best represented among the remains of ancient Greek architecture. The Doric column is distinguished by its want of a base (in the more ancient examples, at least), by the small number of its flutings, and by its massive proportions, the true Grecian Doric having the height of its pillars six times that of the diameter. The capital was small and simple, and the architrave, frieze and cornice were rather plain and massive.



Grecian Doric Order.

Dorigny (do-re-nye), the name of Dorigny (do-re-nye), the name of several French painters and engravers. MICHAEL, born in 1617, became professor in the Academy of Paris, and died in 1605. Louis, son of the preceding, was born in 1634, settled in Italy, and died in 1742. Sir Nicholas, brother of Louis, born in 1658 at Paris, roof, on a frame rising vertically above was the most celebrated of the three. He spent eight years in engraving the windows because they are named dormer famous cartoons of Raphael at Hampton in attic bedrooms (Fr. dormir, to sleep). Court, and was knighted by George I.

Doris. See Sea-lemon.

certain animals pass a portion of the year. In cold and temperate climates this period of long sleep takes place during the winter months, and is properly of Constance. Pop. 13,052. called hibernation. It commences when the food of the animal begins to get for a longer or shorter table cloths and senerally checkered.

Doric Order, in architecture, is the period, and is deeper or lighter accordance oldest, strongest and ing to the habits and constitution of the animal. Bats, bears, some animals of the rodent order, such as the porcupine, the dormouse, some squirrels, etc., all the animals belonging to the classes of Amphibia and Reptilia, such as tortoises, lizards, snakes, frogs, etc., and many species of molluscs and insects, hibernate species of molluscs and insects, hibernate more or less completely, retiring to suitable places of concealment—the bat to dark caves, the hedgehog to fern-brakes, snakes to holes in trees, etc. During hibernation there is a great decrease of heat in the bodies of the animals, the temperature sometimes sinking to 40° or over 20° Tehro or in concert to a prior temperature sometimes sinking to 40 or even 20° Fahr., or in general to a point a little above that of the surrounding atmosphere. The respiration as well as the pulsation of the heart is exceedingly slow, and the irritability of the animal often so low that in some cases it can be awakened only by strong electric can be awakened only by strong electric transpaces. With froze and amphibitions With frogs and amphibious reptiles the dormant state is very com-mon, and if the temperature is kept low by artificial means they may remain dormant for years. The term astiration has been used to describe a similar condition into which certain animals, such as serpents and crocodiles, in tropical

brother of Louis, born in 1658 at Paris, roof, on a frame rising vertically above was the most celebrated of the three. the rafters. They are named dormer He spent eight years in engraving the windows because they are found chiefly famous cartoons of Raphael at Hampton Court, and was knighted by George I.

Dormouse (dor mous; Myorus), a genus of mammiferous quadrupeds, of the order Rodentia. These mountainous region of Northern little snimals which appear to intermountainous region of Northern little animals, which appear to be inter-Greece, at one time the abode of the mediate between the squirrels and the Dorians (which see). tries, and subsist entirely on vegetable food. Their pace is a kind of leap, but Dorking (dork'ing), a town of Engthey have not the activity of squirrela.

Miles s. s. w. of London, largely consisting of villa residences. Large numbers of fowls, known as Dorkings, of an argic or torpid state, reviving only for excellent breed, having five claws on the London markets. Pop. (1911) 7850.

Dormant State (dor'mant), a state of torpidity in which a birth.

Town him good. Their pace is a kind of leap, but they have not the activity of squirrela. While feeding they sit upright and carry. The dormice pass the winter in a lethest of their hourded stores and then relapse into the dormant state. They bring forth three or four at certain animals pass a portion of the Thorn him (dorn'him) a manufacture. Their pace is a kind of reap, was they have not the activity of squirrela. While feeding they sit upright and carry the food to their mouth with their pays.

scarce, continues for a longer or shorter table-cloths, and generally checkered.

Dornoch (dor'nok), a seaport and parfound, but the quarries yield the wellliamentary and royal burgh known Portland stone. Pipe-clay, plasof Scotland, county of Sutherland, at the tic clay and potter's clay also abound.
entrance of the Dornoch Firth, the seat of the extinct bishopric of Caithness. It of flax, canvas, duck, silk and woolens.
is one of the Wick district of parliamentary burghs. Pop. 624.—The Dornoch ous kinds, but the mackerel is the most
Firth runs inland for about 16 miles abundant. Near the mouth of Poole harbetween Ross-shire and Sutherlandshire. For is a prolific oyster bank. Dorchester
Dorogobush (da-ra-ga-bösh'), a town is the county town. Other towns are

Bridgorf. Poole and Weymouth, Pop. Dorogobush (da-ra-ga-bösh'), a town of Russia. in the government of and 55 miles E. N. E. of Smolensk, on the Dnieper. Pop. 6640.

Dorohoi (dō-rō-hoi'), a town of Roumania in N. W. Moldavia, near the Austrian frontier. Pop. 12,701.

Dorset, Earls of See Sackvill Dorset, Earls of See Sackvill Correct town of Roumania in N. W. Moldavia, near the Austrian frontier. Pop. 12,701.

of Solingen.

Dorpat (dor'pat), a town of Russia, government of Livonia, on the Embach, about 135 miles N. E. of Riga. Dorpat is chiefly remarkable for its university and other educational establishments. It is an ancient town, and was once a member of the Hanseatic Union. In 1704 it passed definitively into the hands of Russia. The vernacular language is Esthonian, but that of the learned is German. Pop. 42,421.

D'Orsay (dor'sa), ALFRED, COUNT, a dilettante artist and man of fashion, born at Paris in 1798; died in 1852. When a young man he visited England, and became acquainted with Byron and other literary and fashionable celebrities. He married a daughter of the Earl of Blessington, but after the earl's death a separation took place, and D'Orsay became an immate of Gore House,

Dorset (dor'set), Dorsetshire, a maritime county in the south of the result was the condemnation of the The result was the condemnation of the Arminians and the dogmatic establishment of Calvinism in the Reformed Channel; area, 988 sq. miles. The general surface of the county is undulating; Dutch translation of the Bible known as its principal elevations being chalk hills known as the North and South Downs, upon which immense flocks of sheep are of Hampshire and along part of the searcoast, is a heathy common. A great part of the county is in grass, and dairy being due to its becoming the center of Neither coal nor ores of any kind are

Dorset, Earls of. See Sackville.

Dorstenia (dor-stě'ni-a), a genus of plants, nat. order Urtica-Dorp, a former town in the Rhine prov-ince of Prussia, on the Wupper. They have their naked flowers buried in It has important manufactures of cutlery, a flat, fleshy, somewhat concave recep-paper, etc.. It is now part of the town tacle. D. Contrayerva and other species have a stimulant and tonic rhizome, which is used medicinally under the name

Dort, or Dordnecht (dort, dor'drekt), a town of Holland, province of South Holland, 14 miles.s. E. of Rotter-South Holland, 14 miles.s. E. of Rotter-dam, on the Merwede, an arm or part of the Maas, and on an island separated from the mainland by an inundation in 1421. It is an old town, with a fine Gothic church (Groote Kerk, 'Great Church'), a good town house, museum, etc. It was formerly of more importance than now, but it still carries on an ex-tensive trade, being not only near the sea, but by the Rhine, the Maas and other water communications, connected with an immense extent of inland terri-

Dort, Synon of, an assembly of Protestant divines convoked at Dort in 1618-19. Besides the Dutch and D'Orsay became an inmate of Gore House, in 1618-19. Besides the Dutch and which the Countess of Blessington had Walloon divines, it included representante the center of a famous literary tives from England, Scotland, Switzer-coterie. A zealous Bonapartist, he followed Prince Louis Napoleon to Paris 62 native and 24 foreign deputies. The in 1849, and enjoyed his favor till his synod was convoked principally for the death.

Dorse (Morrhua Callarius), a fish of the cod genus, called also Baltic cod.

Description (dor'set), Dorsetshure a mari-

the vicinity, and to the active manufactures of iron, steel, machinery, railway plant, etc. There are also a number of first novel, Poor People, came out in breweries, potteries, tobacco factories, later novel, Poor People, came out in breweries, potteries, tobacco factories, later novel, Poor People, came out in breweries, potteries, tobacco factories, later novel, Poor People, came out in first novel, Poor People, came out in first novel, Poor People, came out in strength in English are Crime and Punish of the chief tribunal of the Vehme. Pop. (1910) 214,226.

Dory (do'ri), or John Dory (Zeus nockerel family, celebrated for the delicact of the family, and is shaden fertilizer works. Pop. 7016.

flesh. It seldom exceeds 18 inches in length, and is shaden and fertilizer works. Pop. 7016.

Totis (do'tis), or Totis, a market town of Hungary, county Komorn, 37 miles w. n. w. of Budapest. It has a castle of the Esterhazy family, and manufactures of woolens and stoneware,



superstitious practices.

superstitious practices.

Dosso Dossi (do'sō do'sē), an Italian painter of the Ferrara school born in 1479; died in 1542. He was much honored by Duke Alfonso of Ferrara, and immortalized by Ariosto (whose portrait he executed in a masterly manner) in his Orlando. Modena and Ferrara possess most of his works.

Dost (dōst), Mohammed Khan, born about 1790, a successful usurper who obtained possession of the throne of Afghanistan after the flight of Mahmud Shah in 1818. He ruled with very great ability, and although driven from his throne by a British army was ultimately restored, and later became a steady supporter of British power in the East. See Afghanistan.

Dostolefisky (dos-to-yef'ski), Fromately restored, and later became a steady supporter of British power in the East. See Afghanistan.

Dostolefisky (dos-to-yef'ski), Fromately restored, and later became a steady supporter of British power in the East. See Afghanistan.

Dostolefisky (dos-to-yef'ski), Fromately restored, and later became a steady supporter of British power in the East. See Afghanistan.

Dostolefisky (dos-to-yef'ski), Fromately of the same name, 13 miles northwest of Quimper. It depends chiefly on the sardine fishery.

Dostolefisky (construction of engineers he devoted himself to literature, but becoming connected with communistic schemes he was banished to the mines

yellowish manufactures of woolens and stoneware, green in color etc. Pop. 7220.

with a black-ish spot on Dotterel (dot'e-rel; Charadrius mori-ish spot on nellus), a species of plover ish spot on nellus), a species of plover each side, which breeds in the north of Europe, and which, accord-returns to the south for the winter. In

which, according to an old superstition, is the mark of St. Peter's foreinger and thumb. The dory is found on the Atlantic shores of Europe and in the Mediterranean. The name John Dory is States, including the golden plover, the supposed to be derived from the French jaune doré, golden yellow.

Dositheans (dō-sith'e-anz), an ancient sect among the Samaritans, so called from their founder Dositheus, who was a contemporary and associate of Simon Magus, and lived in the first century of the Christian era. They rejected the authority of the prophets, believed in the divine inspiration of their founder, and had many superstitious practices.

Which accord returns to the south for the winter. In Scotland it appears in April and leaves in August, the young being hatched in August, at South of the Scatasian July. It is found all over Europe and hourse, cannon foundry, linen manufactories.

Double Flowering, is the development, often by originally lined or wadded for defense, cultivation of the stamens and pistils of flowers into petals, by which the beauty of the flower is enhanced and its reproductive powers sacrified.

Double Insurance, the effecting of ance as if the whole substance of the two insurance are crystal were colored.

Double Insurance, the effecting of ance as if the whole substance of the two insurance in surance it is lawful for a shipper to insure his goods twice, but only to give an other so that a space is left between the additional security in the event of the additional security in the event of the two. It is used in domes or vaulted roofs failure of the first underwriters. In the when the external and internal arrangement received its name from being originally lined or wadded for defense.

Doublet, in lapidary work, a counterfield them, so that they have the same appearance as if the whole substance of the two. It is used in domes or vaulted roofs failure of the first underwriters. In the when the external and internal arrangements require vaults differing in size or shape, the outer and upper vault being

or when photographed. One of these Doubs (dö), a department of France, stars may revolve about the other, or both may revolve round a common center. Its surface is traversed by See Stars.



1, Doublet, time of Edward IV. 2, 3, Doublets, neau. Her time of Elisabeth. 4, Doublet, time of Charles I. gold-mines. land in the fourteenth century, and was worn by both sexes and all ranks until the time of Charles II, when it was superseded by the vest or waistcoat. The copper-smelting industry, Pop. 13,672.

among the underwriters in the ratio of the risks they have taken.

Double Standard of Monetary

The building, the inner or lower with the interior. See Dome.

Value. See Currency, Bimetallism.

Double Stars, or Binary Stars, which are so close together that they appear as one to the naked eye, but are seen to be double when viewed through a telescope, or when photographed. One of these Table 1480 and 1

four chains of the Jura. The tempera-See Stars.

Doublet (dub'let), a close-fitting garment, covering the body from
the neck to a little below the waist. It
was introduced from France into Engwas introduced from France into Engwas introduced from France into Engwas introduced from France into England is arable, but much the greater part
is covered with forests. Maise, potatoes,
hemp and flax are the principal crops.
Much dairy produce is made into Gruyère cheese. The minerals include iron,
lead and marble. Pop. (1906) 298,438.

—The river Doubs rises in the department to which it gives its name, flows ment to which it gives its name, flows first N. E., then N. W. till it joins the Saone at Verdun-sur-Saone; length, 250 miles.

Douche (dösh), a jet or current of water or vapor directed upon some part of the body; employed in bathing establishments. When water is applied it is called the liquid douche, and when a current of vapor the vapor douche. Douglas (dug'as), capital of the Isle of Man, is situated on the southeast coast of the island on a beausoutheast coast of the island on a beautiful semicircular bay. It is frequented by immense numbers of visitors during the summer. Among the objects of interest are the House of Keys, the customhouse, the extensive breakwater, the promenade, etc. Pop. (1911) 21,101.

Douglas, a town in s. E. Alaska, on Douglas Island, opposite Juneau. Here are the famous Treadwell gold-mines.

was defeated and taken prisoner by Percy (Hotspur) at Homildon, September 14, 1402. He was also taken prisoner at Shrewsbury, July 23, 1403, and did not recover his liberty till 1407. He was killed at the battle of Verneuil, in Normandy, in 1427. Charles VII Was killed at the battle of Verneuli, in Normandy, in 1427. Charles VII created him Duke of Touraine, which title descended to his successors.—WILLIAM, sixth earl, born in 1422, together with his only brother David was assassition. tle, on November 24, 1440. Jealousy of confecting many rare plants and trees. In the great power which the Douglases 1827 he returned to England, and some had acquired from their possessions in Scotland and France was the cause of to the Sandwich Islands, where he met this deed.—WILLIAM, the eighth earl, a his death by an accident in 1834.

descendant of the third earl restored the power of the Douglases by a marriage the sound of America. He was the sound of American and trees. In the great power of the Douglases by a marriage the sound of American and trees. In the great power of the power of t descendant of the third earl restored the power of the Douglases by a marriage with his cousin, heiress of another branch the son of Archibald, earl of Angus, and

Douglas (dug'las), a family distinguished in the annais of Scotland. Their origin is unknown. They were already territorial magnates at the time when Bruce and Baliol were competitors for the crown. As their competitors for the crown. As their dered by the king's own hand, February estates lay on the borders they 22, 1452.—James, the ninth and last earl, carly became guardians of the kingdom brother of the preceding, took up arms against the encroachments of the Engwith his allies to avenge his death, but lish, and acquired in this way power, was finally driven to England, where he labits and experience which frequently continued an exile for nearly thirty made them formidable to the crown. We notice in chromological succession the most distinguished members of the confined in the abbey of Lindores, where family. James, son of the William and Douglas who had been a companion of been forfeited in 1485. His estates, which had Douglas who had been a companion of been forfeited in 1485, were bestowed on Wallace, and is commonly known as the deader at the battle of Bannockburn. He fell in battle with was the celebrated 'Bell-the-Cat,' one the Moors while on his way to the Holy of whose sons was Gawin Douglas, the Land with the heart of his master, in poet. He died in a monastery in 1514. 1331.—Archibald, poungest brother of Archibald, the sixth earl, married Queen St. James, succeeded to the regency of Margaret, widow of James IV, attained 1357. He recovered Douglasdale from the English, and was frequently engaged in wars with them. He fought end the preceding, was created first earl in forced to fiee from the kingdom, died 1357. He recovered Douglasdale from the English, and was frequently engaged in wars with them. He fought end the preceding, was created first earl in forced to fiee from the kingdom, died 1357. He recovered Douglasdale from the English, and was frequently engaged in wars with them. He fought end for the preceding was created first earl in forced to fiee from the kingdom, died 1357. He recovered D Marquis of Douglas. Archibald, the great-grandson of William, was raised in 1703 to the dignity of Duke of Douglas, but died unmarried in 1761, when the ducal title became extinct, and the marquisate passed to the Duke of Hamilton, the descendant of a vounger son of the first marquis. The line of Angus or the Red Douglas is now represented by the houses of Hamilton and Home, who both claim the title of Earl of Angus.

Thouglas DAVID, a Scottish botspict

Douglas, David, a Scottish botanist, born in 1798. In 1823, as with his only brother David was assassinated by Crichton and Livingstone at a botanical collector to the Horticultural banquet to which he had been invited in Society of London, he came to the United the name of the king, in Edinburgh Cas-States, and in 1824 went to California, tle, on November 24, 1440. Jealousy of collecting many rare plants and trees. In

was born at Brechin about 1474. He received a liberal education, commenced at home and completed at the University of Paris. On returning to Scotland he took orders in the church, and ultimately 1870 he started a journal entitled The became Bishop of Dunkeld. He died of the plague in 1522 in London, where he had been obliged to take refuge on account of political commotions. He translated Virgil's Encid into verse with much spirit and elegance, prefixing original prologues to the different books of the original. This was the first poetical author. It was written about \$512, and first published in 1553. He also wrote The Palace of Honor and King Hart, both allegorical poems.

Douglas, British general, born in 1776, the son of Admiral Sir Charles Douglas, He served in Spain in the Peninsular war, and acquired much reputation by his writings on military subjects, especially by his Treatise on Naval Gunnery (1819). From 1823 to 1820 he was governor of New Brunswick, and from 1835 to 1840 lord high-commissioner of large, fan-shaped leaves. The fruit November, 1861.

Douglas, Stephen Arnold, an American bour in 1851, and died in 1851, and died in 1853.

Douglas, Stephen Arnold, an American bour in 1851, and died in 1853. The fruit November, 1861.

Douglas, Stephen Arnold, an American bour in 1851, and died in 1853. The fruit November, 1861.

Douglas, Stephen Arnold, an American bour in 1851, and died in 1855. The fruit November, 1861.

Douglas, Stephen Arnold, an American bour in 1852 (an statesman, born in Ver-

November, 1861.

Douglas, Stephen Arnold, an American statesman, born in Vermont in 1813; died in 1861. Having gone to Jacksonville, Illinois, he became an attorney, was appointed attorney-general for the State, and in 1843 was elected a member of the United States House of Representatives. In 1847 he was member of the Senate, and by reëlection remained a member of this body till his death. He was especially prominent in connection with the question as to the extension of slavery into new states and territories, which he maintained was a extension of slavery into new states and territories, which he maintained was a matter to be settled by the people of the respective states or territories, and not by Congress. There was a memorable contest between him and Abraham Lincoln for the Senate in 1858, Douglas being elected. He was the candidate of the Northern Democracy for the presidency in 1860, but was defeated by Lincoln coln.

Douglas, FREDEBICK, an American lecturer and journalist, was the son of a negro slave, and was born at Tuckahoe in Maryland, about 1817. Although his father was a white man, he was, according to the law, reared as a slave. In 1832 he was purchased by a fibrous, mealy rind, which tastes like Baltimore shipbuilder, but made his gingerbread (whence the name ginger-escape in 1838. As he had taught himbrook bread tree, sometimes applied to this self to read and write, and showed talpalm), and is eaten by the poorer inent as an orator, he was employed by the habitants of Upper Egypt, where it



grows. An infusion of the rind is also used as a cooling beverage in fevers. The seed is horny, and is made into small Morristown. It has rolling, knitting ornaments. Ropes are made of the fibers and silk milk, etc. Pop. 7468.

Dove (duv). See Turtle-dove and Pig-

Dove (do've), HEINRICH WILHELM, a German physicist, distinguished by his researches into the laws of climate by his researches into the laws of climate and meteorological phenomena, was born in 1803; and died in 1879. Among his works are Meteorological Researches of a dovetail into a corresponding cavity (1837), Distribution of Heat on the Surface of the Globe (1852), and Law of Storms (1857).

Dove-plant. See Holy Spirit Plant.

Dover (do'ver), a borough of England, County Kent, 67 miles southeast of London. It lies on the coast of the Strait of Dover, and is 21 miles distant from Calais on the French Coast. It is an important railway terminus, and as a port for mail and packet service with the continent has a large passenger traffic. Shipbuilding, sailmaking and fisheries are the chief industries. The harbor has been much improved in recent years. The entrance is protected by the Admiralty Pier, which is nearly half a mile in length. The celebrated castle of Dover stands on a chalk cliff 350 feet in height. Pop. (1911) 43,647.

Dover, a borough of England, blage of mountain massem blage of mountain massem in Norway, forming the central part of the Scandinavian system, and extending as a plateau 2000 feet high E. N. E. from lat. 62° N. to lat. 63°. It is generally composed of gneiss and mica schist. One of the mountains belonging to it is Snehaetta, 7620 feet.

Dow, or Douw (properly Dou), Grebout School, was the son of a glazier, and born at Leyden in 1613. He studied under Rembrandt, and united his master's manner in chiaroscuro with the most is protected by the Admiralty Pier, which is nearly half a mile in length. The celebrated castle of Dover stands on a chalk cliff 350 feet in height. Pop. (1911) 43,647.

Dover, a city, capital of the State of Dover, a city, capital of the State of Dover and blage of mountain massem in Norway, forming the central part of the Scandinavian system, and extending as a plateau 2000 feet high E. N. E. from lat. 62° N. to lat. 63°. It is generally composed of gneiss and mica schist. One of the mountains belonging to it is Snehaetta, 7620 feet.

Dow, or Douw (properly Dou), Grebour and mica schist. One of the mountains belonging to it is Snehaetta, 7620 feet.

Dow or Douw (properly Dou), Grebour and mica schist. One of the mountains belonging to it is Snehaetta. 7620 feet.

Dow or Douw (properly Dou), Grebour and mica schist. One of the mountains belonging to it is Snehaetta. 7620 feet.

Dow or Douw (pr

13.247.

of the leaf-stalks.

Douro (dö'rō), or Duebo, one of the largest rivers of the Spanish Peninsula, which, flowing west, traverses about one-half of Spain and the whole of Portugal, and, after a course of 500 the channel at a medium in the highest miles, falls into the Atlantic 3 miles below Oporto. It is navigable for small low Oporto. It is navigable for small both the French and English sides the chalky cliffs show a correspondency of Spain and the Wolf of the channel at a medium in the highest spring tides, is about 25 fathoms. On both the French and English sides the chalky cliffs show a correspondency of strata which leaves no room for doubt that they were once united, this being the chalk of the channel at a medium in the highest spring tides, is about 25 fathoms. On both the French and English sides the chalky cliffs show a correspondency of strata which leaves no room for doubt that they were once united, this being that they were once united, this being also known through other evidence.

Dover's Powder, a preparation frequently used in Dove, a river of England in Derby.

Base Walton. After a course of 39 in medical practice to produce perspiration. It consists of 1 grain of opium, 1 of in the favorite stream of the course of 39 in the cou dose. In preparing it the ingredients must be thoroughly mixed.

on a chalk cliff 350 feet in height. Pop. (1911) 43,047.

Dover, a city, capital of the State of Dow, Delaware and of Kent Co., in that State, 48 miles s. of Wilmington. It is in a large fruit-growing district, and has canning industries. Pop. 3720.

Dover, a city, capital of Strafford Co., still prevails in Maine, about 1803: died in 1897. Elected a member of the legislature, he procured the passage of the famous 'Maine liquor law,' prohibiting the sale of ardent spirits. This law of sale of the Cochecho, which has here a fall of over 30 feet, affording abundant water-power for the large manufactories of cotton and woolen goods, shoes, machinery, belting, glue, lumber, etc. It is the oldest town in the State, having been settled in 1623. Pop. 13,247.

industries. Pop. 5088.

nents of which her husband dies possessed. By common law this right amounts to me-third of his estate during her life; by local custom in England and state aw in the United States it is frequently reater. Where the custom of gavelkind revails the widow's share is a half, and hat of free-bench gives her a third of copyhold. The term is also applied to he property which a woman brings to ter husband in marriage, but this is more correctly down. orrectly down.

ndustry near Waukegan, Illinois. Here is started a religious propaganda, naming the place Zion and his followers Zionites. He announced that he was carried a religious propaganda, naming the place Zion and his followers. He announced that he was carried a religious propaganda, naming the place Zion and his followers. He announced that he was carried a religious city applied to two ranges of the prophet Elijah returned to earth, undulating chalk hills in England, extending through Surrey, Kent and Hamplace so shrewdly that Zion became a tending through Surrey, Kent and Hamplace so shrewdly that Zion became a challenge of the purpose of ships, extending through Surrey, Kent and Hampland, for the purpose of converting that irreligious city, but the effort ended in complete failure. In 1903 he sought Mexico, protected on the seaward side by Goodplanning new settlements, but a revolt igainst him broke out in Zion, where its management had given rise to distance the purpose of converting that irreligious city, but the effort ended in complete failure. In 1903 he sought Mexico, protected on the seaward side by Goodplanning new settlements, but a revolt igainst him broke out in Zion, where its management had given rise to distance the purpose of converting that irreligious city, but the effort ended in complete failure. In 1903 he sought Mexico, protected on the seaward side by Goodplanning new settlements, but a revolt igainst him broke out in Zion, where its management had given rise to distance the purpose of converting through Surrey. He was deposed on the country of the purpose of converting that irreliging through the property of the purpose of converting that irreliging through the purpose of converting the purpose of converting that irreliging through the purpose of converting that irreliging through the purpose of converting that irreliging through the purpose of converting that irreliging the purpose of converting that irreliging through the purpose of converting that irreliging through the purpose of convert atisfaction, and he was deposed on charge of polygamy, W. G. Voliva ucceeding. He died on March 9,

Dowlas (doulas), a kind of coarse linen formerly much used by working people for shirts; this use of it s now generally superseded by calico.

Dowletabad. See Daulatabad.

Down (doun), a county of Ireland, in Ulster, bounded on the north by Belfast Lough and on the east by the Irish Sea; area, 950 sq. miles, of which wer five-sixths are productive. The surface is very irregular, and in parts mounainous, Slieve Donard in the Mourne Mountains, being 2796 feet high. Agribulture is comparatively advanced, oats, wheat, flax and potatoes being the principal crops. The native breed of sheep s small, but valued for the delicacy of ts mutton and the fine texture of its mouton and muslin. The fisheries on the coast, principally cod, haddock and terring, are considerable. The county own is Downpatrick; others are Newonards and Banbridge. Pop. 289,335.

Tatter, etc.). Both the doxologies have a place in the Church of England liturgy, the latter being repeated after every psalm, and the former used in the communion service.

Doyen (dwå-yān), Gabriel François, a French painter, born in 1726, was a pupil of Vanloo, and afterwards studied at Rome. Returning to Paris in 1753 he worked long without recognition, but at length won fame by his great picture, Virginia's Death. Catharine II invited him to Russia soon after the outbreak of the Revolution. He settled at St. Petersburg, where he died in 1806.

Doyle (doil), Abthue Conan, novelist, was born at Edinburgh in 1859.

He became a doctor, but devoted himself to literature after 1890. He is best to literature of St. Petersburg, where he died in 1806.

Dower (dou'er), in common law, is Downing, Andrew Jackson, land-the right which a wife (not eing an alien) has in the lands and tene- at Newburgh, New York, in 1815. The aents of which her husband dies possessed, son of a nurseryman, he became inter-ly common law this right amounts to ested in similar pursuits; in 1841, published an excellent treatise on Landscape Gardening, and in 1845 Fruits and Fruit Trees of America, which was highly suc-cessful. He was a contributor to the Hor-ticulturist from 1846 to 1852, when he was drowned in consequence of the burn-ing of the steamboat Henry Clay, on the Hudson River.

Downpatrick (doun-pat'rik), a mar-ket town and seaport Dowie (dou'e), John A., a religious of Ireland, county town of Down, 21 fanatic, born in Scotland, bemiles s. z. of Belfast. It is the seat of miles s. z. of Belfast. It is the seat of more a pastor in Australia, afterwards the diocese of Down Connor and Droought the United States and settled more, has a cathedral, and is celebrated the supposed burial place of St. ndustry near Waukegan, Illinois. Here Patrick. Pop. 3621.

Doxology (doks-ol'ô-ji; from Greek doxa, praise, glory and logos), a set form of words giving glory to God, and especially a name given to two short hymns distinguished by the title of greater ('Glory be to God on high,' etc.) and lesser ('Glory be to the Father,' etc.). Both the doxologies have a place in the Church of England liturgy, the latter being repeated after every

Doyle, Richard, an artist, born at America. The most generally cultivated species is D. canariense, or Canary balm of Gilead.

He was long well known as a constant of Gilead.

contributor of satirical designs in Punch, and also showed much talent in illustrations to Leigh Hunt's Jar of Honey, Araceæ, with a long, spotted stalk. They Thackeray's Newcomes and his Rebecca and Rowena, Ruskin's King of the Golden River, etc. In later life he devoted himself to water-color painting.

Dozy (dō'zi), Reinhart, a Dutch orientalist and historian, born in 1820; died in 1883. He was thoroughly versed in most of the Semitic tongues, and spoke and wrote almost all the European languages with facility. Among his works (sometimes in Dutch, sometimes in French) are Histoire des Musulmans d'Espagne de 711-1110; Géographie d'Edrisi; De Israeliten to Mekka; Het Islamisme; Supplements aux Dictionnaires Arabes.

Dracæna (dra-se'na), a genus of endragon-tree of Teneriffe (D. Draco), celevrated for producing the resin called dragon's blood. (See Dragon's Blood, Dragon-tree.) Several species of Dracæna are cultivated in greenhouses for the

dragon's blood. (See Dragon's Blood, Dragon-tree.) Several species of Dracena are cultivated in greenhouses for the beauty of their foliage, but many of the ally prohibited in rivers where fish breed, fine plants known by this name belong as it takes all indiscriminately.

name has become proverbial as an inextion scheme, shorable and bloodthirsty lawgiver, and Hague tribunal, whose laws were said to have been writ-

whose laws were said to have been written in blood, not ink.

Dragoman (drag'o-man), a word of ten in blood, not ink.

Draco, the Dragon, a constellation of the northern hemisphere, containing, according to Flamsteed, eighty stars. The star (7) Draconic is celebrated as the one used in determining brated as the one used in determining Dragon (drag'on), a fabulous monster, the coefficient of aberration of the fixed

able historical novels, The White Company, Micah Clarke, etc.

Doyle, RICHARD, an artist, born at America. The most generally cultivated
London in 1826; died in 1883, species is D. canariense, or Canary balm

strictly to other genera.

Drachenfels (drä'hen-fels; 'dragon rock'), 'the castled crag of Drachenfels,' as Byron calls it, a south a southeast of Bonn, rising 900 feet above of Drachenfels.

Drache Draco (dra'ko), a legislator of Athwas adopted by the Congress, with the ens, about 620 B.C., whose agreement that it, with a general arbitraname has become proverbial as an inextion scheme, should be submitted to The

reach back almost as far as history. Its Dracocephalum (dra-ko-sef'a-lum; form is described as generally resembling dragon's head'), a that of a winged and two-legged serpent. genus of odoriferous annual and peren- the body covered with scales, the head



Dragon, or Dragon-Lizan, a name tinctures, etc.

Dragon, for several species of lizards inhabiting Asia, Africa and South Amer

Dragon's-head, a name of certain plants of the genus inhabiting Asia, Africa and South America. The common flying lizard (Draco Dracocephalum (which see).

rolans), the best type of the genus, is about 10 or 12 inches in length, the tail being extremely long in proportion to the body. The sides are furnished with and in old age often much branched. It peculiar extensions of the skin, forming is a native of the Canaries, and yields a kind of wings, which help to support the resin known as dragon's blood. It it in the air when it springs from branch to branch. Its food consists almost exclusively of insects.

Dragoon (dra-gön'), a kind of mount-clusively of insects.

Record Green and South American plants of the genus plants of the

Dragon, GREEN, a plant.

Dragon-fly, a family (Libellulidæ) formed in 1681.

They have a large head, large eyes and strong, horny mandibles. They are beautiful in form and color and ever and tiful in form and color, and are of very powerful flight. The great dragon-fly (Eshna grandis) is about 4 inches long, and the largest of the European species. and the largest of the European species. has some interesting edifices and manufrey live on insects, and are remarkable factures of silk, soap and leather. Pop. for their voracity. The dragon-fly deposits its eggs in the water, where the larvæ and pupse live on aquatic insects.

The larval stage lasts for a year. The family is of very wide distribution. Or other collection of exudate when the The small blue Agrion is a common source of the exuded matter cannot be European form. In the United States excised. They are usually made of India rubber or caoutchouc, and are introduced devil's darning-needle.

crested, and the mouth spouting fire. Bands of soldiers, headed by priests, The immediate source of the medieval marched through the villages, giving the conception is probably the Scriptures, Protestant inhabitants the alternative of Frotestant inhabitants the alternative of renouncing their faith or being given over to the extortions and violence of the soldiery. The dragoons were conspicuous in these expeditions, to which they gave their name. The dragonnades drove thousands of French Protestants out of

Dragon's Blood, a resinous juice, usually obtained by incision from various tropical plants, as Calamus Draco, Dracana Draco, Pterocarpus Draco, etc. The varieties differ rocarpus Draco, etc. The varieties differ in composition, and are often much adulterated. It is opaque, of a reddish-brown color, brittle, and has a smooth, shining, conchoidal fracture. It is soluble in alther the Crusaders of the crocodiles in Egypt. cohol and oil, but scarcely so in water.

Dragon, one of the northern constellations. See Draco.

The Constitute and wood; for tooth ing marble, leather and wood; for tooth interest etc.

almost ex- Dragoon (dra-gön'), a kind of mounted soldier, so called origin-See Dra- ally from his musket (dragon) having on Dragonet (dragun-et), the common name of certain fishes of the Goby family. The gemmeous dragonet (Callionymus lyra) is found in the British seas.

Dragon-fly, a plant. See Lite and Former in Brusset (dragon) having on the muzzle of it the head of a dragon. At one time dragoons served both as mounted and foot soldiers, but now only as the former. In the British army there are heavy and light dragoons. The first British seas.

Dragon-fly, a plant. See Lite and Former in Brusset (dragon) having on the muzzle of it the head of a dragon. At one time dragoons served both as the former. In the British army there are heavy and light dragoons. The first British seas.

Draguignan (dra-ge-nyān), a town of Southern France, capital of dep. Var, in a beautiful valley, 41 miles northeast of Toulon. It has some interesting edifices and manufactures of the south of the sou

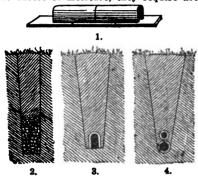
devil's darning-needle.

Dragonnades, or Dragonades (draggiven to the persecutions directed against
the Protestants chiefly in the south of
France, during the reign of Louis XIV.

The protect of caoutchouc, and are infroduced
into the abscess or wound so that one
end is in contact with the seat of discharge, while the other reaches to the
surface of the skin.

Training (dran'ing), in agriculture.

Training a method of improving the



Horseshoe tile with sole. Sections of Drain.
 Stone drain.
 Drain with horseshoe tiles.
 Drain with pipe-tiles.

which makes it inferior for agricultural purposes, may appear not only as surarely. Level lines are to be set out a face water, but as water which flows little below the upper edge of each of through the lower strata, and to draw off these planes, and the drains must then these there are the two distinct operations of surface draining and underdraining. The rudest form of open drains are the deep furrows lying between high-backed ridges, and meant to field may be. All the minor drains should carry off the surplus water after the soil is completely saturated, but in doing so mains, and not directly into an open they generally carry off also much of the ditch or water course. As a general rule, best of the soil and of the manure which has been spread upon it. The ordinary waters of the minor drains from every 5 ditch is a common form of water course acres. The advantages of drainage are

soil by withdrawing the water from it by neatly arranged in the bottom of the means of channels that are generally trench, the whole forming an open tube covered over. The successful practice of In tile drains, tiles or pipes of burnt clay draining in a measure depends on a are used for forming the conduits. They proper knowledge of the superficial possess all the qualities which are restrata, of their situation, relative degrees quired in the formation of drains, afford-of porosity, etc. Some strata allow water ing a free ingress to water, while they to pass through them, while others, more impervious, force it to run or filtrate other injurious substances. Drainage along their surfaces till it reaches more tiles and pipes have been made in a level ground below. In general, where the grounds are in a great measure flat which, since the introduction of thorand the soils of materials which retain ough draining, was the borseshoe tile. So called from its shape. These should always rest on soles, or flats of burned always rest on soles, or flats of burned clay. Pipe tiles, which combine the sole and cover in one piece, have been made of various shapes, but the best form appears to be the cylinder. An important department of draining is the carrying off of the waters which are the sources of springs. Sometimes the judicious application of a few simple drains, made to communicate with the watery layers, will often dry swamps of great extent, where large sums of money, expended in forming open drains in the swamp itself, would leave it but little improved. In the laying out of drains the first point to be determined is the place of outfall, which should always afford a free and clear outlet to the drains, and must necessarily be at the lowest point of the 1. Horseshoe tile with sole. Sections of Drain.

2. Stone drain. 3. Drain with horseshoe tiles.

4. Drain with pipo-tiles.

capable of yielding good crops whether of garded as being made up of one or more grain or grass. The wetness of land which makes it inferior for agricultural which makes it inferior for agricultural which the drains should be laid out september of the surface of each of which makes it inferior for agricultural which the drains should be laid out september of the surface of the surface of each of which makes it inferior for agricultural which the drains should be laid out september of the surface of each of the surface of each field must be received. has been spread upon it. The ordinary waters of the minor drains from every 5 ditch is a common form of water course acres. The advantages of drainage are useful in certain cases, as in hill pasobvious. In the first place, it allows the tures. But covered drains at a depth of soil to be brought into a more suitable 4 feet or so are the common forms in condition for the growth of plants, aiding draining agricultural lands. They are genin producing the finely divided and porerally either stone drains or tile drains. ous state by which the roots and rootlets Stone drains are either formed on the can spread themselves at will in order to plan of open culverts of various forms, obtain the needed supplies of food, air or of small stones in sufficient quantity and moisture. It also allows the sun's to permit a free and speedy filtration of rays to produce their full effect on the the water through them. The box drain soil and plants without being robbed of for instance, is formed of flat stones great part of it by the stagnant water.

In the traps represented below it will be seen that there must always be



Drain-trap.

is prevented from escaping by a metal ous character, but the queen maintained plate thrown obliquely over the drain that they were lawful reprisals for the mouth and dipping into the water in action of the Spaniards, and showed her



1571. In 1572, with two small ships, he dramas of Gordon Craig and Max Reinagain sailed for the Spanish Main, caphardt. The dramatic instinct seems to be tured the cities of Nombre de Dios and universal and we find the drama as a lit-vera Cruz, and took a rich booty, which erary form arising spontaneously in vari-

Drain-trap, a contrivance to prevent he brought safely home. In 1577 Drake the escape of foul air made another expedition to the Spanish from drains, and to allow the passage of Main, having this time command of five water into them. They are of various ships. On this, the most famous of his voyages, Drake passed the Straits of Magellan, plundered all along the coasts of Chile and Peru, sacked several ports, and a certain quantity of water maintained Chile and Peru, sacked several ports, and to bar the way against the escape of the captured a galleon laden with silver, gas from the drain or sewer. When ad-gold, jewels, etc., to the value of perhaps gold, jewels, etc., to the value of perhaps \$1,000,000. He then ran north as far as 48° N. lat., seeking a passage to the Atlantic, but was compelled to return to Port San Francisco on account of the cold. He then steered for the Moluccas, and holding straight across the Indian Ocean, doubled the Cape of Good Hope, and arrived at Plymouth, November 3, 1580, being thus the first of the English ditional liquid is conveyed to the trap circumnavigators. As there was no war there is, of course, an overflow into the between England and Spain, the prodrain. In the left-hand figure the gas ceedings of Drake had a somewhat dubimouth and dipping into the water in the vessel beyond it.

Drake (drak), Sir Francis, an English navigator, born at Tavistock, in Devonshire, in 1539, or, according to some authorities, in 1545. He served as a sailor in a coasting vessel, larly distinguished himself as vice-adand afterwards joined Sir John Hawkins in his last expedition against the Spaniards in the Cape Verde Islands and in the West Indies, and in 1588 particularly distinguished himself as vice-adamirads (1567), losing nearly all he possessed in that unfortunate enterprise. Having gathered a number of adventurers around him, he contrived to fit out a not so successful, and his death, which took place in 1596 at sea off Porto Bello, was hastened by disappointment. was hastened by disappointment.

was hastened by disappointment.

Drake, Joseph Rodman, poet, born in 1820. The poems of his which are still remembered are his beautiful work of imagination, The Culprit Fay, and his patriotic lyric, The American Flag.

Drakenberg Mountains (dra'kenburg), a western

range of S. Africa forming the western frontier of Natal, and rising to the height of 9000 ft., a continuation of the

Quathlamba range.

Quathlamba range.

Gra-ma; literally 'action' from a Greek word, meaning the state of the Drama form of art which represents action by introducing personages as real and employed in the action itself. There are many different forms of drama, but they all agree in presenting imitation in the way of action—from the titanic plays of Æstornises to the West Indies in 1570 and realistic dramas of Ibsen and the wordless 1571. In 1572, with two small ships, he dramas of Gordon Craig and Max Reinagain sailed for the Spanish Main. cap. to act or do), the term applied to that form of art which represents action by

ent underplot should be permitted.

ous countries. The Book of Job in the services. These were in Latin, but in Bible is one example. It was in Greece, the 11th century we find mysteries however, that the ancient drama reached being composed in the vernacular, and its highest development; and it is from characters and incidents outside of the Attic form chiefly that the modern has been gradually evolved. The Greek France, where dramatic performances had drama, like the mystery and morality plays which contributed so largely to the clergy, progress toward forms approach-development of the English drama, was ing the modern drama was speedy, though religious in origin, arising directly out of the earliest play, Adam, still revealed its the related worship of Dionysus, Bacchus, connection with the religious drama. In Apollo and Demeter. 'Both tragedy and comedy,' says Aristotle, 'originated in a entertainments survived even more abunrude and unpremeditated manner—the first from the leaders of the dithyramb, had its earliest development, and from and the second from those who led off the both Italy and Spain France received the phallic songs.' In the earliest extant exnrst from the leaders of the dilayramb, and its second from those who led off the phallic songs.' In the earliest extant examples, the tragedies of Æschylus (525- naissance were based. The native comic 456), the dialogue unfolds a complete drama of France was, indeed, in danger of story, while the chorus occasionally takes part in the dialogue, but usually merely (1622-73) effected a happy compromise explains incidents or moralizes upon the between the vernacular, the Terentian action. The number of dramatis persons and the Spanish comedy. In tragedy, the varied, but never more than three appeared on the stage at once, except as and Racine (1639-99). The tragedy was mute persons. The art of Sophocles largely Greek in construction, but with (495-406) was more perfect than that of uncharacter (1639-406), though far removed from the naive faith and devoid of the idealism of his great contemporaries, was more humane than they in his social philosophy and deeper in his psychological inspection of action, were often neglected. Comedy sight. These three names represent Greek tragedy, and the name of Aristophanes for any way to a new species of tragedy, and the name of Aristophanes are extremely sentimental variety which tragedy, and the name of Aristophanes drama, known as comédie larmoyante, represents comedy, satirizing with a fear- an extremely sentimental variety which lessness never since equaled, persons and later was transformed by D. Diderot political events of the day. The tragedies (1713-84) and others into the tragédie seem to have been composed for the most bourgeoise, from which the comic element part in trilogies, sometimes followed by a was to all intents and purposes extruded. fourth play, comic or satiric in character. Diderot's own plays were a literary rather Each division observed certain Unities, than a theatrical success, but are imporwhich were handed down for succeeding tant in the history of play-writing as generations, by the great critic, Aristotle. being the first attempt to make of the The Unity of Time ruled that not more theater an agent of social reform and enthan twenty-four hours should elapse betrust to it the gospel of philanthropy. than twenty-four hours should elapse betrust to it the gospel of philanthropy. tween the beginning and end of the action This form of drama undoubtedly helped embodied in the play; the Unity of Place, make room for the great romantic writers that the scene should not be changed; —Dumas (1802-70), Hugo (1802-85), and the Unity of Action that no independthese France again became the central seat of the drama in Europe. The roent underplot should be permitted.

Latin poets, among whom Plautus and Terence as writers of comedy, and Seneca as a writer of tragedy may be mentioned, to exercise a permanent control over added nothing to the drama, following French public taste. A. Dumas, the Greek models absolutely. And after the younger (1824-95), set himself to reform fall of Rome the drama virtually ceased to exist until it emerged in the medieval torien Sardou (1831-1908) applied himperiod as a wholly new and independent self to every kind of serious or seriogrowth in the mystery plays, dealing with scriptural events; the miracle plays, dealing with the legends of the saints; and the morality plays, allegorical in character. As early as the 9th century mysters were introduced into the church Théâtre Libre. Of the many authors

Drama Drama

only one who secured an assured position in the regular stage. His plays satirize he weak points of modern institutions and are strong in technique and characterzation. Other authors of the 'new comdy' not directly connected with the Théâtre Libre are George de Porto Riche, Henri Lavedan, Paul Hervieu, Maurice Donnay and Jules Lemaître. Edmund Rostand, whose Cyrano de Bergerao rought him a world-wide reputation, wrote drama of a purely poetic type.

wrote drama of a purely poetic type.

In Italy tragedy began to be written
n the vernacular early in the 16th cenn the vernacular early in the 16th cen-ury. It followed the models of Seneca, and the chorus did not disappear alto-tether until the 18th century. The earli-ist tragedy seems to have been Pistoia's Pamfile (1499). Tragedians of the 17th tentury sought by the introduction of nusical airs, to compromise with the ris-ng danger of the popularity of the opera. Writers of the 18th century directed their efforts to a general increase in freedom of restment and 8 Meffei with his Mercons reatment and S. Maffei with his Merope realment and S. Maner with his Merope thieved one of the most brilliant of all ecorded dramatic successes. Count V. Alfieri (1749-1803), the greatest of Italian tragic poets, gave a political coluring and wrote with an impassioned eloquence well loved by Italian audiences. The writer of the first Italian comedy is proposed by Italian comedy is nknown, but Ludovico Ariosto (1474-533) was the first master, writing schol-irly comedy in blank verse with a dactylic ending to the line. The comic dramatists of the 17th century had to struggle against competition of the musical drama, the popular farcical entertainments, and those ntroduced in imitation of Spanish exam-ples, and had practically fallen into decay when its reform was undertaken by C. Foldoni (1707-93). He drew his char-icters from real life and sought to im-prove the ethical status of the drama. Foldoni remained for long the model in talian comia and Among medican writers

Spain is the only country of Europe which shares with England the distinction of having achieved at an early date a national form of the Spanish drama was J. de la Enzina whose correspondence on the state of the Spanish drama was J. de la Enzina whose correspondence were drawn. Enzina, whose representaciones were dra-natic dialogues of a religious or pastoral haracter. The first of the great writers vas Cervantes (1547-1616), but his plays isplay ignorance of the laws of dramatic

nere producing, Eugene Brieux was the though through his followers Spain soon only one who secured an assured position became possessed of a dramatic literature became possessed of a dramatic interactive of enormous quantity. P. Calderon de la Barca (1600-81) was the most brilliant of this school. At the end of the 17th century with the decline of the power of Spain, the national literature, too, fell

into decay.

Of the great European countries, Germany, at least until modern times, contributed little to the development of the drama, except through criticism. At the close of the Sturm und Drang period, there was a wealth of sentimental production of which Schiller's early drama, The Robbers, is characteristic. Schiller in his later work and Goethe stood upon a different level, and Goethe's Faust is one of the masterpieces of world literature. the masterpieces of world literature. In the modern period a strong naturalistic school developed, Hauptman, Sudermann and Wedekind achieving international fame along the lines laid down by Ibsen. The Norwegian dramatist, Henrik Ib-sen (1828-1906), has vitally influenced the whole course of the modern drama, making it the vehicle for a frank and fear-less delinestion of human nature. The

the whole course of the modern drama, making it the vehicle for a frank and fearless delineation of human nature. The appearance of Ibsen's satirical comedy, The Pillars of Society in 1877, of A Dolf's House in 1879, and of Ghosts in 1881 marked the beginning of a new era.

In England as in France the miracle, mystery and morality plays existed. The transition from the morality to the regular drama was effected by the intermixture of historical personages with abstractions, which led to the chronicle history, and by the introduction of types of real life. A further step in advance was taken by John Heywood in the 16th century, who wrote 'interludes,' short farces in the French manner. Pageants had flourished in England from early times, and the masque, another form of spectacular dramatic entertainment, was introduced from Italy. In the earliest extant English tragedy, however, Gorboduo, first acted January 18, 1562, before Queen Elizabeth, the direct influence of Seneca and the classical traditions may be seen, although the subject is wholly British. Of the classical traditions may be seen, although the subject is wholly British. Of the chronicle histories The Famous Victories of Henry the Fifth, known to have been acted before 1588, may be mentioned. Latin comedies had been performed in the natic dialogues of a religious or pastoral atin comedies had been performed in the natic dialogues of a religious or pastoral or in English versions as early as haracter. The first of the great writers vas Cervantes (1547-1616), but his plays lisplay ignorance of the laws of dramatic is claimed to be the earliest extant Engonstruction and their action is episodical. It was for Lope de Vega (1562-1635) to stablish permanently the national forms Gammer Gurton's Needle, printed in f the Spanish drama. In variety and ertility of production he has no rival, such beginnings the Elizabethan drama

Draughts

grew. Through the hands of Lyly, Kyd, audacious satires. Further may be men-Marlowe, Peele and Greene it passed to Shakespeare and other contemporaries. Rhymed couplets had given way to blank of James Barrie, whose delightful humor verse, and the foundations of historical and other drama well laid. The great relieves the seriousness of the English and other drama well laid. The great stage; of Stephen Phillips, whose poetic brilliant period in all dramatic history, are Shakespeare, Marlowe, Jonson, Peele, Greene, Webster, Massinger, Middleton, of the writers of the Irish National Thea-Heywood, Beaumont and Fletcher, Ford, and Dekker. The drama spent itself in about a century, and after the period of Puritan ascendency, it was French models rather than English that appealed to writers. 'Heroic' plays, written in rhymed couplets were introduced. This form was followed by Dryden, Otway, though Dryden later returned to blank verse. Congreve (1670-1729) and Vanbrugh (1666-1726) carried this newer English comedy to its highest development, and the plays of Congreve are still written with an expet to the writers of the Irish National Theacteristic of the French school. Denman Thompson in The Old Homework of locality studies; Clyde Fitch in a wide variety of plays scored still greater successes. William Gillette, Charles Klein, and David Belasco are noted both as stage producers and as playwrights. William Goulers artistic pre-

to some extent corrected by T. w. house, son (1829-71) and his disciple H. J. No history of the modern grams work Byron. The advent of Sir Henry Irving at be complete without mention of the work the Lyceum Theater in 1878 made for the of Gordon Craig, who has inaugurated a the production of plays, movement for a new and impressionistic the Lyceum Theater in 1878 made for the improvement of the production of plays, and though complaint was frequently made that he did not encourage modern dramatists, he did produce Tennyson's Queen Mary, The Falcon, The Cup, and Becket. In 1878 appeared the first of Sir Arthur Pinero's plays and ten years later he held an assured position as an original and fertile dramatist of no small literary power. Henry Arthur Jones was still known as little more than an able melodramatist, though Saints and Sinners. moral problems and a freer technique. player succeeds in moving a piece to the The Independent Theater, which was one further end of the board (the crown-of the theaters introducing Ibsen, produced in 1892 George Bernard Shaw's has the power of moving or capturing di-Widowers' Houses. The author soon agonally backwards or forwards. When gained wide popularity by his clever and it so happens that neither of the players

the Restoration drama, however, was so and David Belasco are noted both as stage licentious that a later age would not tolerate it.

Comedy received new life through the Vaugn Moody produced in The Gross Comedy received new life through the Sheridan (1751-1816) the true comedy of Sheridan (1751-1816) the true comedy of manners was restored. The early nine-teen'h century produced little of note except literary dramas such as Shelly's of Harvard, where through Professor Cenci. In general the theatre lacked ideas and contact with life. These faults were on the literary as well as the dramatic to some extent corrected by T. W. Robertson (1829-71) and his disciple H. J.

system of stage setting, and Max Reinhardt, who, as director of the *Deutches Theater*, Berlin, has evolved an artistic drama of spectacular and emotional ap-

peal.

Draughts (drafts), a game resembling chess in being played on a board divided into sixty-four checkered squares. Each of the two players is provided with twelve pieces or 'men,' melodramatist, though Saints and Sinners placed on every alternate square at each had made some attempt at a serious study end of the board. The men are moved of provincial life. The later works of both forward diagonally to the right or left Pinero and Jones and Oscar Wilde's brilliant comedies recalled the writers of the Restoration, and established anew the men, or to hem them in so that they originality and force of the English drama. Meantime the production of Ibsen's plays only when the square on the diagonal in England had shown a new approach to line behind it is unoccupied. When a moral problems and a freer technique.

as sufficient advantage in force or osition to enable him to win, the game of the game. The first menon of the game is in 1551.

Tave, or Drau (drave, drou), an European river which rises in overlands of the south of Styria and the south of Styri yrol, flows E. S. E. across the north of llyria and the south of Styria, and beweven, the term has a wider significance of nearly 400 miles joins the latter and savigable for about 200 miles. It is avigable for about 200 miles.

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It i Drawbridge (dra'brij), a bridge with are more or less completely wrought out with different colored crayons. Drawbridge a lifting floor, such as were formerly used for crossing the litches of fortresses, or any movable bridge over a navigable channel where height of the roadway is insufficient of allow vessels to pass underneath. Modern drawbridges across rivers, anals, the entrances of docks, etc., are enerally made to open vertically, and he movable portion is called a bascule, halance, or lifting bridge; a turning, swivel, or swing bridge; a turning, swivel, or swing bridge; or a rolling bridge, in accordance with the mode in which it is made to open. Swing bridges are usually divided into two parts meeting in the middle, and each moved on pivots on the opposite sides of the channel, rolling bridges are suspended from a structure high above the water, and are propelled backwards and forwards by means of rollers.

Drawing (dra'ing) is the art of replace the forms of objects and their drawing is often veiled in the richness of the color. The Dutch of mannerism. David introduced again is building others from 31,400 and 32,000 tons and a purer taste in drawing and a close tons. atudy of the antique, and these are qualities which distinguish his school

school excels in a careful and minute fect was to set the other nations to buildschool excels in a careful and minute lect was to set the other nations to build-style of naturalistic drawing, combined ing ships of the Dreadnought and super-with great excellence in coloring. The Dreadnought types, so that this huge French school in the time of Poussin was fighting machine was soon surpassed. very accurate in its drawing; at a later The United States, for instance, has period its style betrayed a great amount low afloat battleships of 27.500 tons and

(the so-called classical school) from the to the mind during sleep. The principal come so-caned classical school) from the to the mind during sleep. The principal romantic and eclectic schools of a later feature of the state of dreaming is the period. The drawing of the British absence of voluntary control over the school is naturalistic rather than academic. It has of late years much improved in accuracy and expressiveness. Drawing-room, a room appropriated the images that appear before the mental company; a room in which distinguished the dreamer. Occasionally, however, incompany; a room in which distinguished the dreamer. Occasionally, however, inpersonages hold levees, or private persons receive parties.—Court drawing-which would be difficult to surpass in the rooms are those assemblies held from waking state. It is said that Condillac time to time for the reception or presentation to the sovereign of such ladies as dreams reasonings on which he had been by custom, right, or courtesy are admissible. Gentlemen are not expected Franklin believed that he had been often unless in attendance on the ladies of instructed in his dreams concerning the state formilies. The governing sometimes issue of events which at that time occutheir families. The sovereign sometimes issue of events which at that time occudeputes a member of the royal family to pied his mind. Coleridge composed from receive, in which case presentations are equivalent to those made to the sovereign in person.

We have the solution of the royal family to pied his mind. Coleridge composed from the equivalent to those made to the sovereign in person. eign in person.

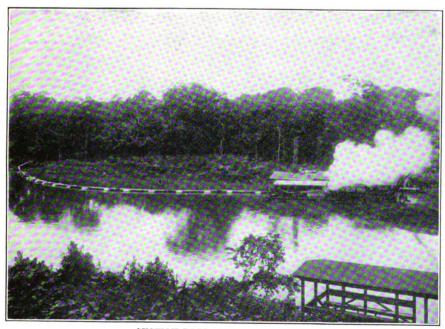
Drayton (dra'ton), Market, or Drayton (dra'ton), Miles a church, causes. They generally take their rise and character from external bodily impressions, or from something in the pressions, or from external bodily impressions, or from something in the pressions, or from something in the pressions

chiefly remembered is his Polyalbion, a sort of topographical description of England. It is generally extremely accurate in its details, with, at the same time, many passages of true poetic fire and beauty. Other works are his Nymphidia, rial on board scows for removal. The the Court of Fairy; the Barons' Wars; mechanical, power-operated dredges are the Legend of Great Cromwell; the Barons' wars in mechanical, power-operated dredges are the Legend of Great Cromwell; the of several forms. One of the most combattle of Agincourt; besides numerous of a pair of large, heavy iron jaws, hinged ton was made poet laureate in 1626. He at the back, in general form resembling a died in 1631, and was buried in Westminster Abbey.

Dreadnought (dred'nat), a British battleship bu ilt in operation it is lowered with open jaws, buttleship bu ilt in 1906, which attracted the attention of ground that is to be excavated. Traction the world by its great size (17,900 tons), is then made on the chains controlling intended to surpass the ships of any the jaws, which close; the grapple is other nation. As it proved, its only ef-



LADDER DREDGE, PANAMA CANAL



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SUCTION DREDGE, PANAMA CANAL

The upper view shows a ladder dredge, which operates by means of buckets on a continuous chain, dipping the contents of the buckets into the scow which lies alongside. The lower view shows a suction dredge, which operates on soft mud or sands, pumping the discharge through the pipe seen at the left of the illustration. The pipe may be carried to any desired point and used for filling.

discharged into scows alongside the dredge. The dipper dredge, an exclusively American type, has a bucket rigidly attached to a projecting timber arm. In of the river Elbe, which is here spanned operation the bucket is lowered and made by three stone bridges. It is first mentional control of the river time.

and overrode every sentiment of humanity respecting him. Thenceforth the settle-ment of the slavery question drifted to-

operation the bucket is lowered and made to take a curving upward cut, thus diptioned in history in 1206, and has been ping up the bottom material, which is distharged through the hinged bottom of the bucket. The pump or suction dredge operates by means of a flexible pipe connected with a powerful centrifugal pump. The pipe is lowered into contact with the bottom to be excavated and the material besides several of the churches, are the bottom to hopper barges or into a buildings called the Zwinger), a beauti-hopper-well in the dredge itself. The full buildings containing a famous picture center ladder bucket dredge, of which an illustration is given, operates by means ese Palace (Augusteum), containing the center ladder bucket dredge, of which an gallety and other transities, the Sapah-illustration is given, operates by means ese l'alace (Augusteum), containing the of an endless chain of buckets moving royal library of from 300,000 to 400,000 over an inclined plane, which in structure volumes, besides a rich collection of manof an endless chain of buckets moving royal library of from 300,000 to 400,000 over an inclined plane, which in structure is a strong iron ladder, one end of which is lowered to the sea bottom. The steel buckets scoop up the material at the bottom of the ladder, which they then ascend, and are discharged by becoming inverted at the upper end of the ladder. This dredge is the only one found satisfactory in excavating rock.

Dred Scott Case, a famous case before the United States Supreme Court, the decision in which, delivered by Chief Justice Taney, March 6, 1856, awakened intense interest and led to serious results. The plaintiff, Dred Scott, was a slave in Missouri, his owner took him to Illinois, of Music, the Academy of Fine Arts, etc. and also to Minnesota, then a territory, both free soil regions, where he kept him for years, afterwards moving back to Missouri, a slave state. The plea of Scott was that his residence in Illinois and Minnesota made him a free man. The decision was that he was a chattel, 'without rights or privileges except such as glory of Dresden is the gallery of pictures are not unimportant, and are various in character; the china, has greatly increased since the development of the railway system. The chief out rights or privileges except such as glory of Dresden is the gallery of pictures are not unimportant. decision was that he was a chattel, 'without rights or privileges except such as glory of Dresden is the gallery of picthose who held the power and the government might choose to grant him.' The decision nationalized slavery by degrading the slave to the level of a horse or a plore. of Saxony, but owes its most valuable treasures to Augustus III, who purchased and overrode every sentiment of humanity respecting him. Thenceforth the settlement of the slavery question drifted towards armed arbitrament.

Drenthe (dren'te), a province of Holicures number about 25,000, and in particular comprise many fine specimens, 1030 square miles. It is in general schools. Besides this fine collection the more elevated than the surrounding provinces, especially in the center. The more elevated than the surrounding drawings amounting to upwards of 350, soil is generally poor, and the surface largely consists of heath and morass, but of casts exemplifying the progress of the province is famed for its horses and cattle. Drenthe is remarkable for the province is famed for its horses and cattle. Drenthe is remarkable for the province of all the most important number of so-called 'giants' graves' or barrows scattered over the country. Its capital is Assen. Pop. 149,551.

mer resort of many foreigners. It suf- formerly recognized as distinct forma-fered severely in the Thirty Years' war, tions. and also in 1813, when it was the head- **Drift** in mining, the course or direcand also in 1813, when it was the head-quarters of Napoleon's army. It was occupied by the Prussians in 1866, but a passage between two mine shafts.

presden. The manufacture resulted from an accidental discovery made by Bött-considerable dimensions, often forming ger, a young chemist, in 1710, and the vases, statuettes, groups of figures, candelabra, clocks, etc., manufactured during the eighteenth century are highly prized.

To manufacture resulted from ually accumulates until the heaps attain considerable dimensions, often forming dunes or sand-hills.

Drill, a tool used for boring holes in wood, metal, stone, ivory, etc. It consists of a sharp tool to which a prized.

during the eighteenth century are highly prized.

Drew, John, a popular American steel, etc., a latthe driven by steam is 1825; died in 1862. He became manager of the Arch Street Theater of Philadelphia, which after his death was long managed by his widow, Louisa Drew (1820-1897). For a generation she stood high among comedy actresses, her greatest part being 'Mrs. Malaprop' in The Rivals.—Their son, John Drew, born in 1853, has long been a successful comedian.

Drexel (dreks'el), Anthony J., born in Philadelphia, eight.

comedian.

Drexel (dreks'el), Anthony J., banker, born in Philadelphia, Pennsylvania, in 1826; died in 1893. He became the head of the prominent banking house of Drexel & Co., and in 1891. Which a soldier or sailor is founded the Drexel Institute of Art, Science and Industry, a prominent educational institution of Philadelphia.

Dreyfus (draf'us), Alfred, a Jewish captain in the French army who was arrested in 1894, on the charge of furnishing to a foreign government documents which he had copied at the Ministry of War. He was condemned in acceptation of French Guiana. As he had seemingly been victured in the palms of the hands and soles of the feet are also naked and of a deep copper color.

Drilling (dril'ing), the plan of sowing in parallel rows as discase excited world-wide attention and in-introduced into England by Jethro Tull, dignation. M. Emile Zola pleaded for a who published a work on the subject in new trial for Dreyfus, and was himself 1731. The crops which are now generally summoned before the Court of Assizes as drilled are turnips, onions, beans, peas, being guilty of anti-patriotic measures. carrots, various kinds of grain, flax, Dreyfus was retried by court-martial and etc. The first form of drill was of very again convicted in 1899, but was acsumple construction and was only quitted and rehabilitated by the Court of adapted for sowing one row at a time. Appeal, July, 1906.

Appeal, July, 1906.

Drift, in geology, a term applied to Drinking Fountain, an erection, often ornate conveyed by icebergs or glaciers and deposited over the surface of a country; and artistic, on or near a public thoroughvariously called Diluvium, Diluvial, Glafare or place of resort, for supplying cial, or Northern Drift, Boulder Formapeople, and sometimes also horses, dogs, tion, etc. Geologists now often use instead of Drift the terms stratified or unstratified Boulder Clay, which were not

was evacuated in the following spring. Drift Sand, sand thrown up by the Pop. (1910) 546,882. Dresden China, a delicate, semi-blown when dry some distance inland unfinished china made at Meissen, near other obstacles, round which it grad-Dresden. The manufacture resulted from unly accumulates until the heaps attain

Drilling (dril'ing), the plan of sow-ing in parallel rows as dis-Guiana. As he had seemingly been victurized to shield higher culprits, the tinguished from sowing broadcast. It was case excited world-wide attention and in- introduced into England by Jethro Tull,



Dripstone, Westminster Abbey.

various forms: sometimes a head is used as a termination or support, at others ornament or simple molding is adopted.

Driving-wheel, in machinery, a nicates motion to another or others; in railway locomotives the large wheel which is fixed upon the crank-axle or main shaft.

Drogheda (droh'e-da), an ancient town and seaport, and county of itself, formerly a parliamentary brough of Ireland, in the counties of Meath and Louth, on both sides of the Boyne, about 4 miles from the sea, 26 sue, or in different cavities of the body. miles north of Dublin. The Boyne is It receives different appellations accordince crossed by a railway viaduct of 18 ing to the particular situation of the arches and 95 feet high. Flax and cotfluid. When it is diffused through the ton spinning are carried on; there are cellular tissue, either generally or paralso saltworks, breweries and tanneries; tially, it is called ansacra; when it is and the fisheries are increasing. There denosited in the cavity of the cranium it

country. It has an important trade, particularly in salt, obtained from springs in the vicinity. Pop. 19,146.

exempted.

Droitwich

head of a doorway, window, archway, or England, in the county and 6 miles N. N. niche to throw off the rain. It is also and label famous for its brine springs, from which it is turned square. It is of salt has been manufactured for more than 1000 years. Pop. of town 4146.

Drôme (dròm), a southeast department of France, covered almost throughout by ramifications of the Alps, the a erage height of which, however, does not exceed 4000 feet; area, 2508 square miles, of which about one-fourth is waste, one-third under wood, and a great part of the remainder under tillage and pasture. A considerable exand a great part of the remainder under tillage and pasture. A considerable ex-tent of the area is occupied by vineyards, and several of the wines produced have a high reputation, especially Hermitage. Olives, chestnuts and silks are staple productions. Valence is the capital. Pop. (1906) 297,270.

Dromedary (drom'e-da-ri).

Camel.

Dromore (drō-mōr'), an episcopal city, Ireland, County Down, on the Laggan, here crossed by two bridges, 16 miles southwest of Belfast. Its cathedral contains the tomb of Jeremy Taylor. Pop. 2307.

Drontheim (dront'him). See Trondhjem.

arcnes and so reet nign. Fiax and cotton spinning are carried on; there are
cellular tissue, either generally or paralso saltworks, breweries and tanneries; tially, it is called anasarca; when it is
and the fisheries are increasing. There
deposited in the cavity of the cranium it
is a good export trade in cattle, sheep, is called hydrocephalus; when in the
grain, butter, eggs, etc. The town was
for a long time strongly fortified, and
when in the abdomen, asoites; in the
was taken by Cromwell with great
when in the abdomen, asoites; in the
uterus, hydrometra; within the scrotum,
slaughter in 1649; it surrendered to Wilhydrocele; and within the ovary, ovarian
liam III immediately after the battle of
the Boyne. Pop. 12,760

Trohobycz (dro-ho'bich), a town of
the kidneys are the most common Drohobycz Austria, in Galicia, 41 causes of general dropsy. The treatmiles s. s. w. Lemberg. Its Catholic ment often includes removal of the fluid church is one of the handsomest in the from the cavities containing it by tapping or puncturing; otherwise drugs which stimulate excretion by the skin, not the vicinity. Pop. 19,146.

Droit d'Aubaine (drwä-dō-bān), an cold rule in some European countries, by which the property of a deceased foreigner was claimed by the state, unless the defunct had a ish plant of the same genus as queen-of-special exemption. In France. where it was not abolished till 1819, the Scotch, hemlock dropwort, or water dropwort, sexempted.

Which stimulate excretion by the skin, bowels and kidneys are employed, but all remedies frequently prove ineffectual.

Dropwort (from the small tubers on the fibrous roots), Spiras filtendūla, nat. order Rosaceæ, a Brithendūla, nat. order R

(droit'ich), a town and Droseraceæ (dros-er-a'se-e), a nat. parliamentary division of exogenous plants, consisting of marsh

herbs, whose leaves are usually covered small quantity of water. Thus, a child with glands or glandular hairs. It conmay fall head downwards into a tub and tains six genera, including the sundew be drowned, though the tub is not half (drosčra), and Venus' fly-tray (Di-full of water, sufficient to cover the onwa). (See Sundew and Dionwa, mouth and nostrils being all that is They have no known qualities except necessary, and a man overcome by a fit that they are slightly bitter. The leaves or by drunkenness may fall on a road are generally circinnate in the bud, as with his head in a ditch or pool of water in ferns.

Therefore, (drosčki), a kind of light ing is thus due to suffection to the store. Drosky (dros'ki), a kind of light, ing is thus due to suffocation, to the stopby the Russians. It is not covered, and of water into the lungs. When death
in the middle there rises a sort of bench has been caused by drowning, the skin
placed lengthways on which the passen-presents the appearance called gooseplaced lengthways on which the passen-presents the appearance cancel governors ride as on a saddle; but the name skin (cutis anserina), the face and surism now applied to various kinds of face of the body generally are usually vehicles, as the common cabs plying in the streets of German cities, etc. the streets of German cities, etc.

Iungs and air-passages, and about the lips and nostrils; water may be found in the stomach, and clenched fingers, hold-a measure), an instrument for asceriaining the quantity of dew which falls. show that a struggle has taken place in the struggle ha taining the quantity of dew which falls. show that a struggle has taken place in It consists of a balance, one end of the water, and that the body was alive at which is furnished with a plate fitted to the time of immersion. Complete insenwhich is furnished with a plate fitted to receive the dew, the other containing a sibility arises, it is probable, in from one to two minutes after submersion, Drouais (dro-a), Jean Germain, a recovery, however, being still possible; considerable repute, born at Paris in minutes. So long as the heart continues 1763; died at Rome in 1788. His chief to beat, recovery is possible; after it pictures are The Canaanitish Woman at has ceased it is impossible. Newly born the Feet of Jesus, Dying Gladiator and Marius at Minturna.

December 1. Property of the time of immersion. Complete insension one to two minutes after submersion, recovery, however, being still possible; and death occurs in from two to five to beat, recovery is possible; after it pictures are The Canaanitish Woman at has ceased it is impossible. Newly born the Feet of Jesus, Dying Gladiator and mersion longer than the more fully

Marius at Minturna.

Drouet (drò-ā), Jean Baptiste, Comte d'Erlon, French general, born in 1765; died in 1844. He served in the campaigns of the Moselle, Meuse and Those of Dr. Sylvester, recommended by Sambre (1793-96), in the Peninsula, and at Waterloo, where he commanded was governor-general of Algeria, and in 1843 was made a marshal.

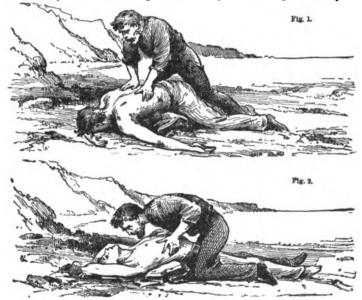
Brouyn de Lhuys (drò-an de lwēs), the following steps must first and immediately be taken: Full the body up on medical assistance, warm blankets, dry french statesman and diplomatist; born clothing, brandy and hot water. if any in 1805; died in 1881. He entered the one is at hand to send. No delay diplomatic service in 1831, and was charge d'affaires at The Hague during the events which led to the separation of Belgium from Holland. In 1840 he was head of the commercial department under the person, so that if only one person is events which led to the separation of Belgium from Holland. In 1840 he was head of the commercial department under the more fully grown.

For the restoration of the apparently drowned, several methods are suggested. Those of Dr. Sylvester, recommended by the English Humane Society, and Dr. Benjamin Howard, of New York, will be the following steps must first and immediately be taken: Full the body up on medical assistance, warm blankets, dry immediately for medical sassistance, warm blankets, dry suggested.

Those of Dr. Sylvester, recommended by the English Humane Society, and Dr. Benjamin Howard, of New York, will be the following steps must first and immediately be taken: Full the body up on medical assistance, warm blankets, dry significant to service in satisfaction of the commercial department under the neck minister of foreign affairs. Opposition and chest. Fold the articles of dress reof the commercial department under the minister of foreign affairs. Opposition and chest. Fold the articles of dress reto Guizot caused his dismissal in 1845. moved so as to make a firm pillow. He became minister for foreign affairs in which is to be placed under the ahould-1848, ambassador to London in 1849; ers, so that the upper part of the body and again foreign minister in 1851 and is slightly raised and the head slightly in 1863. On the fall of the empire he field to Jersey, but subsequently returned to France.

Drowning (droun'ing) is due to the breathe are made, try to stimulate them by brisk rubbing of the sides of the chest ing the lungs, owing to the mouth and of the face. If no effort to breathe ing the lungs, owing to the mouth and and of the face. If no effort to breathe nostrils being immersed in a liquid the is made, proceed to produce the entrance liquid being commonly water. Beath and outflow of air from the lungs by may, therefore, occur by drowning in a Sylvester's or Howard's method.

Sylvester's method: Stand or kneel behind the person's head, grasp each arm at the elbow, draw both arms simultaneously upwards till they are extended in line with the body, as a man places them the stretches himself. Let this thrown leaning forward. This enlarges movement occupy about 2 seconds. This the cavity of the chest and causes air to enlarges the chest and causes the enter. When the ribs have been raised trance of air to the lungs. Without a to the utmost extent, with a slight effort pause carry the arms down to the sides, making them overlap the chest a little, and firmly press them on the chest. This movement should occupy another 2 seconds. It expels air from the lungs. Repeat the process 15 times a onds. It expels air from the lungs. Repeat the process 15 times a minute. One person will find it more easy to maintain this method for a prostendily and patiently at the rate of 15 longed period than Sylvester's, especially times a minute, until breathing has if the patient be big and heavy. Sylvester's method: Stand or kneel be- lower part of the chest, so that the



Howard's Method for Restoring the Apparently Drowned.

the arm as shown in Figure 1. Pull the hot coffee, etc., and use every effort to body over the roll of clothing to expel water from the chest. Then turn the body on the back, the shoulders being supported as shown in Figure 2. Kneel over person executed by drowning in Scotland the body. Place both hands on the suffered death in 1611. In Ireland there

Howard's Method for Restoring the Apparenty Drowned.

been fully restored, or until medical aid Meanwhile, if other persons are presarrives, or until death is certain. An ent, they should be occupied in rubbing hour is not too long a time to persist, the body and limbs (always upwards) and so long as there seems the least effort with hands or warm flannel, applying to breathe the efforts must be persevered hot flannels, bottles, etc., to the limbs, in.

feet, armpits, etc. As soon as the persuance of the store with the roll of clothing under swallow, give small quantities of hot the store of the the stomach; the head being supported on brandy and water, hot wine and water,

cashire, 3½ miles E. of Manchester, of Druids, THE ORDER OF, friendly socie-which it is practically an outlying suburb. It has cotton factories. Pop. of 'Druids' founded in London for mutual

a French moralist and historian; born at Besançon in 1773; died in 1850. In 1806 he published an Essai sur l'Art In 1000 ne puonsned an Essas sur l'Art d'être Heureux, which was very popular; and in 1823 De la Philosophie Morale, ou des Différents Systèmes sur la Science de la Vie, which procured his admission into the Academy. His reputation is, however, founded chiefly on his Histoire du Règne de Louis YVI

Histoire du Règne de Louis XVI.

Droz (drō), Pierre Jacquer, a Swiss mechanician, born at Chaux-de-Fonds in 1721; died in 1790. Among his father, and constructed an automaton, representing a young woman, which played different tunes on the harpsi-

Drugs, a general name for any sub-mineral, used in the composition or preparation of medicines; also applied to ingredients used in chemical preparations employed in the arts.

Druids (dro'ids), the priests of the Celts of Gaul and Britain. According to Julius Cæsar, they possessed the greatest authority among the Celtic nations. They had some knowledge of secondary, natural philosophy, etc., suscene of a skirmish between Claverhouse perintended the affairs of religion and and the Covenanters, in which the formorality, and performed the office of judges. They venerated the mistletoe when growing on the oak, a tree which they likewise esteemed sacred. They had a common superior, who was elected by a majority of votes from their own number, and who enjoyed his dignity for they make in the water. They usually life. They took unusual care to fence themselves round with mysteries, and it is probable that they cherished doctrines unknown to the common people; but whose duty it is to teach and direct the

was an execution by drowning so lately as 1777.

Troylsden (droilz'den), a local board district in England, Landoctrines little is known.

(1911) 13,259.

Droz (dro), Francois Xavier Joseph, a great number of lodges or 'groves,' established for the mutual benefit of the members. They adopt a system of ceremonies professedly based on Druidical traditions. The order has extended to America, Australia, Germany, etc. A 'grove' was established in New York in 1833, and from this the order spread rapidly through the United States. From the past officers was organized a supreme body entitled 'Grand Grove of the United States of the United Ancient Order of the Druids,' which declared its independence of the British Supreme Fonds in 1721; died in 1790. Among his independence of the British Supreme many contrivances were a compensation Grove and made an entire change in the pendulum, a writing automaton, and ritual, adding a number of new degrees. an astronomical clock.—Hensi Louis Drum, a musical instrument of per-Jacquer, son of the preceding, born in 1752 at Chaux-de-Fonds; died at Naples either cylindrical or hemispherical in 1791; followed the same line as his shape, with the end or ends covered with the total constructed an automatom tightend perchange. tightened parchment, which is stretched representing a young woman, which or slackened at pleasure by means of played different tunes on the harpsi-cords with sliding knots or screws. chord, and a pair of artificial hands for Drums are of three kinds: (1) the long chord, and a pair of artificial hands for Drums are of three kinds: (1) the long a young man who was mutilated, by means of which he was enabled to perform most of the necessary offices for himself.

Drugget (drug'et), a coarse kind of woolen felt or cloth, formerly used by the lower classes for purposes of clothing, but now chiefly used as a covering for carpets.

Drugs, a general name for any subtuned to the keynote, and the other to mineral, used in the composition or prepared.

Drum, in machinery, a short cylinder revolving on an axis for the purpose of turning wheels or shafts, etc., by means of belts or bands passing round it.

Drumclog (drum-klog'), a moorland tract in Lanarkshire, Scot-They had some knowledge of land, 6 miles s. w. of Strathaven, the natural philosophy, etc., su-scene of a skirmish between Claverhouse

unknown to the common people; but whose duty it is to teach and direct the

Drummond

drummers. He marches at the head of the Dunghill, a macaronic poem; and the band carrying the regimental baton. History of the Lives and Reigns of the Drummond (drum'mund), HENRY, Five Jameses, Kings of Scotland. As biologist and theologian, an historian he is chiefly remarkable for was born at Stirling, Scotland, in 1851; an ornate style, and a strong attachdied in 1897. In 1877 he became lecturer, ment to the High Church principles of and in 1884 professor of natural science in the Free Church College of Glasgow. His book Natural Life in the Drummond Light, a very intense prow.

ence in the Free Church College of Glasgow. His book, Natural Life in the Spiritual World, an effort to reconcile by turning two streams of gas, one of oxygen the doctrines of Christianity and evolution, excited great attention and was of ignition upon a ball of lime. This very widely read. Other works were the World, Tropical Africa, etc.

Drummond, Thomas, the inventor of the lime-ball light known by his name, was born at Edinor burgh in 1797; and died at Dublin in 1840. He was educated at Edinburgh as an engineer. In 1819 he became assistant to Colonel Colby in the trigonometrical survey of Great Britain and first used the light which bears his name about 1825 during the survey of Ireland. about 1825 during the survey of Ireland. He subsequently entered political life, and became in 1835 under-secretary for Ireland, a county which he practically ruled with the utmost success for five

tinguished for the elegance and tenderness of his verses, was born at Hawthornden House, 7 miles from Edinburgh, in 1585; died in 1649. He was educated at remove the recusant ministers from their the University of Edinburgh; after which he spent four years in foreign travels, residing for a part of the time at Bourges, to study the civil law. On his return to Scotland he retired to Hawthornden and gave himself up to the cultivation of poetry and polite literature, and here he spent the most of his life. He entertained Ben Jonson for three weeks on the occasion of a visit which the English dramatist made to Scotland in the winter of 1618-19, and took notes of the winter of 1618-19, and took notes of Jonson's conversation, which were first published in 1711. He was the first Scottish writer to abandon the native dialect for the language raised to supremacy by the Elizabethan writers. His chief productions are: The Cypress Grove, in prose, containing reflections upon death; Flowers of Zion, or Spiritual Poems; Tears on the Death of Mæliades (that is, Prince Henry); Poems, Amorous, Funereal, Divine, Pastoral, in Sonnets, Songs. Sextains, Madrigals; The River Forth Feasting (on King James' visit to Scotland in ner hardens like a berry while the inferior form of the Battle with a kernel, as the plum, cherry, aprithe winter of 1618-19, and took notes of outer part of the pericarp becomes fleshy

Drummond Light, a very intense

1)runkenness is no excuse for any crime, but it renders a contract invalid if either of the parties was in a state of complete drunkenness when the contract was signed.

Drummond, William, of Hawthorn-den, a Scottish poet dis-tinguished for the elegance and tender-under its powers as representing the estates between sessions, met at Glasgow





cot and peach. The stone enclosing the tribune of the people, and was assassikernel is called the endocarp, while the nated in B.C. 91.—Nero Claudius, brother pulpy or succulent part is called the of the Emyeror Tiberius, born in B.C. 38. mesocarp. In some fruits, as those of By a series of brilliant campaigns he the almond, the horse-chestnut and cocoaextended the Roman empire to the Gernut, the mesocarp is not succulent, yet, man Ocean and the river Elbe, and was from their possessing the other qualities hence called Germanicus. By his wife of the drups than receive the news. The Antonia daughter of Mark from their possessing the other qualities of the drupe, they receive the name. The date is a drupe in which the hard stone or endocarp is replaced by a membrane. Drury Lane Theater, one of the principal theaters in London, was established in the reign of James I. In 1671 it was burned down, and was rebuilt by Sir Christopher Wren between 1672 and Each particular tree or wood was the 1674, but again consumed in 1809. On this occasion it was rebuilt by B. Wyatt, and was reopened on October 10, 1812, with an address composed by Lord Byron. pupi of Linnæus, born in 1748; died in L. with the constitution of the settled in E.C. 9.

Dryad (dri-ad), a wood nymph, in the Greek mythology. They were supposed to be the tutelar deities of trees. About a proposed was the habitation of its own special dryad.

Dryander (dre-an'de'r), Jonas, a Swedish naturalist and with an address composed by Lord Byron. pupi of Linnæus, born in 1748; died in It was in connection with this opening that James and Horace Smith wrote the Rejected Addresses. Nearly all the great English actors from Betterton and Garrick have been more or less connected with Drury Lane.

with Drury Lane.

Druses (drū'zes), a curious people of mixed Syrian and Arabian origin, inhabiting the mountains of Lebanon and Anti-Lebanon, in whose faith are combined the doctrines of the Pentateuch, part of the tenets of Christianity, the teachings of the Koran, and the Sufi allegories. They describe themselves as Unitarians and followers of Khalif Hakim Biamr-Allah, whom they regard as an incarnation of deity, the gable, the gable of the south transeptor and the founder of the true religion. They are nearly all taught to read and write; but are exceedingly turbulent, their conflicts with their neighbors the Maronites having often caused much trouble to the Turkish government. Their total number (exclusive of women and children) has been estimated at from and children) has been estimated at from 70,000 to 70,000.

Drusilla (drū-zil'a), a daughter of Herod Agrippa I, king of the Jews. She was borr in A.D. 38; married Azizus, king of Emesa, whom she divorced in order to marry Felix, procurator of Judea. She is thus the Drusilla who is the Acts and was probable. mentioned in the Acts, and was probably present when Paul preached before Felix. Drusus (drū'sus), the name of several distinguished Romans, among whom were:—MARCUS LIVIUS, orator and politician; became tribune of the people in 122 B.C. He opposed the policy of Caius Gracchus, and became popular by planting colonies.—MARCUS
LIVIUS, son of the above, was early a
strong champion of the senate or aristocratic party, but showed great skill in manipulating the mob. He rose to be Dryden

Antonia, daughter of Mark Antony. he had a daughter, Livia, and two sons, Germanicus and Claudius, the latter of whom afterwards became emperor. He died in B.C. 9.

supposed to be the tutelar deities of trees. Each particular tree or wood was the habitation of its own special dryad.

Dryander (dre-ån'd er), Jonas, a Swedish naturalist and pupil of Linnæus, born in 1748; died in 1810. He settled in Engiand in 1782, and was connected with the Royal and Linnæan societies till his death.

Dryandra (dre-an'dra), named from the S we dish naturalist Dryander, a genus of Australian shrubs,



John Dryden. (dri'den), John, an English poet, was descended from an

ancient family, his grandfather being and the following is a brief abstract of Sir Erasmus Dryden, of Canons Ashby, the results:

Northamptonshire. He was born near In defining the term dry farming it is Aldwinkle. Northamptonshire, in 1631, and was admitted a king's scholar at deep plowing before the rainy season sets Westminster under the celebrated Dr. in, in order to provide in the soil a Rushy whence he want to Trinity especies were to recovery and the soil as the season sets. Busby, whence he went to Trinity College, Cambridge. In London he acted as secretary to his cousin, Sir Gilbert Pickering, a favorite of Cromwell; and on the death of the Protector wrote his Heroic Stanzas. At the Restoration, however, he hailed the return of Charles II in Astræa Redux, and from that time his devotion to the Stuarts knew no decay. In 1661 he produced his first play, The Duke of Guise. This was followed by a number of others until the great fire of London put a stop for some time to theatrical exhibitions. In the interval Dryden published the Annus Mirabilis, an historical account of the events of the year 1666, one of the most elaborate of his productions. In 1668 he also published his celebrated Essay on Dramatic Poesy—the first attempt to regulate dramatic writing. Dryden was shortly afterwards appointed to the omces of royal historiographer and poet laureate. He now became professionally a writer for the stage, and produced many pieces, some of which have been strongly censured for their licentiousness. The first of his political and poetical satires, Absalom and Acitophel (Monmouth and Shaftesbury) was produced in 1681. On the accession of James in 1685 Dryden became a Roman Catholic, and 1681. On the accession of James in 1685 retain the snow upon the land, especially Dryden became a Roman Catholic, and defended his position in a poem, The Hind and the Panther. At the Revolution he was deprived of his office and rough after the late fall plowing, by income. During the remaining ten years throwing up borders across the field at of his life he produced some of his best right angles with the prevailing winds, or works, including his admirable translations from the classics. His poetic translation of Virgil appeared in 1697, and, soon after, that masterpiece of lyric under dry-farming conditions than is used poetry, Alexander's Feast, his Fables, etc. He died May 1, 1700, and was the smaller should be the amount of seed buried in Westminster Abbey. Dryden is unequaled as a satirist among English is unequaled as a satirist among English is unequaled as a satirist among the same poets, and the best of his tragedies are poets, and the best of his tragedies are used in bleaching, dyeing and laundry especially and same since written. His used in bleaching, dyeing and laundry especially of two concentric

deep plowing before the rainy season sets in, in order to provide in the soil a capacious water storage reservoir and an ample space for root development; light, deep, even seeding or planting in a well-prepared, moist soil; (3) frequent, thorough, level cultivation before as well as after sowing or planting; (4) the use of seed bred and selected for the conditions prevailing; (5) the use of machinery of large capacity; (6) the adoption of methods for the concentration of crops.

Crops must be selected or developed that will fit the environment, and there is ample field for investigation in the improvement and development of crops suitable to dry lands. Wheat stands at the head among cereal crops. The durum or macaroni wheats do especially well; but other varieties are also grown, as are oats, rye, barley and spelt. The millets are among the best-paying dry-farming crops. There are few legumes that have offices of royal historiographer and poet shown value on dry lands, but peas, beans

shown value on dry lands, but peas, beans and alfalfa are the most promising of development. Vegetables and both shade and fruit trees are being grown in districts where dry farming is practiced.

Fall seeding of cereals, wherever the conditions will permit, is preferable to spring seeding, and it is important to retain the snow upon the land, especially in sections where it forms the chief part of the total precipitation. The snowfall may be retained by leaving the ground rough after the late fall plowing, by throwing up borders across the field at right angles with the prevailing winds, or

Drying Machine (dri'ing ma-shen), a machine unsurpassed by any since written. It is used in deaching, dyeing and ladding espectry as a whole is more remarkable for tablishments, consisting of two concentric vigor and energy than beauty, but he did drums or cylinders, one within the other, much to improve English verse. He was open at the top, and having the inner cyllads an admirable prose writer. In character he was modest and kindly.

The goods to be dried on the goods to be dried and the control of the goods to be dried and the control of the goods to be dried. Dry Farming, a method of farming are placed within the inner cylinder, and and coming into ever wider use. The great velocity, when, by the action of United States Department of Agriculture through its experiment stations has made through the holes in the side.

a careful study of the conditions, possibilities and limitations of the practice, Drying-oil, the name given to linseed bilities and limitations of the practice,

been heated with oxide of lead; they are ing has to be done in soft stone or coal; the bases of many paints and varnishes, but in hard rock dynamite is preferable.



When exposed to the air they absorb oxygen, and are converted into a transparent, tough, dry mass or varnish.

Dualism (dual-izm), the philosophical exposition of the nature of things by the hypothesis of two dissimilar parent, tough, dry mass or varnish.

Dryobalanops (drI-o-bal'an-ops).

See Camphor.

Dryophis (drI'o-fis), a genus of nonvenomous tree serpents.

Dry Pile, a form of the ordinary voltance, as paper which has been moisted dry, chiefly useful in the construction of electroscopes of great delicacy.

Dry Point, a sharp-pointed instrument assurance of the existence of great delicacy.

Dry Point, used by engravers to incise fine lines in copper without the plate being covered with etching ground or the lines bit in by acid. This tool is true transcripts of the originals, or rather much employed in working the more of the qualities in the derived from each other. Dualism in religion is chiefly confined to the adoption of a belief in two fundamental beings, a good and an evil one, as is done in some Oriental revisions, especially that of Zoroaster. In metaphysics, dualism is the doctrine of those who maintain the existence of those who maintain the existence of spirit and matter as distinct substances, in opposition to idealism, which maintains that we have no knowledge or assurance of the existence of anything is may correspond with realism in maintaining that our ideas of things are the lines bit in by acid. This tool is being covered with etching ground or maintaining that our ideas of things are the lines bit in by acid. This tool is true transcripts of the originals, or rather much employed in working the more of the qualities inherent in them, the delicate portions of plates produced as spirit acting as a mirror and reflecting their true images or it are all the contents.

delicate portions of plates produced as spirit acting as a mirror and reflecting their true images or it may hold that, although produced by outward objects, we have no assurance that in reality these various species of fungi, the mycelium of which penetrates the timber, destroy-or even that they produce the same idea in the most common and most formidable dry rot fungus in Britain, found chiefly in firewood; while Polyporus destructor has the same preëminen new for years published in Philadel-phia an influential Democratic paper, the same preëminen 1803 and practiced in Philadelphiannence in Germany. Damp, Tard, whose last will be wrote. After nence in Germany. Damp, rard, whose last will he wrote. After serving in the Pennsylvania legislature. lacrymans).

lacrymans).

uations are most he was in 1833 appointed Secretary of favorable to the development of dry rot the Treasury by President Jackson, who soon after ordered him to remove the posed for the prevention of dry rot; deposits of public money from the Bank that most in favor is thoroughly saturating the wood unfit for vegetation.

Dual (dû'al), in grammar, that number which is used, in some languages, to designate two things, while another number (the plural) exists to express many. The Greek, Sanskrit Louis XV, was born at Vaucouleurs in and Gothic of ancient languages, and the Lithuanian and Arabic of modern, poson an immoral course, and was presented

and Gothic of ancient languages, and the 1746. She came young to Paris, entered Lithuanian and Arabic of modern, possons on an immoral course, and was presented seess forms of the verb and noun in which to the king in 1769, who had her married two persons or things are denoted. The for form's sake to the Count du Barry. Anglo-Saxon wit ('we two') and wit She exercised a powerful influence at court, and with some of her confidants of about twenty parts of a mixture offices and privileges were in her gift, of about twenty parts of saltpeter, and the courtiers abased themselves bethirty parts of fine dry sawdust and fore her. After the death of Louis she fifty parts of nitroglycerine. It has was dismissed from court and sent to advantages over gunpowder where blast-

Du Bartas Dublin

ceived a pension from Louis XVI. During the reign of terror she was arrested as a royalist and executed, November, 1803.

Du Bartas (dū-bār-tā), G UILLAUME but the restoration being carried on by Du Bartas (dū-bār-tā), G UILLAUME but the restorations being carried on by Du Bartas (dū-bār-tā), G UILLAUME but the restoration being carried on by the doctor of Bosnia, on the right bank of the Unna, about 10 miles from its There are several extensive military and confluence with the Save. In the constabulary barracks in the city and sixteenth and seventeenth centuries it vicinity. A little northwest of the clty, was a frequent point of contention between Austria and Turkey. In 1878, and an advente the centuries it vicinity. A little northwest of the clty, was a frequent point of contention between Austria and aministration. Pop. 6000. On lond the opposite bank of the Unna, in Crostata, stands Austrian Dubitza, with upwards of 3000-th but the seast coast of the island, at the mount of the Liffey, the banks of politary in the constabulary sease and the politary School. The land is situated in County Royal Zoological Society. The manupubilin, on the east coast of the island, factures carried on are of little note; at the mount of the Liffey, the banks of politary is also the constabulary should be politary in the lold part of the city the streets are irregular, nerrow and fifthy; in the more manufacture and fifthy; in the more manufacture and fifthy; in the more manufacture and fifthy in the more manufacture and fifthy; in the more manufacture and the constabulary is a should be a street, as plendid street so quares and the cast coast of the lifting are largely carried in a street, as plendid street for yards long the Liffey. The principal street and the cast coast of the lifting predension to a street, as plendid street for yards long of sea-coast, the chief indentation being and 40 yards wide, forming a thorough lifting and the principal public secular buildings and 40 yards wide, forming a thorough lifting the Liffe ceived a pension from Louis XVI. Dur- -St. Patrick's Cathedral, erected in

as shall have and keep their names on plastic art. the books of Trinity College.' The senate possesses the right of electing the the body which grants degrees. The fellows are appointed for life, after an examination. The college possesses a but Bois-Reymond (di bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed volumes Du Bois-Reymond (dii bwill - ralibrary of about 200,000 printed v and 1700 manuscripts. It has also a botanic garden and museum. In 1613 James I granted to the university the right of returning two members to Parlia-One was taken away at the

Dubnitza (döb-nit'za), a town in Bulgaria, 25 miles s. s. w. of It has extensive ironworks and Sofia. some manufactures of silk. Pop. about Kherson, on the Dniester, 100 miles 8000.

Dubno (döb'nō), a town of European Russia, government of Volhynia. It was a place of some importance Saratov, on before the annexation of Western Poland river trade by Russia. Pop. 13,785, in great part Pop. 16,370. by Russia.

of Chartres, afterwards Duke of Orleans metropolis of lowa, having immense wood and regent, and maintained his influence working, iron and clothing plants. Tribby pandering to the vices of his pupil. utary thereto is also a wealthy agricultie became privy-councilor and overtural region. It is the oldest town in the seer of the duke's household, and minister for foreign affairs under the regency. By river and rail. It has various large The archbishopric of Cambrai having educational establishments. The city was become vacant, Dubois ventured to resettled in 1833, but the site was occupied quest it of the regent, although he was by a trading and mining camp of French not even a priest. The regent was as-Canadians, established by Julien Dubuque tonished at his boldness; but he obtained in 1788. Pop. 45,000.

such doctors or masters of the university rank among the best products of French

DuBois (dő-boi', or dő-bois'), a town of Clearfield County. the possesses the right of electing the chancellor of the university; it is also sylvania, 129 miles E. N. E. of Pittsburgh, the body which grants degrees. The 1400 feet above sea level. It has large coal car and machine shops, flour mills, glass and clay works, etc. Pop. 12,623.

German physiologist, and an especial authority on animal electricity, born at Berlin in 1818; died in 1896. He studied theology, geology and anatomy and Union, but was restored by the reform physiology, and became professor of bill of 1832. in 1858.

(dö-da-sä'ri), a town of South Russia, gov. of Dubossari

(dö-bov'ka), a town of South Russia, gov. of Dubovka Saratov, on the Volga; has an extensive river trade in wool, iron, oil, grain, etc.

Dubois (dt-bwä), Guillaume, a french cardinal, was the son seat of Dubuque County. It occupies an of an apothecary; born in 1656; died important commercial position as a rail-in 1723. He became tutor to the Duke way center, and is the manufacturing of Chartres, afterwards Duke of Orleans and regent, and maintained his influence working, iron and clothing plants. Tribby pandering to the vices of his pupil, utary thereto is also a wealthy agricultural region. It is the oldest town in the seer of the duke's household, and minister for foreign affairs under the regency, by river and rail. It has various large trade archbishopric of Cambrai having educational establishments. The city was settled in 1833, but the site was occupied for the Mississippi, county founds.

not even a priest. The regent was astonished at his boldness; but he obtained the post, having in one morning received all the clerical orders, and, a few days after, the archbishopric. By his consummate address he obtained a cardinal's near Amiens; died at Paris in 1688. He hat, and in 1721 was appointed prime minister.

Dubois (dû-bwì), Paul, a French sculptor, born in 1829; died in 1905. He frst studied law, but in 1856-58 gave himself up to sculpture under Toussaint at Paris, and then went to Italy, where the sculptors of the early Renaissone, Donatello, Luca Della Robbia, etc., had a decided in Luence upon him. Among Greek and Latin peculiar to the Middle his works are a St. John, a Narcissus, a Madonna and Child, Eve Awakening Byzantina, the Annals of Zonaras, the to Life, a figure of Song for the opera-Numismatics of the Middle Ages, and house at Paris, and numerous busts; but his greatest work is the monument of Nantes, with figures of Military Courage, Charity, Faith and Meditation, which

mon in several European states, specially in Italy, Austria and Russia. Versailles in 1733; died in 1816. Of his It was either of silver or gold; average original works, the tragedy Abufar was value of the former, 75 cents to \$1.00; much admired; but he is now best known and of the latter about \$2.32. It was for his adaptations of Shakespere to the named from being first coined in one of Parisian stage.

the Italian duchies—Lat. ducatus, a Duck, the name common to all the

count of the siege and sack of Constantinople, was largely used by Gibbon.

Ducat (duk'at), a coin formerly common in several European states, (duk'at) (duk'at) (duk'at), a coin formerly common in several European states, (duk'at) (duk'at) (duk'at), a coin formerly common in several European states, (duk'at) (duk'at)

amed from being first coined in one of the Italian duchies—Lat. ducatus, a duchy.

Ducatoon (duk-a-tön'), formerly a buck, the name common to all the ducht silver coin worth 3 a subfamily Anatine, and by some naturalized of the same name in Italy. In and send ducks. The ducks are very Savoy slightly more, and in Venice about \$1.35, in and send ducks. The ducks are very numerous as species, and are met with \$1.18.

Du Chaillu (dü-shā-yū), PAUL Bellow, traveler, born at Paris in 1835. He spent his youth in the French settlement at the Gaboon, on the west coast of Africa, where his father wards became a naturalized citizen. In the United States, of which he after-wards became a naturalized citizen. In 1855 he began his first journey through Western Africa, and spent till 1859 alone the dark chestnut of the lower part of among the different tribes, traveling on foot upwards of \$000 miles. He collected several gorillas, never before dunked, and rarely, if ever, before seen by any European. The result of this of the Midnight Sun, an account of which, under the title A Journey to Ashango Land, appeared in 1867. The Land of the Midnight Sun, an account of which, under the title A Journey to Ashango Land, appeared in 1867. The Land of the Midnight Sun, an account of which, under the title A Journey to Ashango Land, appeared in 1867. The Land of the Midnight Sun, an account of a tour in Northern Europe (1881), had a considerable success. He also published a number of books intended for youth, and based on his travels. His most important works were his collection of French historiams—Historiæ Fran-rech historiams—Historiæ Franscriptores 838-1290: Historiæ d'Angle et erch historiæ Rose.

Duchoborzi (duh-o-bor'tsē), a Russian sect of religious mystics which came first_into notice in for its great beauty, and for its migratores which came first_into notice in for its great beauty, and for its migratore, and very soundant; black of the sun marked by the deep green of the sun marked to the land of the Midnight Sun, an account Duck, the name common to all the web-footed birds constituting Duchoborzi (duh-o-bor'tsē), a Rusthe summer or wood duck, remarkable for its great beauty, and for its migramystics which came first into notice in tions being directly opposed to those of the eighteenth century. They hold that the other species; the teal; the eider human souls existed before the creation duck, so well known for its valuable of the world, and fell in that former existence. Their doctrinal system is, howhead; the scaup ducks or blue-bill; the ever, not well known; but their ethical long-tailed duck; the harlequin duck, all teachings have a striking resemblance

Dudevant

Ducking-stool, a stool or chair in sur la Grammaire générale de Portwere formerly tied and plunged into water. They were of different forms, but that most commonly in was considered to the sur la considerate de l'ord. were formerly tied and plunged into water. They were of different forms, but that most commonly in use consisted of an upright post and a transverse being extended by drawing, while their movable beam on which the seat was thickness or diameter is diminished, in the Doomsday survey; it was exten-

Duck, a species of coarse cloth made lively and satirical. Among the best are of flax, lighter and finer than Confessions du Comte de B— (1741). Canvas.

Considérations sur les Mœurs de ce

movable beam on which the seat was unicalcess of distances of the fraction or separafitted or from which it was suspended by without any actual fraction or separaa chain. The ducking-stool is mentioned tion of their parts. On this property the wire-drawing of metals depends. The wire-drawing of metals depends. in the Doomsday survey; it was extensively in use throughout the country from the fifteenth till the beginning of the eighteenth century, and in one rare case at least—at Leominster—was used as recently as 1809.

Duckweed (duk'wēd), the popular name of several species of Lemna, nat. order Lemnacese, plants growing in ditches and shallow water, in diameter. The ductility of glass at floating on the surface, and serving for high temperatures seems to be unlimited. They consist of small fronds bearing naked unisexual flowers.

Duckworth (duk'wurth), Sir John the Duckworth (duk'wurth), Sir John Thomas, a British adjoined the navy when eleven years of age; and was post-captain in 1780. In 1793, on the breaking out of the French war, british for the fine serving for boundaries of Cumberland and Language and was appointed to the command of the Duderstadt. (d 8'd è r-st åt), an old sively in use throughout the country from following is nearly the order of ductility

on the breaking out of the French war, Du Denand, Madams. See Defland. he was appointed to the command of the Duderstadt (d ö'd èr-st å t), an old Orion, 74, forming part of the Channel fleet under Lord Howe, and distinguished of Hanover, 10 miles east from Cottingen,

Orion, 74, forming part of the Channel fleet under Lord Howe, and distinguished himself in 1794 in the great naval victory formerly a member of the Hanseatic gained by that celebrated admiral. In 1798 he aided in the capture of Minorca. From 1800 to 1806 he rendered important services on the West India station, in particular gaining a complete victory over a French squadron, for which he received a pension of £1000 a year and the thanks of both houses of parliament. In 1807, having been ordered to Constantinople, he forced the passage of the Dardanelles, but suffered severely from the Turkish batteries in returning. Between 1810 and 1813 he was governor of Newfoundland, in 1817 he was appointed to the chief command at Plymouth. In 1813 he was created a baronet.

Duclos (dû-klō), Charles Pinot, a She married Baron Dudevant, to whom and on the resignation of Voltaire he was appointed to the office of historiographer of France. His writings are

afforded her an opportunity of publish-ing a novel solely by herself—Indiana, VI. On the failure of the plot Lord under the name of George Sand, which Guildford was condemned to death, but she ever after retained. Indiana had a cism by its extreme views on social questions. This was also the case with many others of her works, a considerable number of novels appearing within the first few years after her debut. She visited Italy with Alfred de Musset; and lived eight years with Frédéric François Chopin, the composer. These relations Chopin, the composer. These relations also influenced or occasioned some of her works (as *Elle et Lui*, 1858). In 1836 she obtained a judicial separation from her husband, with the care of her children as the interest in the dren. She took an active interest in the revolution of 1848, and contributed conrevolution of 1848, and contributed considerably to newspaper and other political literature. In 1854 she published Histoire de Ma Vie, a psychological autobiography. Among her later novels are: La Mare au Diable, François le Champi, La Petite Fadette, Jean, Teverino, La Filleule, Les Maîtres Sonneurs, L'Homme de Neige, Pierre qui Roule and Monsieur de Sylvestre. Her published works consist of upwards of sixty separate novels, à large number of plays, and numerous articles in literary plays, and numerous articles in literary journals.—Her son MAURICE DUDEVANT, born at Paris in 1825, has written several novels, etc., and has attained a certain reputation as an artist.

iron mines, ironworks, and limestone quarries. It produces nails, chain cables, anchors, vises, boilers, fire irons, and has also glassworks, brickworks, brass foun-There are the remains of a

the sentence was not carried into effect till the insurrection of Wyatt induced Mary the insurrection of Wyatt induced Mary to order his immediate execution (1554). Dudley, John, Duke of Northumber-John, Duke of Northumber-John, John, Duke of Northumber-John in 1502; beheaded in 1553. He was born in 1502; beheaded in 1553. He was bern in 1502; beheaded in 1553. He was left by Henry VIII, one of the executors named in his will, as a kind of joint-regent during the minority of Edward VI. Under that prince he manifested the most insatiable ambition, and obtained vast accessions of honors, power and emoluments. The illness of the king, over whom he had gained complete ascendency, aroused his fears, and he endeavored to strengthen his interest by marrying his son Lord Guildford Dudley to Lady Jane Grey, descended from the younger sister of Henry VIII, and persuaded Edward to settle the crown on his kinswoman by will, to the exclusion his kinswoman by will, to the exclusion of his two sisters, the Princesses Mary and Elizabeth. The death of the king, the abortive attempts to place Lady Jane Grey on the throne, and the ruin of all those concerned in the scheme are among the most familiar events in the annals of England.

Dudley, ROBERT, Earl of Leicester.

Dudley Limestone, a highly fossilingerous lime-Dudley (dud'li), a town of England, in an isolated part of Worcestershire enclosed by Staffordshire, 8 miles occurring near Dudley, and equivalent west by north of Birmingham. It is to the Wenlock limestone. It abounds in situated in the midst of the 'black beautiful masses of coral, shells and tricountry,' and has extensive coal mines, lobites.

Duel (du'el; from L. duellum, from duo, two), a premeditated and prear-ranged combat between two persons with deadly weapons, for the purpose of deciding some private difference or quarrel. dries, etc. There are the action of dries, etc. There are the castle, said to have been founded in the eighth century by a Saxon prince called presence of witnesses called seconds, who has given the town its name. Dud, who has given the town its name. The combatants as to the mode of fighting, place the weapons in the hands of the combatants, and see that the laws they have laid down are carried thenry VII in the arbitrary acts of extortion by the revival of obsolete statutes are formed to the trial by 'watten of the revival of obsolete statutes ages. This form of duel arose among the combatants are formed to the trial by 'watten of the revival of obsolete statutes ages. This form of duel arose among the carried by the revival of the combatants, and see that the laws they have laid down are carried out. The origin of the practice of dueling is referred to the trial by 'watten of the combatants, and see that the laws they have laid down are carried of the revival of obsolete statutes are combatants. The combatants are the mode of fighting, place the weapons in the hands of the combatants, and see that the laws they have laid down are carried of the revival of obsolete statutes are combatants. The combatants are combatants are combatants are combatants are combatants. tion by the revival of obsolete statutes and other unjust measures practiced during the latter years of his reign. On the the Germanic peoples, and a judicial accession of Henry VIII he was arrested combat of the kind was authorized by for high treason, and perished on the scaffold with his associate, Sir Richard Emperished with his associate wi Dudley, Lord Guildford, son of John, being probably to some extent an independent on the spirit and instimarried in 1553. to Lady Jane Gray, tutions of chivalry. France was the whose claim to the throne the duke in-country in which it arese, the sixteenth

century being the time at which it first In the army and navy it is forbidden. became common. Upon every insult or Among the more famous duels of the injury which seemed to touch his honor, early period were those in which Charles a gentleman thought himself entitled to draw his sword, and to call on his adversary to give him satisfaction, and it was killed by Gen. McIntosh, and Alexis calculated that 6000 persons fell in duels during ten years of the reign of Henry IV. His minister, Sully, remon wounded fighting a duel. Andrew Jackstrated against the practice; but the king connived at it, supposing that it tended to maintain a military spirit among his and had other encounters. Henry Clay and John Randolph fought in 1826, decree against it, and declared it to be punishable with death. Many subsequent prohibitions were issued, but they were all powerless to stop the practice. Duenna (du-en'a), an elderly female holding a middle station between a governess and companion, who their lives in duels. The practice of dueling was introduced into England tor and statesman, born in 1798; died in from France in the reign of James I; 1881. In the Chamber of Deputies he bebut it was never so common as in the came an influential leader of the Liberal letter country. from France in the reign of James I; 1881. In the Chamber of Deputies he bebut it was never so common as in the came an influential leader of the Liberal latter country. Cromwell was an enemy party. Under the republic he was minof the duel, and during the protectorate ister of the interior, but was driven there was a cessation of the practice. It from the public service by the coup came again into vogue, however, after d'état of 1851. Under Thicrs he acted the Restoration, thanks chiefly to the as minister of justice; and in 1876, and French ideas that then inundated the again from 1877 to 1879, he was head of court. As society became more polished the cabinet. French ideas that then inundated the again from 1877 to 1879, he was head of court. As society became more polished duels became more frequent, and they were never more numerous than in the reign of George III. Among the principals in the fatal duels of this period owere Charles James Fox, Sheridan, Pitt, made under-secretary for India in 1868, Canning, Castlereagh, the Duke of York, the Duke of Richmond and Lord Camelford. The last-mentioned was the most graphical Society, 1889-93, and of the notorious duelist of his time, and was Royal Historical Society, 1892. He himself killed in a duel in 1804. A duel wrote Studies in European Politics, was fought between the Duke of Well-Ernest Renan, Notes from a Diary, etc. ington and Lord Winchelsea in 1829, but the practice was dying out. It lasted longest in the army. By English law Marquis of, a British statesman and fatal dueling is considered murder no matter how fair the combat may have been, and the seconds are liable to the born at Florence in 1826; died in 1902. same penalty as the principals. In 1813 the principal and seconds in a fatal duel when he was attached to Earl Russell's were sentenced to death, though after-model was sent as commissioner to Syria in conthe principal and seconds in a fatal duel when he was attached to Earl Russell's were sentenced to death, though afterwards pardoned. An officer in the army sent as commissioner to Syria in conhaving anything to do with a duel renection with the massacre of the Chrisders himself liable to be cashiered. In transcript (1860) was Indian under-secretion with the combats are usually very (1866); chancellor of the Duchy of bloodless and ridiculous affairs. In the Lancaster (1868-72); governor-general German army it is common, and is recognized by law. The duels of German students, so often spoken of, seldom cause (1882); sent to Cairo to settle the affairs serious bloodshed. In the United States of the country after Arabi Pasha's rebelduels are now uncommon. In some of lion (1882-83); viceroy of India (1889). Is punishable by death or by forfeiture In addition to the celebrity he had at of political rights, and in a large numtain also a popular and successful author. In

is other works are Antiquities of War-liberated. For his services in Spain he cickshire; the Baronage or Peerage of was made Constable of Castile, Count of England; Origines Judiciales, or Histor-Trastamare and Duke of Molinas and cal Memoirs of the English Law, Courts in 1370 he was made Constable of Justice, etc.; a History of St. Paul's France.

'athedral, and various minor writings. He also completed and published the econd volume of Spelman's Concilia.

Dugong (d û'g o n g), a herbivorous ancient place, believed to be of Roman origin, early rose to be a free town, and

1847 he published Narrative of a Journey gong, belonging to the order Sirenia, from Oxford to Skibbereen during the which includes the manatees. It is a year of the Irish Famine; in 1860, Letters from High Latitudes; and at various tapering body ending in a crescentimes pamphlets on Irish questions. In shaped fin, and is said sometimes to attain a length of 20 feet, though generally it is about 7 or 8 feet in length.

Duffy, Sir Charles Gavan, an Irish The skin is thick and smooth, with a few scattered bristles; the color bluish above and white beneath. In its osteology of O'Connell. He was tried spondence with the Pachydermata. Its for treason in 1848, but was aquitted. Its for treason in 1848, but was aquitted. Its food consists of marine plants; it yields lie afterwards emigrated to Australia, where he held important government Malays for its flesh, which resembles positions, becoming prime minister in 1871. He was knighted in 1873. His food consists of marine plants; it yields little or no oil, but is hunted by the Malays for its flesh, which resembles young beef, and is tender and palatable. Stallad Poetry of Ireland is a household book in his native country. He also wrote Young Ireland and Four Years of Irish History. Died in 1903.

Dufrenoy Mand a great geologist and mineralogist, born in 1792; died in 1857. He became director of the school of mines, and published a great geologist nap of France with three volumes of ext, and this was followed by his fraité de Minéralogie. He introduced a new classification of minerals, based on rystallography.

Dufresne (du-frān). See Ducange.

prizes from the British between 1690 and 1697. He then entered the royal marine as a captain, and signalized himself so much in the Spanish war that the king granted him letters of nobility, in which it was stated that he had captoet, born in 1648; died in 1727. He twenty ships of war. By the capture was clever and versatile, and had great kill as a landscape gardener and an architectural designer. Among his dranatic pieces may be mentioned L'Esprit Under Louis XV he rendered important to Contradiction, Le Mariage Fait et Contradiction, Le Mariage Fait et Compu and Le Double Veuvage.

Dugdale (dugdal), Sir William, an English antiquary, born in 1648. He was made Chester Mainly to him must be attributed the levald in 1644; accompanied Charles I hrough the civil war; and after the levald in 1644; accompanied Charles I hrough the civil war; and after the levald Monasticon Anglicanum. Among his other works are Antiquities of Warles (Coutt of English Black Prince, but was soon liberated. For his services in Spain against in important work on English monasteres titled Monasticon Anglicanum. Among his other works are Antiquities of Warles (Coutt of England; Origines Judiciales, or Histor-Trastamare and Duke of Molinas and control was made Constable of Castile, Count of England; Origines Judiciales, or Histor-Trastamare and Duke of Molinas and control was made Constable of Castile, Count of England; Origines Judiciales, or Histor-Trastamare and Duke of Molinas and control was made Constable of Castile, Count of England Control leval and the Mediter of Courte in 1370 he was made Control of Castile, Court of England Control of Castile Courte in 1370 he was made Control of Castile Courte in 1370 he was made Control of Castile, Court of Castile Courte in 1370 he was made Cantrol of Castile, Courte in 1370 he was made Cantrol of Castile, Courte in 1370 he was made Cantrol of Castile, Courte in 1370 he was made Cantrol of Castile, Courte in 1370 he was made Cantrol of Castile, Courte in 1370 he was made Cantrol of Castile, C

became a member of the factories of the fifteenth century, and has iron manufactories, engineering works, chemical works, cotton and woolen mills, etc.; but and a large trade greatly facilitated by a the Tame from Ashton-under-Lyne, and canal communicating with the Rhine, mostly within Stalybridge borough. Which is about 2 miles distant. Pop. (1910) 229,478.

Collieries, cotton factories, brick and tile works give employment to the inhabitants. Pop. (1911) 19,426.

Britain it is a title of honor or nobility next below that of a prince or princess of the blood-royal, and that of archbishop let el Golfete. It is about 30 miles long of the Church of England. The first by 12 broad, and affords profitable turtle hereditary duke in England was the Black Prince, created by his father, Edward III, in 1336. The duchy of Corwall was bestowed upon him, and was thenceforward attached to the eldest son of the king, who is considered. hereditary duke in England was the hunting.

Black Prince, created by his father, Edward III, in 1336. The duchy of Cornwall was bestowed upon him, and was Albania, now in the principality of thenceforward attached to the eldest son Montenegro, on the Adriatic, the seat of of the king, who is considered a duke by a Roman Catholic bishop. Pop. 5000. birth. The duchy of Lancaster was soon after conferred on Edward's third son. John of Gaunt, and hence arose the special privileges which these two duchies the world. The modern instrument constill in part retain. A duke in the Brite sists of a shellow transgrium-shaped box birth. The duchy of Lancaster was soon after conferred on Edward's third son. John of Gaunt, and hence arose the special privileges which these two duchies the world. The modern instrument constill in part retain. A duke in the British peerage, not of royal rank, is styled wife is a duchess. (See Address, Forms wife is a duchess. (See Address, Forms sides, and played on by being struck by of.) The coronet consists of a richly chased gold circle, having on its upper edge eight golden leaves of a conventional type called strawberry leaves: the tional type called strawberry leaves; the cap of crimson velvet is closed at the top with a gold tassel, lined with sarsnet, not.) At various periods and in different continental countries the title duke (Herzog in Germany) has been given to the actual sovereigns of small states. The titles 'grand-duke' and 'grand-duchess,' are was a century or two ago, and is interin use also on the European continent, the latter to distinguish the princes and the plano. It is still, however, occaprincesses of the Austrian imperial family. In the Bible the word dukes is used. Gen. xxxvi for the distance of the plano ings, and in the hands of street musicians. and turned up with ermine. (See Coroily. In the Bible the word dukes is ings, and in the hands of street musicians. used, Gen., xxxvi, for the duces of the The Hebrew psaltery is supposed to have

a member of the Hanseatic in Egypt, also in Spain and else It possesses a beautiful church where.

which is about 2 miles distant. Pop. (1910) 229,478.

Dujardin (dü-zhār-dan), Karel, a Dulcamara (du-ka-mā'ra; L. dulouka tile works give employment to the inhabitants. Pop. (1911) 19,426.

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Du



Vulgate.

Duke of Exeter's Daughter,

Dulcinists (dul'sin-ists), followers of Dulcinus, a layman of a rack in the Tower of London, so called Lombardy, in the fourteenth century, who after its inventor, a minister of Henry preached the reign of the Holy Ghost, VI.

Dukhn (duhn), a kind of millet till Christ's incarnation, and that the (Holcus spicatus or Pennise-Son's reign terminated in 1300. He was tum typhoidéum), extensively cultivated followed by a great many people to the Dulia Dumas

Alps, where he and his wife were taken and burned by order of Clement IV.

Dulia (duli-a; Gr. douleia, service, from doules, a slave), an inferior kind of worship or adoration, as that paid to saints and angels in the Roman Catholic Church. The Catholics recognize different degrees of worship. The lowest degree is the dulia, which is 1905. In 1917 the Duma forced the abdication is reserved for the Virgin alone; and latria is given to God and to each person in the Trinity.

Alps, where he and his wife were taken of three-fourths to the former and one-fourth to the latter.

Duma, Douma (du'ma), the Russian par liamentary assembly. This title, long borne by the national assembly, or council of state, created by a decree of Czar Nicholas in cation of Nicholas as Czar and attempted more vigorous war measures and internal latria is given to God and to each person in the Trinity.

Nulse (du's) a sea-weed. the Rhado-control with the Duma (du'ma), the Russian par liamentary assembly. This title, long borne by the national assembly, or council of state, created by a decree of Czar Nicholas in cation of Nicholas as Czar and attempted more vigorous war measures and internal workers and internal workers.

menia palmata, used in some element convoked a Constituent Assembly parts of Scotland as an edible. It has a consisting of delegates elected by the perparts of Scottand as an editie. It has a reddish-brown or purple, leathery, vein-less frond, several inches long, and is found at low water adhering to the rocks. It is an important plant to the Iceland-

The grain shipments are about 125,000,000 bushels yearly. The city is the outlet for the northern Minnesota iron mining region, and the site of a new steel plant of the United States Corporation, costing approximately \$20,000,000. There are large lumber shipments, and the total tonnage of the port is over 40,000,000 tons yearly. The population, 1910 centons yearly. sus, 78,466.

Dulwich (dul'ich), a village of England, County Surrey, 5 miles south of London Bridge (pop. 14.975), noticeable chiefly on account of its colnoticeable chiefly on account of its college and schools, the former called the College of God's Gift, founded as a charitable institution in 1619 by Edward Allen or Alleyn, a distinguished actor in school. The same year appeared his the reigns of Elizabeth and James I. Christine, and in quick succession Anfour parishes are benefited by the chartony, Richard d'Arlington, Térésa, Le ity: St. Luke's, Middlesex; St. Bo-Tour de Nesle, Catharine Howard, Mile. tolph's, Bishopgate; St. Saviour's, Southwark; and St. Giles' Camberwell. come a noted Parlsian character. The Having outlived its usefulness, in 1857 critics fought over the merits of his an act was passed by which the college pieces, and the scandalmongers over his was reconstituted. It now consists of prodigality and galanteries. Turning his two branches, the educational and the attention to romance, he produced a eleemosynary, between which the surseries of historical romances, among plus revenue is divided in the proportion which may be mentioned Les Deux

Alps, where he and his wife were taken of three-fourths to the former and one-

latria is given to God and to each person in the Trinity.

Dulse (duls), a sea-weed, the Rhodo-control with the Duma. The Bolshevik consisting of delegates elected by the peo-ple. This took the place of the Duma in

the peace negotiations concluded in March, 1918. See Russia, Bolsheviki, etc.

Dumas (dú-mä), ALEXANDRE, a favorite French novelist, born in 1802, the see of a roughlist, proportion It is an important plant to the Icelanders, and is stored by them in casks to be eaten with fish. In Kamtchatka a fermented liquor is made from it. In the south of England the name is given to the Iridwa cdilis, also an edible seaweed.

Duluth (du-luth'), a city, county seat of St. Louis County, Minneson began to write for the stage, and in sota, at the s. w. extremity of Lake Superior, at the head of navigation of the Great Lakes and served by the battle between the romanticists and the Northern Pacific and numerous other railroads. The harbor has a water line of 49 miles, and the grain elevators, ore shipping docks and coal receiving docks are of the most modern type. The grain shipments are about 125,000,



Dumbs Dianes; La Reine Margot; Les Trois held the office of general intendant of the Mousquestarics, with its continuations army in the campaign of 1812. After Vingt Ans Après and Vicomie de Brage, the restoration, Louis XVIII appointed Lonne. The Monte Cristo and several important appointments connected readers through translations. Several with the army. In 1830 he aided in him: Louis XVI et son Stiele; Le Regart et Louis XVI Le Drame de '93; the chief common. The Louis XVI Le Drame de '93; the chief command of all the national Florence et les Médicia, etc. The works guards of France, together with a which bear his name manunt to some 1200 volumes, including about 60 dramas; but the only claim he could lay to a great number of the productions issued under his name was that he either the song to the press. He earned vast sums of money, but his recklessness and extravagance latterly reduced him to the adoption of a shifty, scheming mode of living. His Mémoires, begun in 1852, present interesting sketches of literary life during the restoration, but display intense egotism. In 1860 he accompanied Garithal in the expedition Chief of 1870.

Dumas, horn in 1824; novelist and dramatist. His works treat mostly of the elections between vice and morals. His first novels, La Dame aux Camélias and Diane de Lus, were very successful, as were also the plays which were founded on them. His dramas, which are mounded on them. His dramas, which are mounded on them. His dramas, which were lounded on them. His dramas, which were founded on the production of the armounded on the production of the series of the

connected by a biconic bar for holding, and freestone abound in various parts. used in gymnastic exercises for strength- Pop. 72,571.

connected by a biconic bar for holding, used in gymnastic exercises for strengthening the muscles of the arms and chest. Dumb-cane, a plant of the order bachia seguina of the West Indies, so called from its acridity, it causing when chewed loss of power of speech.

Dumbness (dum nes). See Leaf and chewed loss of power of speech.

Dumbness (dum nes). See Leaf and a minister of the Frestant Church in 1750: a minister of the Frestant Church in 1750: a minister of the Frestant Church in 1762. He attached himself to the demonstration of the Sepoys against the greased cartridges, which led to the mutiny of 1857. Pop. 20,820.

Dumdum Bullet. See Bullet.

Dumfries (du m-f r&z'), a river port land, capital of the county of same name, and the chief place in the south of Scotland, capital of the county of same name, and the chief place in the south of Scotland, spirith. It is connected with the suburb Maxwelltown (in Kirkcudbright) by three bridges, one dating from the thirteenth century. It is a pleasing, well-built town, with various handsome public edifices. There are iron foundries, hosiery and tweed factories, tanneries, coachbuilding works, etc. The river Nith is remains at the work for vessels of great antiquity. The church of the Minorites which once stood here was of the seene of the murder of the Red Comyn by Brace in 1300. Burns spent his closing years here, and the street his choice and the seene of the murder of the Red Comyn by Brace in 1300. Burns spent his closing years here, and the street his choice of the railway system. Other the street his content of the street his content of the Red Comyn by Brace in 1300. Burns spent his colored the Red Comyn by Brace in 1300. Burns spent his colored the seene of the murder of the Red Comyn by Brace in 1300. Burns spent his colored the Red Comyn by Brace in 1300. Burns spent his colored the Red Comyn by Brace in 1300. Burns spent his colored the Red Comyn by Brace in 1300. Burns spent his conditions of the Red Comyn by Brace in 1300. Burns spent his conditions of th cattle are reared, and are much in re-l'Océanie, which was finished by one of quest for the English market. The sheep his companions, on the hill pastures are mostly Cheviots; on the lower and arable lands the Leicester breed prevails. The salmon French general of great military talent, fishery is of importance. The minerals was born at Cambrai in 1739, of a noble most abundant are coal, lead, iron, family of Provence; died near Henley-on-antimony and gypsum. Coal and lead Thames in 1823. He served as an officer are worked to a small extent. Limestone in the Seven Years' war. In 168 he

Dunblane Düna



Congress, which he held for several years; but he contracted consumption and returned to Dayton, where he died. He wrote partly in negro dialect and partly in conventional English; and besides his poetry published several novels, including The Sport of the Gods (1902). Other volumes of verse than those already mentioned were Poems of Cabin and Field (1889), Candle-lightin Time (1902), and Howdy, Honey, Howdy (1905).

Dunbar, William, the most eminent was born, probably in East Lothian, about 1400-65. He seems to have become a beging friar of the Franciscan order, and made journeys in England and France, but he returned to Scotland about 1490, and attached himself to the court of carchy in the person of the heir to the crown, but was attacked by the Versailles volunteers, and compelled to field the event in a poem of great beauty, enticution was underings found a final refuse tied, The Thrissil and the Rois. His pension of 300,000 livres upon his had. At first he retired to Brussels, and after avarious wanderings found a final refuse a benefice, but always without success. In England. His Memoirs, written by After Flodden his name disappears from the government Tver, about 15 miles with the government for Political pamphlets. Düna (dü'nà) or Western Dvina, a river of Russia, which rises in lant description and Luvriant imaginative of the source of the Volga, falls into the Gulf of Riga, has a course of about 65 000 smiles, and waters the seven governments of Tver, Pskoff, Vitebsk, Mogileff, Vilna pure of Political pamphlets of Tver, Pskoff, Vitebsk, Mogileff, Vilna, courled and Livonia, draining an area of about 65,000 sq. miles. It is navigable for a considerable distance, but is frozen for about four months each year.

Dünaburg (dü'n-burg), or Dvina-forces under the Duke of Argyle, and the forces under the Duke of Argyle, and the

went to Corsica as quartermaster-general of the small army which was sent for the conquest of that island, and was afterwards made colonel. In 1778 he was appointed governor of Cherbourg. At the revolution he joined the Jacobins, and subsequently the Girondists, and in 1792 he was minister of foreign affairs. War breaking out between France and Austria, he resigned in order to take command of the army; invaded Flanders, and de
Dunbar (dunbār). PAUL LAURENCE, and African blood, born in Dayton, Ohio, July 27, 1872; died February 9, 1906. He published his first volume, Oak and Ivy, in 1893, and his third volume, Lyrics of Congress, which he held for several years; but he contracted consumption and returned to Dayton, where he died. He wrote partly in negro dialect and partly in conventional Enrlish: and hesides his

Dundee Duncan

Jacobites under the Earl of Mar. Pop. Robert Bruce, was defeated and slain by 2516.

Duncan (dun'kan), Adam, Viscount, a Scottish naval officer, was born in Dundee, in 1731; died in 1804.

He went to sea when young, and was a place in the legal and political history post-captain in 1761. In the following of Scotland.—Sir James Dundas, the wars he sewed at the taking of Havane. Jacobites under the Land 2516.

Duncan (dun'kan), Adam, Viscount, a Scottish naval officer, was born in Dundee, in 1731; died in 1804.

He went to sea when young, and was a place in the legal and political history post-captain in 1761. In the following of Scotland.—Sir James Dundas, the year he served at the taking of Havana; and in 1779 he shared in the victory of Admiral Rodney over the Spaniards. In 1789 he became rear-admiral of the blue, white and in 1794 vice-admiral of the white squadron. The following year he was appointed commander of the North Sea fleet, and in October, 1797, won a briliant victory over the Dutch fleet off Camperdown, for which he was rewarded with the title of Viscount Duncan and a pension of £2000 a year.

pension of £2000 a year.

Duncan, Thomas, an eminent Scottish painter, was born in 1807; died at Edinburgh in 1845. He studied under Sir W. Allan, and was elected an associate of the Royal Academy in 1843. His principal works were illustrative of Scottish history and character. Among the best known of them are: The Abdication of Mary, Queen of Scots; Anne Page and Slender; Prince Charles Edward and the Highlanders entering Edinburgh after Prestonpans; Charles Edward asleep in a Cave after Culloden; The Martyrdom of John Brown of Priesthill, etc. His portraits are very highly esteemed. highly esteemed.

highly esteemed.

Duncansby Head (dun'kans-bi), a promontory in Caithness-shire, Scotland, forming the N. Extremity of the Scottish mainland, 134 time took a leading part in all the Pitt miles E of John o' Groat's House, and measures, and had supreme influence in Stacks of Duncansby, which in spring House of Lords of high crimes and misand summer are covered with sea-fowl.

Dunciad (dun'si-ad), THE, a celebrated satirical poem by Pope, in which he gibbets his critics and foes.

The first three books were published in 1728, the fourth book, or New Dunciad, appeared in 1742, with illustrations by Scriblerus and notes variorum. Cibber of Forfar, on the north shore of the Scriblerus and notes variorum. Cibber was later substituted for Theobald as the hero; and among others who figured in the satire were Ambrose Philips, Black-more, Bentley, Defoe, Dennis, Shadwell, Settle. etc.

earls of March.—His eldest son, SIE JAMES, was member of parliament for Mid-Lothian, and was appointed one of the judges of the Court of Session (1662):—His eldest son ROBERT was also raised to the bench of the Court of Session, and filled that station for thirty-group works. He died in 1727 History Session, and filled that station for thirty-seven years. He died in 1727.—His eldest son ROBERT (1685-1753) was successively solicitor-general for Scotland, lord-advocate, member of parliament for the county of Edinburgh, and dean of the faculty of advocates. In 1737 he was raised to the bench, and on the death of Lord-president Forbes of Culloden, in 1748, he was appointed his successor. His eldest son ROBERT (1713-87) also attained to the positions of lord-advocate, and lord-president of the Court of Sessions. and lord-president of the Court of Session.—His brother, HENRY DUNDAS, VISsion.—His brother, HENRY DUNDAS, VISCOUNT MELVILLE, distinguished statesman, born in 1741; died in 1811. He obtained the post of solicitor-general in 1773, that of lord-advocate in 1775, and was made joint keeper of the signet for Scotland in 1777. In 1782 he was appointed treasurer of the navy and member of the privy-council; and from that time took a leading part in all the Pitt measures, and had supreme influence in

direct descendant.

Dundee (dun-de'), a city and seaport of Scotland, in the county of Forfar, on the north shore of the Firth of Tay, about 8 miles from the open sea, 37 miles N. N. E. of Edinburgh; in population the third town in Scotland. It stretches along the Tay from east to west, and of late years has been greatly extended in both directions. The more recently formed streets are spacious and band-Dundalk (dun-dak'), a seaport of years has been greatly extended in Ireland, capital of the both directions. The more recently county of Louth, on Castletown River, formed streets are spacious and handabout 2 miles above its mouth in Dundalk some, but most of those of more an-Bay. Its principal manufactures are cient date are narrow and irregularly ropes and castings; the trade chiefly in built. The most conspicuous building is cattle and agricultural produce, is extensive. Here Edward Bruce, brother of it is popularly called, 156 feet high,

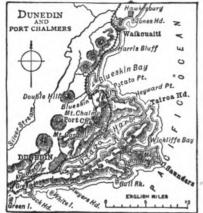
Dundee Dunedin

erected in the middle of the fourteenth century, and to which three modern parochial churches have been built in form of a cathedral, the nave, choir and transept, respectively, forming a separate church. Among public buildings are: the town hall, several public halls, the high school, exchange, infirmary, lunatic asylum, Albert Institute and free library, etc. The chief educational institution is the University College, open to both sexes, whose first session opened in 1883. Dundee has several public parks and recreation grounds and a good supply self obnoxious to the authorities. He of water. The town has long been celebrated for its textile manufactures, particularly those of the coarser descriptions of linen, and it is now the chief seat of the linen trade in Scotland and of the reatment of the prize-court, seat of the linen trade in Scotland and and the treatment of the prize-court, seat of the seat and the spinning and weav-tories engaged in the erected in the middle of the fourteenth 1800 he was appointed to the Speedy being a great number of mills and tac-convicting nim on a charge—since proved tories engaged in the spinning and weav-to be false—of originating a rumor, for ing of flax, jute and hemp. Shipbuild-speculative purposes, that Napoleon had ing is extensively carried on, and there abdicated. He was expelled from parliar are large engineering establishments, etc. ment, deprived of all his honors, imanother branch of business is the north-prisoned for a year, and fined £1000, ern seal and whale fishery. Dundee is The electors of Westminster immediately are large engineering establishments, etc. Another branch of business is the norther seal and whale fishery. Dundee is also famous for its marmalade and other preserves and confectionery. The shipping accommodation includes five large wet docks, with a connected tidal harbor service in the Chilean navy, his exploits and graving docks. The railway facilities of Dundee were greatly increased in 1878 by the opening of a bridge across the Tay; but on December 28, 1879, the bridge was destroyed in a violent storm, when about 100 people in a violent storm, when about 100 people in a train in the act of crossing lost their lives. A new bridge, to replace the one destroyed, was opened for traffic in June, 1887; it is a very substantial structure ica and West India station; and in about two miles in length. Dundee was made a royal burgh by William the Lion, was twice in the possession of the English under Edward I, and was as often retaken by Wallace and Bruce. In 1645 and the screw propellor in warships. He it was besieged, taken, and sacked by the Duke of Montrose; and six years afterwards it was stormed by Monk, when a great number of its inhabitants were put to death. In 1888 it was raised by royal grant to the rank of a city. Pop. 169,400.

Dundee, John Graham of Claver-burdee, House, Viscount. See Graby royal grant to the rank of a city. Commercial town in the colony, stands at the upper extremity of an arm of the Dundee, HOUSE, VISCOUNT. See Granal Way. Though founded in 1848, its more rapid progress dates only from arkshire in 1775; died in 1860. At the population. It is well paved. lighted age of eighteen he embarked with his uncle, then Captain, and afterwards Sir water. There are many handsome build-Alexander Cochrane, in the Hind, of ings, both public and private; the twenty-eight guns, and soon distinguished himself by his daring and gallantry. In

Dunes Dunkers

hall, two theaters, etc. Wool is the closel staple export. Several woolen and color. staple export. other manufactories are now in exist-



There is a regular line of steamers between this port and Melbourne, and communication is frequent with all parts of New Zealand. Through the opening of the new Victoria Channel from Port Chalmers vessels drawing 16

well built. Dunfermline was early a favorite residence of the kings of Scotland, and here were born David II, James I, Charles I and his sister Elizabeth. The Benedictine abbey founded by many, in 1708, and which takes its name from the Ger. tunken, to dip, from their sented chiefly by the Abbey Church, undernath the pulpit of which are the derneath the pulpit of which are the remains of King Robert Bruce. Dunfermline early took the lead in the manufacture of table linen, and is still in order to effect their recovery, dependentially and the side with oil order to effect their recovery, dependentially and the side with oil in order to effect their recovery, dependentially and the side with oil in order to effect their recovery, dependentially and the side with oil in order to effect their recovery, dependentially and the side with oil in order to effect their recovery, dependentially and the side with the side with oil in order to effect their recovery, dependentially and the side with the side with oil in order to effect their recovery, dependentially and the side with the sid

the university, high schools, the new museum, several banks (especially the Bank of New Zealand), the athenseum open, partially salted, piled up in a dark and mechanics' institute, the freemasons' place under salt-grass or hay, and then hall, two theaters, etc. Wool is the closely packed; named from their dun

Dungannon (dun-gan'un), a town of Ireland, County Tyrone, 35 miles west by south of Belfast. It has manufactures of linen and earthenware. Pop. 3694.

Dungarpur (dön-gar-pör'), an Indian native state in Rajputana; area, 1440 sq. miles.; pop. 100,-103.—DUNGARPUR is also the name of the chief town and residence of the mahara-

wal of the state. Pon. 6094.

Dungarvan (dun-gar'van), a seaport of Ireland, County Waor freiand, County Waterford, on the Bay of Dungarvan, much resorted to for sea-bathing. The harbor is shallow, and the trade depends almost entirely on agricultural produce. Pop. 4850.

Dung Beetle, a name applied to a coleopterous insects of the Lamellicorn family (or that family in which the antennæ terminate usually in lateral leaflets) from their habit of burying their eggs in dung. The Geotrapes stercorarius, dor' or 'shard-borne' beetle, and the Scarabous sacer, or sacred beetle of quent with all the Scarabous sacer, or sacred beetle of Through the the Egyptians, are examples.

parts of New Zealand. Through the opening of the new Victoria Channel from Port Chalmers vessels drawing 16 feet can now ascend to Dunedin at low water. Pop. (1911) 64.237.

Dunes (duns), low hills of sand accumulated on the seacoast of Holland, Britain, Spain and other countries, in some places encroaching on and covering what once was cultivated land, but in others serving as a natural barrier to protect the country from the destructive encroachments of the sea.

Dunfermline (dun-fer'lin), a royal country of Fife 3 miles m. of the Firth of Forth, and 13 northwest of Edinburgh. The streets, though narrow, are examples.

County of Fife 3 miles m. of the Firth used as the parish church. Near it is of Forth, and 13 northwest of Edinburgh. The streets, though narrow, are well built. Dunfermline was early a favorite residence of the kings of Scotland, Dunkers (dun'kers), or Tunkers, a

trance of the Strait of Dover, surrounded by Malls, and otherwise defended by forts sylvania, 2 miles from Scranton. It and outworks. It has several fine derives its prosperity chiefly from the churches, a college, a public library and anthracite coal mines which are worked a gallery of paintings; manufactures of in the vicinity, but has silk and other earthenware, leather, soap, starch, ropes; industries. Pop. 17,615.

sugar-refineries, breweries, distilleries, purpose the promontory in Caithele segarend the scene of many contests.



varieties of the dunlin.

Dunmow

their best speaker is usually set apart England, county of Essex. The latter is as their minister. They all emigrated to remarkable for the ancient custom, rethe United States, where they are found cently revived, of giving a flitch of bacon In nearly every State.

Dunkirk (dun-kirk'; French, Dunkerque), a seaport town of
they had neither quarreled nor repented.

France, department Nord, at the entrance of the Strait of Dover, surrounded

Dunmore (dun-mör'), a town of
trance of the Strait of Dover, surrounded

sugar-refineries, breweries, distilleries, etc. It was a fortified place in the middle ages and the scene of many contests between the Spaniards and French. Pop. (1906) 35,767; with suburbs, 60,000.

Dunkirk (dun'kurk), a city of Chautauqua Co., New York, on Lake Erie, 41 miles S. w. of Buffalo. It has an excellent harbor, with protecting breakwater. It is situated on the Lake Shore, Pennsylvania, Nickel Plate, Erie and D. A. V. railroads. It has considerable trade with the other lake ports and has a variety of industries, including hold of the Keiths, earls marischal. Durate Company, one of the largest locomotive manufacturing plants in the world. Pop. 17,221.

Dunlin (dun'lin), a British bird of sandpiper, occurring in vast flocks along sandy shores. It is about 8 inches and winter, the back passing from black with reddish edges to each feather to an distance of Scotland, crowned by a lighthouse visible at a distance of 25 miles.

Dunnottar Castle (dun-ot'ar), an extensive ruin on the coast of Kincardineshire, Scctland. on a precipitous rock rising from the content the commonwealth this castle was security, and was long the strong-the technic, and in the commonwealth this castle was secure to commonwealth this castle was set elected for the preservation of the Scottish regalia; and in 1685 it was used as a state prison for Covenanters. It was dismantled in 1720.

Dunois (dū-nwā), Jean, Co unt of Orleans and of Longueville; and winter, the back passing from black with reddish edges to each feather to an defeat of Warwick and Suffolk, whom he pursued to Paris. Being besieged by the English, he defended Orleans until relieved by the Maid of Orleans. In 1450 he had completely freed France from the English, and was rewarded by the title he had completely freed France from the English, and was rewarded by the title of 'deliverer of his country,' the county of Longueville, and the dignity of high chamberlain of France.

Dunquerque (dun-kerk). See Dun-

Dunlin (Tringa variabilis).

Duns, John, commonly called Duns, Scotus, an eminent scholastic divine, born in 1265 or 1275, but whether black to pure white. The American in England, Scotland or Ireland is un-tringa alpina is a frequent visitor to certain. He was admitted when young Scotland, and there is some ground for into an institution belonging to the believing that these large birds are merely be were sont to Markon College. he was sent to Merton College, Oxford. Dunlop (dun-lop'), a parish of Ayr. In 1301 he was appointed divinity prosper its name to an esteemed variety of learning and talents drew growds of cheese. (dun-mou'), GREAT and to Paris, and was appointed professor LITTLE, two villages of and regent in the theological schools, in

which situation he acquired the title of tinal canal, the first of the smaller in-the subtle doctor.' Duns opposed testines, so called because its length is Thomas Aquinas on the subject of grace about twelve fingers' breadth (Lat. and free-will; and hence the Scotists are duodeni, by twelves).

endary element.

of which is twelve. Duodecimals is a

Thomas Aquinas on the subject of grace about twelve fingers' breadth (Lat. and free-will; and hence the Scotists are opposed to the Thomists. Duns was the apostle of realism, which was opposed to the systems of nominalism and conceptualism promulgated by the other sections into which the schoolmen were divided. It is said, at Cologne in 1308, leaving behind him numerous works.

Dunsinane (dun-sin-ān'), a hill in Scotland, one of the Sid. 1849. From that time he took a promlaws, altitude 1012 feet, about 7 miles in 1841, and Bishop of Orleans in Scotland, county of Bedically called Macbeth's Castle.

Dunstable (dun'sta-bl), a town of England, county of Bedically called Macbeth's Castle.

Dunstable (dun'sta-bl), a town of Merita and proportion of the Sid. 20 miles northwest of London. It was an important Roman station, and had a palace and a priory founded by the decisions of the council of the vatification of the Sid. 20 miles northwest of London. It was an important Roman station, and had a palace and a priory founded by the decisions of the council of the vatification of the science under the titles Cahiers de Chansons, La Duodecimal System (dû-o-de s'i- Muse Populaire, Chants et Chansons, mal), in nu- Poésie et Musique, Etudes littéraires, etc. meration, a system of numbers the scale Dunont de Namoura (dû-pôn de nê-Dupont de Nemours (dû-pôn de ne-mör), PIERRE of which is twelve. Duodecimals is a term applied to an arithmetical method of sacretaining the number of square feet, born at Paris in 1739; died in America etc., in a rectangular area or surface, born at Paris in 1739; died in America etc., in a rectangular area or surface, born at Paris in 1739; died in America in 1817. He early gained a reputation for his writings on commerce and political economy, and was employed by Turgot and Vergennes in the public service. During the ministry of Calonne he beform of volume in which each leaf forms a twelfth part of the sheet.

Duodenum (dū-o-dĕ'num), the commencement of the intesserved. He was twice president of the National Assembly. During the revolurica in 1815. Among his writings are of cellulose in the wood cells.

Philosophie de l'Univers, Vie de Turgot,
and a translation of Ariosto.

Durance (dù-rans), a river of France and a translation of Ariosto.

and a translation of Ariosto.

Düppel (düp'l), a fortified village in the province of Schleswig, joins the Rhone about 4 miles below joins the Rhone about 4 miles below the province of Schleswig, joins the Rhone about 4 miles below province, and has been the scene of the Little Belt. Avignon. Though not navigable it serves the place is of considerable strategical importance, and has been the scene of some severe struggles between the Danes, to whom it formerly belonged, and the Germans. It was captured by the Prussians in 1864, after a siege and bombardment which lasted nearly two months.

Dupuytren (dů-p ù-i-trän), Guil-Ogherof, Fidelka and many others.

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Dupuytren (d d-p d-i-tr ä n), GUIL-Ogherof, Fidelka and many others.

LAUME, BARON, a French
surgeon and anatomist; born in 1777;
died at Paris, in 1835. He became in of Durango, about 500 miles N. w. of Mexin the above hospital. In 1823 he was appointed first physician to Louis XVIII, and retained the same situation under Charles X. He was considered the first French surgeon of his day; he made important discoveries in morbid anatin the above hospital. In 1823 he was appointed first physician to Louis XVIII, valuable gold, silver and iron mines and control the same situation under and also fertile tracts. Pop. 370,294.

Charles X. He was considered the first French surgeon of his day; he made important discoveries in morbid anatomy.

Duquesne (dů-kān), a borough of Railroad. Has smelting plant, coal and coke industries, gold and silver mines, farming, stock raising, etc. Pop. 6200.

vania, 12 miles S. E. of Pittsburgh. It has blast furnaces, steel works, etc. Pop. 15,727.

Duquesne (dů-kān), Abraham, a and steel works. Pop. 5330.

Duquesne (dù-kān), Abraham, a and coke interests and smelting, iron and steel works. Pop. 5330.

1610; died in 1688. In his seventeenth year he was in the sea-fight off Rochelle, and distinguished himself during and after the year 1637 in the war against Spain. In 1647 he commanded the expedition against Naples. In the Sicilian war he thrice defeated the combined fleets of Holland and Spain, under the renowned Guglielmi, Jomelli, etc.

Durazzo (dò-ràt's), Frances of Durante (dō-ràn'tā), Frances co.

1684; died in 1755. He attained a high degree of eminence in vocal church music, and he trained the most celebrated musical masters of the eighteenth century in Naples—Pergolese, Sacchini, Piccini, of Holland and Spain, under the renowned Guglielmi, Jomelli, etc.

Durazzo (dò-rāt'sō), anciently Dyrrhachium, or Epidamnus, a of Holland and Spain, under the renowned De Ruyter. After he had reduced Algiers and Genoa, Louis XIV conferred upon only person exempted from the banishment of his sect, occasioned by the repeal of the edict of Nantes.

Duquoin (du-kwoin'), a city of Perry Co., Illinois, 77 miles N. of Cairo. It has extensive coaling interestr and various manufactures. Pop. 6000.

Dura Mater. See Brain.

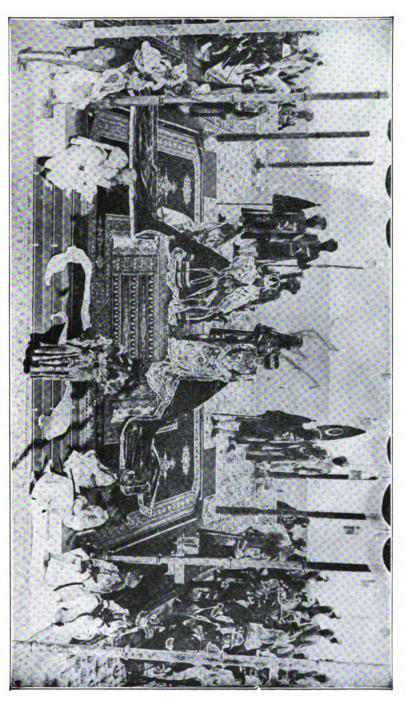
tion he opposed the extreme republicans, and escaped the guillotine narrowly at downfall of Robespierre. From central wood or heart-wood in the trunk 1798 to 1802 he was in America, and on of an exogenous tree. It is more solid his return to France he refused all pubthan the newer wood that surrounds it, lic office. He finally returned to Amer-from the formation of secondary layers

died at Paris, in 1835. He became in of Durango, about 500 miles N. w. of Mex-1803, second, and in 1815 first surgeon ico, on an elevation 6845 feet above the to the Hôtel Dieu, Paris. The professor- sea. It is well built, has a cathedral, a ship of surgery to the medical faculty, mint, manufactures of cotton and woolen conferred upon him in 1813, was ex- goods, leather, etc. Pop. 31,092.—The changed in 1818 for a clinical lectureship state (area, 38,009 sq. miles) is partly goods, leather, etc. Pop. 31,092.—The state (area, 38,009 sq. miles) is partly mountainous and unproductive, but has

rhachium, or Epidamnus, a him the fine estate of Bouchet, and made seaport in the principality of Albani. Durit a marquisate, with the title of Duing the European war the Italians landed quesne. He was a Protestant and the forces at Aylona and pushed forward to forces at Aviona and pushed forward to Durazzo in December, 1915. In February,

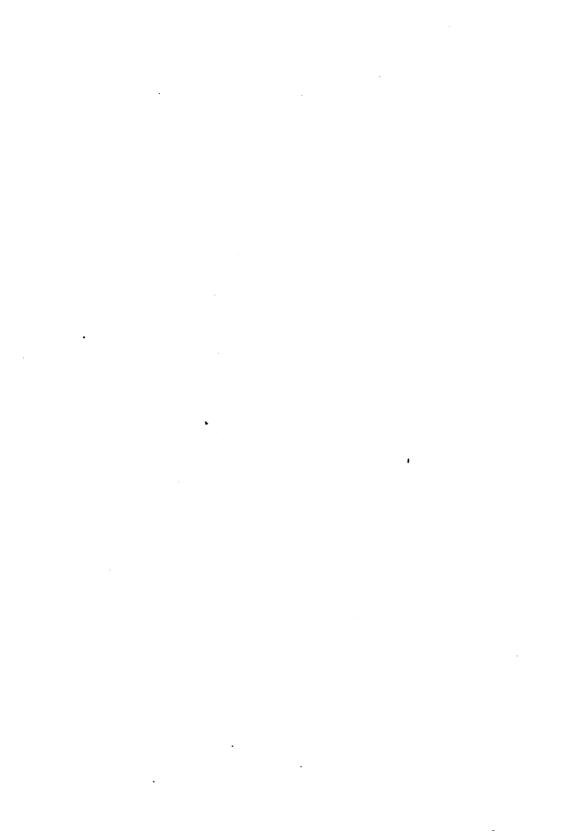
1916, the Austro-Hungarians captured the port. Pop. (1914) 5500.

Durban (dur-ban'), or Port Natal. Union of South Africa. It was founded in 1834 and carries on a considerable trade. It is connected by rail with Maritzburg and the interior. Pop. 67,842.



THE GREAT INDIAN DURBAR

King George V and Queen Mary, as Emperor and Empress of India, receiving the homage of His Royal Highness, the Rajah of Bhutan.





Albert Durer.

Albert Durers.

Albert Durer.

An act done under duress is voidable or excusable.

D'Urfey (dur'fi), Thomas, an English poet and wit, the grandson of a French Protestant refugee, was is voidable or excusable.

D'Urfey (dur'fi), Thomas, an English poet and wit, the grandson of a French Protestant refugee, was is voidable or excusable.

D'Urfey (dur'fi), Thomas, an English poet and wit, the grandson of improve a large number of comedies of a licentious character. D'Urfey's name is now principally remembered in connection with his Pills to Purge Melancholy, a col-went his

urbar (dur-bar'), an audience room in the palaces of the native inces of India; hence, a general reption by a prince or ruler. A magnicent durbar was held on December 12, and enabled him to exert a great influence durbar was held on December 12, and enabled him to exert a great influence on German art. He was the first in Germany who taught the rules of scoronation in person.

"Uren (du'ren), a town of Rhenish Prussia, on the right bank of the Prussia, on the right bank of the proportions of the human figure. He not only made use of the burin, like his predecessors. woolens, paper, leather, rails, hardare, etc., and an extensive trade. Pop. 1905) 22,270.

"Urer (du'rer), Albert, a German painter, designer, sculptor and painter, designer, sculptor and painter, designer, sculptor and ration of the Magi, and portraits of lungary. In 1436 he left his father's engravings on copper are his Fortune, and and became an apprentice of Michell Wohlgemuth, then the best painter Among his best engravings on wood are a Nuremberg. Having finished his studits, he entered upon his 'wanderjahre,'

"Wander of the method of printing woodcuts with two colors. Among his masterpieces in painting are a Crucificion, Adam and Eve and Adoration of the Magi, and portraits of Melancholy, Adam and Eve in Paradise, St. Hubert, St. Jerome and the Smaller Passion, the entered upon his 'wanderjahre,' with the frontispiece, fifteen plates; the Emaller Passion, with the frontispiece, fifteen plates; the Life of Mary, two prints, with the frontispiece, thirty-seven pieces; the Revelation of St. John, with the frontispiece, fifteen plates; the Life of Mary, two prints, with the frontispiece, thirty-seven pieces; the Revelation and the Use of the Compass and Square. tion, Fortification and the Use of the

Compass and Square.

Duress (du'res), in law, restraint or compulsion, is of two kinds; duress of imprisonment, which is imprisonment or restraint of personal lib-

shield. A great festival in her honor, the chief green crops turnips and potatoes. Durga puja, is celebrated annually, last. The cattle are esteemed both for the ing for ten days.



Durga.

Durham (du'ram), an ancient city of England, capital of the county of the same name, on the river Wear, which is crossed here by four bridges, 14 miles s. of Newcastle. The principal public buildings are the ancient castle, the cathedral and other churches, the town hall, county prison, grammar school, etc. The educational institutions school, etc. The educational institutions comprise the university, the grammar school, a training school for schoolmistresses and other schools. There are manufactures of carpeting and mustard. The cathedral occupies a height overlooking the Wear. The larger portion of it is Norman in style, with insertions in all the English styles. It was founded by William de Carllenho, assisted in all the English styles. It was founded by William de Carilepho, assisted by Malcolm, King of Scotland, in 1093. The castle, a little north of the cathedral, was founded by William the Conqueror. It is now appropriated to the University of Durham, founded in 1832, and incorporated in 1837. Pop. (1911) 17,550.

Durham, a county in the north of England, bounded by the counties of Northumberland, Cumberland and Yorkshire, with the North Sea on the east. Its area is 1015 sq. miles, of counties of Northumberland. Cumberland and Yorkshire, with the North Sea on the east. Its area is 1015 sq. miles, of which two-thirds are under cultivation. The western portion of the county is ated the most delicious hilly, enclosing fertile valleys, the eastern flavor, which places it, notwithstanding portion is more level, and the center conthe odor, in the opinion of many, in the tains extensive coal fields. Lead, iron foremost place among tropical fruits, and millstones are also produced. The Durmast (dur'mast), a species of oak, chief grain crops are wheat and oats; the

dairy and for fattening. In connection with the commerce of the county may be noticed its foundries, ironworks, potteries, glasshouses, iron shipbuilding, engine and machine works, chemical works, etc. Pop. (1911) 1,377,176.

Durham, a city, capital of Durham County, North Carolina, 26 miles N. w. of Raleigh. It has snuff and tobacco factories and other industries. General Johnston surrendered here, April 25, 1865, to General Sherman, an event which practically ended the Civil war. Pop. 18,241.

Durham, Book of, a Latin text of Bishop Eadfrith of Lindisfarne, with an interlinear Saxon gloss, finished in the year 720. It is now kept in the British Museum.

Durham, EARL OF (GEORGE LAMB-dian Federation, born at London in 1792: died there in 1840. In 1838 he was sent to Canada to readjust matters after the rebellion of the preceding year. His report to the British government was made the basis of the settlement resulting in the Dominion Act of 1867.

Durham, SIMEON OF, an English century; wrote Annals of England to the Reign of Henry I, particularly valuable for events connected with the N. of England. They were continued by John of Hexham.

Durian (du'ri-an), or Durion (Durio

tree growing in the Malayan Archipelago. The largish flowers, of a yellow-green color, are produced on the stem or main branches, and are large are followed by fetid fruit. which is of the size of a man's head, and is a favorite food of the natives during the time (May and June) when it is in season. is usually a second crop



Dutch Oven

cording to some, Q. pubescens, so closely London. She avoided all make-up and allied to the common oak (Q. Robur) ner art depended more on sympathetic as to be reckoned only a variety of it. Its wood is, however, darker, heavier on the usual theatrical emotionalism and more elastic, less easy to split, Her most famous plays included La Damo not so easy to break, yet the least aux camélies, Sudermann's Magda, and difficult to bend. It is highly valued, d'Annunzio's La Città morta, La Giotherefore, by the builder and cabinetmaker. maker.

Duroc (du-rok), Michel Gérard Düsseldorf (dus'sel-dorf), a town of Christophe, Duke of Friuli, a distinguished general under Bonaparte, was born at Pont-à-Mousson in 1772; and gardens on the right bank of the killed in 1813, at the battle of Bautzen. Rhine, 22 miles N. N. W. of Cologne, one of the served as aide-de-camp to Napoleon the handsomest towns in the valley of in the Italian and Egyptian campaigns. the Rhine. It is a great focus of rail-in 1805 he was made grand-marshal of way and steamboat communication, and

prisoned Richard Cœur-de-Lion on his and the trade is return from Palestine, 1192.

Duruy (dû-rû-ê), Victor, a French historian and educationalist, born at Paris in 1811. He was appointed successively teacher of history in the gymnasium of Henry IV, then at the Normal School and the Polytechnic School, inspector of the Academy of Paris, inspector-general of secondary are put up at a ducation and minister of public instructions and minister of public instructions. Normal School and the Polytechnic Dutch Auction, a kind of auction School, inspector of the Academy of Paris, inspector-general of secondary are put up at a high price and lowered education and minister of public instruction (1863-69). He is author of the tion (1863-69). He is author of the Clover, Trifolium repens, following works: Geographic Politique de White clover, a valuable parture plant tollowing works: Geographic Politique de la République, Romaine et de l'Empire, white clover, a valuable pasture plant. Geographie Historique du Moyen Age, It has a creeping stem; the leaflets are Histoire Romains, Histoire de France, broad, obovate, with a horseshoe mark Histoire Grecque, Histoire Populaire Con- in the center; the white or pinkish flow-temporaine, etc. Some of these are ers are in a globular head.

simply schoolbooks, but his Histoire des Dutch Gold, an alloy of eleven parts Romains (translated into English) and private des Pinkishech et Con-Romains (translated into English) and his Histoire de la Grèce Ancienne (trans-his Histoire de la Grèce Ancienne (trans-lated into English) are extensive and Dutch Metal, an alloy containing important works, the former especially. Dutch Metal, 84.5-84.7 per cent. of

lar favorite in Italy, and in 1893 made Dutch Oven, a cooking chamber of her first appearance in New York and

tired in 1914.

the palace; and was frequently employed in diplomatic missions, though he still took his full share in the wars of France till the time of his death. He was a present favorite of Napoleon, and was founded in 1767 by the Elector Theodore, killed by his side.

Durra. See Dhurra.

Durranstein (dur'en-stin), a village in Lower Austria, on the Danube, 41 miles west by north of Vienna. Here are the ruins of the castle emprisoned Richard Cœur-de-Lion on his return from Palestine, 1192.

Thurrans (dur'en-stin), a village in Lower Austria, imprisoned Richard Cœur-de-Lion on his return from Palestine, 1192.

Thurrans (dur'en-stin), a village in Lower Austria, imprisoned Richard Cœur-de-Lion on his return from Palestine, 1192.

Dust-brand. See Smut.

Dutch (duch), the people and language of Holland or the Netherlands.

Duryea (dur-ya'), a village of Lu-copper and 15.5-15.3 per cent. of zinc, zerne Co., Pennsylvania, on with a fine golden-yellow color, ductile, the Lackawanna River, 12 miles s. w. of malleable and tenacious. When beaten Scranton. It has coaling industries. Pop. out by a process analogous to that for 7487.

Duse (dö'sa), ELEANORA, an Italian 1/50,000th part of an inch thick, it conactress, born in Vigevano, on the stitutes Dutch leaf or Dutch foil, and is border of Piedmont and Lombardy, in used instead of gold-leaf for ornamental 1850.

Duykerbok (dol ker-box), Cephalois. Francis Flynn, General Mite, was only African antelope with short horns (none in the female) and a tuft of stiff hairs Dwarfing (dwarf'ing), the process of training up trees or shrubs

Dvorak (dvor'zhāk), Antonin, a Bohemian musical composer, Chinese and Japanese. born near Kralup in 1841; died in 1904. He first became widely known by his Slawonio Dances (1878). He was director of the National Conservatory of Music in New York, 1892-99, and in 1901 was appointed director of the Prague Conservatory. His symphony, From the New World, produced in New York in 1893, is came president of Yale College. His the most popular of his symphonies, and much of his concert music has earned a permanent place in concert programs. His works include an opera, König und guest of Canaan and Greenfield Hill, Köhler, a cantata, The Spectre's Bride, besides numerous unimportant works, consacteristically national, and owes much to melody and to the ingenious use of a wide Dwing (dwe-na). Northern, a Rusmelody and to the ingenious use of a wide Dwina

front of a fire, and used chiefly for roast. the usual size of its kind, particularly ing meat. Much used in former times. to a human being of small dimensions. Dutch Rush, Equisetum hyemāle, Accounts of dwarf tribes have been common as horsetails, with a firm texture located especially in Africa; and it has and so large an amount of silex in the recently been discovered, by Du Chaillu, cuticle that it is employed as a fine sand-Schweinfurth, and later travelers that paper for polishing delicate woodwork. There are several dwarfish tribes through. The plant is found in marshes and woods out this continent. The Obongo, a race in Britain, but for economical use it is of dwarfs, are described as living in imported from Holland, whence its popular name. It is sparingly found in the ed huts made of branches. Other races imported from Holland, whence its popular name. It is sparingly found in the United States.

Dutch Tears, a name for Prince are the Mabongo, and the Akka dwarfs of Central Africa (see Akkas): and a race is said to exist in the Congo State, not as a distinct community, however, but mixed with other tribes. Similar physiologist, born in Poitou in 1776; dwarfish peoples live in the Philippine died at Paris in 1847. He served for some time as medical attendant to Joseph Bonaparte during the Spanish campaign, and Negritos). Persons of dwarfish stat-1808-09; but subsequently he returned to France, and retired to the estate of Châteaurenault, where he devoted himself exclusively to physical and physiological studies. His chief works have been published in a collective form with the title Mémoires pour servir à though he afterwards grew to 3 feet 9 thistoire Anatomique et Physiologique inches. Bébé, the celebrated dwarf of des Végétaux et des Animaux (1837, two vols.).

Dutteeah, or Dattiya. See Datia.

Duykerbok

African antelope with short horns (none)

Dvina, Northern. See Dwina.

Dvina, Western. See Dwina.

Dvorak (dvor'zhāk), Antonin, a Bohemian musical composer, Chinese and Japanese.

The straining up trees or shrubs for ornament in houses so as to cause them never to reach more than a very small size, by keeping them in poor soil, giving them little water, pinching off strong shoots, etc. Practiced among the composer, Chinese and Japanese.

(dwe-na), Northern, a Russian river formed by the union variety of rhythms and intervals.

Dwale (dwal), a name of the deadly of two small streams in the government nightshade. See Nightshade. of Vologda. It flows in a northwesterly divarf), a term applied to any animal or plant greatly below the White Sea. At Archangel, before it divides itself, it is 4 miles broad. It is navigable as far as Suchona, and is connected with the Volga by canal.

Dyeing (dl'ing), the art of fixing a new and permanent color on textile substances, usually cotton, linen,

combining with other bodies is equivalent of two atoms of hydrogen.

Dyaks (dl'aks), the aborigines of Borneo, chiefly inhabiting the interior of the island. They are a finely formed race, of a yellow complexion, and superior to the Malays. The more advanced of them practice agriculture and dwell in neatly constructed and tolerably comfortable houses. In Sarawak they have made considerable advances in civilization. They are mostly heathens. The practice of head-hunting (hunting their enemies to make trophies of their enemies to make trophies of their enemies to make trophies of their enemies. See Borneo.

Dyas (dd'as), in geology, a name for the Permian system.

To it, as well as to remove any natural coloring which would interfere with the production of bright, clear tints. Cotton and linen fabrics go through a prolonged series of operations in bleaching (which series of operations in

nected with that of the Greek Zeus.

These dyes require the intervention of another agent to fix them on the different perean editor, born at Edinb rgh stuffs, and the name of mordant is apin 1798; died in 1869. He was educated plied to those substances which are emat Edinburgh and Oxford, but in 1827 ployed to make the stuff to be dyed and settled in London, where most of his life the dyeing color combine. Alum, acetate was passed. He first became known by of aluminium, chloride of tin, salts of iron, his editions of Collins, Peele, Webster, albumen, gluten, tannin, etc., are common Marlowe, Skelton, etc., accompanied by mordants. The mordant is generally disnotes and biographies of the authors. solved in water into which the stuffs to In 1840 he founded the Percy Society be dyed are plunged. In some cases it is for the publication of ancient comedies mixed with the color and both are Dyce (dis), ALEXANDER, a Shakes-

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Dwina, Western. See Dina.

Dyad (dl'ad; Greek dyas, the number two), in chemistry an elementary substance, each atom of which in combining with other bodies is equivalent combining with other bodies is equivalent coloring which would interfere with the production of bright clear times. Cotton, linen, silk and wool. Some preliminary operations are necessary in order to cleanse two), in chemistry an elementary two states of the dyad atom of which in the dyad atom of bright clear times. Cotton

Dyaus (dyous), the god of the sky in Ether of the Yellow the Permian system.

Dyaus (dyous), the god of the sky in the older mythology of the Hindus. His name is etymologically connected with that of the Greek Zeus.

These dyes require the intervention of In 1840 he founded the Percy Society be dyed are plunged. In some cases it is for the publication of ancient comedies mixed with the color and both are and ballads. His chief work, however, simultaneously applied to the stuff. An was an edition of Shakespere in six volumes, with notes, etc. (1853-58).

Dyce, William, an historical painter of the dye and thus enabling a variety of shades to be produced at small exnear London in 1864. He studied at Edinburgh and at Rome, and finally settled in London, being appointed, in 1838, head of the government school of design, somerset House. He was elected a the name of Aero-hydraulic Dyeing has Royal Academician in 1848. Among his chief works are Francesca da Rimini (1857); Joash Shooting the Arrow of Storm (1851); Christabel (1855); The Gardinent, and a series of frescoes of Parliament, and a series of frescoes illustrative of the legends relating to King Arthur, for the same.

Dyck, See Vandyck.

dyes. A kindred insect, Coccus iliois, produces kermes, an important red dye. Galls, which are used both as a dye and a mordant, are produced by the punca mordant, are produced by the punc-ture of insects on the leaves and branches genus as mignonette, otherwise called of the oak and other trees. Among the Yellow-weed, Weld or Wood, nat. order vegetable dyes in common use, madder, Resedaceæ. This plant grows in waste the root of the Rubia tinctoria, is per-haps the most important, furnishing vari-ous shades of red, purple, brown and er's Greenweed is Genista tinctoria. See of the oak and other trees. Among the Yellow-weed, vegetable dyes in common use, madder, Resedaces. the root of the Rubia tinctoria, is perhaps the most important, furnishing various shades of red, purple, brown and er's Greenweet black, as well as the famous Turkey red.

Dyer's-broom. black, as well as the famous Turkey red.

Munjeet is the root of a closely allied Indian plant. Logwood, Brazil-wood, sandal-wood, fustic, sappan-wood are the chief woods used for dyeing purposes. For blue dyes, indigo, obtained from Indigofèra tinctoria and Indigofèra Anil, is larations are, as a general rule, admissfull the most generally used. Safflower (obtained from the Carthamus tinctoria) according to English and American, yields a fine pink dye; various species of the couple dyes though not Scottish law, in the full conknown as archil, cudbear and litmus. Among mineral pigments Prussian blue, a ferrocyanide of iron; ultramarine, now prepared as a compound of alumina, Turnamatar (dI-nam'e-ter), an instruprepared as a compound of alumina, Dynameter (di-nam'e-ter), an instru-grepared as a compound of alumina, Dynameter (ment used for measuring prepared as a compound of alumina, silica, soda and sulphur; chrome yellow, cobalt blues and arsenical greens are the colors most in use. Among the most consists of a small compound microsco notable additions to the list of coloring with a transparent plate, exactly divid stuffs within recent years are the aniline which yield a great variety of brilliant of the distinct image of the object-glast colors such as magenta, many aniline. Also has some significance as Duncard notable additions to the list of coloring with a transparent plate, exactly divided, stuffs within recent years are the aniline dyes of coal-tar origin (see Aniline), which is fixed to the tube of a telescope, in order to measure exactly the diameter which yield a great variety of brilliant colors, such as magenta, mauve, aniline, purple, roseine, violine, etc. From coaltar also the two coloring principles of madder (alizarine and purpurine) have been artificially produced, and alizarine has almost entirely superseded the use of the madder root. There are few organic action of two mutually antagonistic forces the madder proper treatment cates of these two forces are attributed by Kant to motion. As applied to heat, late new coloring matters have been obtained from wood-sawdust, lichens, generally accepted as the correct one—mosses, paper and cotton waste, bran, sugar, soot, etc. In addition to simply a body the particles of which are

at Westminster School. He secame a Dynamics (di-nam'iks), the science capacity took orders and was appointed to a small living. In 1727 he published of force in their relation to matter at his poem of Grongar Hill, in 1740 The rest or in motion, and as such it is diffusion of Rome, and in 1757 The Fleece, ferentiated from kinematics, which conadidactic poem in five books. He died in 1758

the most valuable of scarlet and crimson Dyer's-moss, a lichen, called dyes. A kindred insect, Coccus iliois. Dyer's-moss, a lichen, called See Archil. Dyer's-weed, Reseda Luteola, a plant of the same

Among the most consists of a small compound microscope, the list of coloring with a transparent plate, exactly divided,

mosses, paper and cotton waste, bran, which represents a heated body as being starch, sugar, soot, etc. In addition to simply a body the particles of which are those above mentioned other dyestuffs are alkanet, annatto, catechu, camwood, movement increases as the body is still French berries, dividivi, sumach, saffron, more heated, and diminishes proportion-turmeric, woad, etc.

Dyer (d'er), John, an English poet is called also the mechanical theory of of the secondary class, born in Carmarthenshire in 1700, and educated at Westminster School. He became a Dynamic Unit. See Usit.

in 1758.

Dyer's-broom, an European and Newton that we owe the clear statement of the three primary laws of force.

American shrub (Genista tinctoria), formarely used with woad for dyeing green. in a state of rest, or of uniform motion

along a straight line, unless it is compelled by force to change that state. (2) stant. Dynamics is divided into two to the force exclusions along solid bodies at rest under the action of the straight line in which the force acts. of crees: and kinesies, which treats of the straight line in which the force acts. forces: and kinesies, which treats of the straight line in which the force acts. forces: and kinesies, which treats of the straight line in which the force acts. forces: and kinesies, which treats of the straight line in which the force acts of the straight line in which the force acts. The straight line is also and always an equal reaction. These laws, which were formulated from experiment, involve the consense dynamics includes also hydrogen action expressed in terms of space, the consense dynamics includes also hydrogen action expressed in terms of space, the consense dynamics includes also hydrogen and the analysis of space, the state of the straight line and matter. Now, in dealing with the state of the straight line and matter. Now, in dealing with the state of the straight line and matter. Now, in dealing with the state of the straight line and matter. Now, in dealing with the state of the straight line and matter. Now, in dealing with the state of the straight line and matter. Now, in dealing with the state of the straight line and matter. Now, in dealing with the state of the straight line and the straight line and the state of the straight line and the state of the straight line and the state of the straight line and the straight line and the straight line and the straight line and

The essential parts of any dynamo, ex-pressed in simplest form, are the field ternal armature. These may be well illustrated by the original disk machine of Faraday, where the iron magnet single phase. If, however, one or two

rent machines; the field magnet may revolve and the armature be stationary, as in most types of direct-current machines; the field magnet may revolve and the armature be stationary, as unpried by an exercit, a small separate stationary, as unpried by an exercit, a small separate stationary as unpried by an exercit, a small separate stationary as unpried by an exercit, a small separate stationary as unpried by an exercit, a small separate stationary, as in a supplied by an exercit, a small separate stationary, as in a supplied by an exercit, a small separate stationary, as in most types of direct-current machines; the field magnet may revolve and the time and the stationary as in a supplied by an exercit, a small separate stationary, as in a supplied by an exercit, a small separate stationary, as unpried by an exercit, a small separate stationary, as unpried by an exercit, a small separate stationary, as unpried by an exercit, a small separate stationary as unpried by an exercit, a small separate stationary, as unpried by an exercit, a small separate stationary as unpried by an exercit, a small separate stationary as unpried by an exercit, a small separate stationary as unpried by an exercit, a small separate stationary as unpried by an exercit, a small separate stationary as unpried by an exercit, a small separate stationary as unpried by an exercit, and the stationary as unpried by an exercit, as a supplied by an exercit, and the stationary as unpried by an exercit, and the stationary as unpried by an exercit, and the stationary as unpried by an exercit stationary as unpried by an exerc of the other. An armature is made up of an iron core mounted on a shaft; a number of conductors wound upon the surface of the core or sunk in slots near loads.

its surface, and a commutator. The object of the core is to facilitate the passage mover, employed to drive a dynamo, may of lines of force from one pole of the field be the ordinary type of reciprocating steam magnet to the other. The armature wind-engine, or it may be a steam turbine, a of lines of force from one pole of the field magnet to the other. The armature windings consist of wires distributed over the water turbine, a gas engine, or any drivoutside of the core, and they constitute ing device capable of producing the maximachine. The commutator or collector turbine-driven generators, also called is that part of the machine through which the revolving armature connects to the as, being constructed to form part of the outside circuit by the brushes. The generator itself, they economize in floor brushes, made of carbon for high potentact with the commutator or collector; speed developed over the reciprocating steam turbine, a gas engine, or any driving device capable of producing the maxima device capable of producing the maximal dev ary outside circuit.

as first cost. Since the power of a genThe alternating current dynamo is diserator is dependent upon its speed

whereby a mechanical force tending to tinguished from the direct current mawhereby a mechanical force tending to move the conductor is produced. If motion result from this act of electric energy, that energy will become mechanical there may be internal rotating fields and
motion, and a motor will be required to
govern its application.

The essential parts of any dynamo, extionary external field and revolving in-

canno or raraday, where the from magnet single phase. If, however, one or two between whose poles the magnetic field more separate sets of coils are added reexists, is the field magnet; and the electrical conductors, represented by the so that their electro-motive forces had rotating copper disk, correspond to the maximum values at 180° of voltage, armature.

The field magnet, then, is the means of phase generator, and if 120° apart a three producing the magnetic flux. The magphase generator.

netic flux is created by a current of electricity traversing many turns of wires to generate a current made up of half-wound upon iron cores. A north or a waves of equal duration and intensity, south pole is produced, depending upon the direction in which the current flows an alternation; two half-waves, one comthrough the coil. The coils on the field magnets are connected in series and so arranged that the polarity changes consecutively from pole to pole.

The armature is a system of conductors The armature is a system of conductors alternators require direct current to excite moving in the magnetic field. The armature may revolve and the field magnet be stationary, as in most types of direct-curdirect current generator.

neid and armature coils may be stationary from which is rectified by a commutator and the iron core revolve, as in the inoutron the shaft of the revolving fields, thus ductor-alternator type. As the construction of armatures of direct current machines differs from that of alternating extensively used, however, because of meanines only in certain details, a description of the one may stand for that for regulating the voltage of the exciter according to the load on the main machine to secure uniform voltage with varying

magneto machines lies in their greater compactness, arising from the fact that electro-magnets are much stronger than permanent steel magnets of the same bulk. The extensive use of dynamos as the current of the improvements introduced in their control of the improvements introduced in their control of the improvements introduced in their control of their action, see Induction, and explanation of their action, see Induction, and of plants, which, when ignited, burns and explanation of their action, see Induction, and in limestone, with remains of fish struction by Gramme, of Paris. For an and of plants, which, when ignited, burns and explanation of their action, see Induction, and in limestone, with remains of fish struction by Gramme, of Paris. For an and explanation of their action, see Induction, and in limestone, with remains of fish struction of their action, and in the stometh of the draught-chain, and the amount of the draught-chain, and the amount of the force. See Dynamics.

Dynagraph (dir of graft), an appraision or collapse which if suffers indicates the intensity of the strain.

Dynagraph (dir of graft), an appraision or collapse which if suffers indicates the intensity of the strain.

Dynagraph (dir of graft), an appraision, or the force see Dynamics.

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Dynagraph (dir of graft), an appraision or collapse which is suffers indicates the intensity of the strain.

Dynagraph (dir of graft), an appraision or collapse which is unfers indicates the intensity of the strain.

Dynagraph (dir of graft), an appraision of the stometh of the strain of the stometh of the

that of the horse. The ears also resem- of the Chinese Empire in December, 1911, ble those of the horse. It runs with a and organized a government of its ewa.

ease of the heart or lungs. The treat-rapidity rivaling that of the best Arabian horses.

ment varies with the cause.

Dytiscus (di-tis'kus), more correctly Drucus. See Water-beetle.

Dzeren (dze'ren), Dze'ron, the Chinese antelope, a remarkably 48° N. lat. and from about 43° to see wift species of antelope (Procapra gutturōea) inhabiting the dry, arid deserts of Central Asia, Tibet, China and Southern Siberia. It is nearly 4½ feet in length, and 2½ high at the shoulder.

Dziggetai (dzig'ge-tl), or KIANG (Equus Hemiōnus), an animal found in Central Asia, allied both to the horse and ass. It head is large like that of the ass, but in form resembles extan, as a consequence of the Chinese traiting from about 43° to ness territory in Central Asia, stretching from about 43° to see trail Asia, and pop. 600,000. It is administratively connected with Kuldja and after the surrender of Kuldja by the Russians in 1880 came again under Chinese rule. Dzoungaria, once the center of an independent empire, was first conquered by the Chinese in 1757. Along with Outer Mongoli and Chinese Turkethat of the horse. The ears also resem-