
the advocate of industry and enterprise, and journal of mechanical and other improvements.

iuster thent in various mectlanieal trades, and goua
them against impositions. As a family newspape then against impositions. As, a family newspaper,
will convey nere useful intelligence to children an
young people, , han five times its cost in schoul instruc
 year, when the volume is complete, and will probably
command that trice in cash, if we may judge from the
circumstance that old volumes of the "New York Me.
che Terms. ". "The Scientific American" will be furnished
to
subscribers at $\$ ?$, per annum,-one dollar in advance, and the balance in six months.
Five copies willhe sent to one address six montlis, for
fuur dollars in advance. $\begin{gathered}\text { four dollars in in advance. } \\ \text { Any person proeuring two or more subscrihers, will be }\end{gathered}$
.


The Printer's Song.
Print, conrades, print; a noble task
Print, conrades, print; a noble
Is the one we gaily play;
Tis ours to tell to all who ask
The wonders of earth and sky
We catch the thonght, all glowing war
As it leaves the student's brain;
And place the stamp of enduring form
On Poet's airy strain.
Then let us sing, as we nimbly fing
The slender letters round; A glorious thing is our laboring,
Oh where may its like be found

Print, conrades, print; the fairest thought
Ever limned in Painter's dream,
The rarest form e'er sculptor wrough
By the light of beauty's gleam,
By the light of beauty's gleam,
Tlough lovely, may not match the
Which our own proud art can claim-
And its breath - the voice of fane.
Print, comrades, print; God hath ordained
That man ly his toil should live;
Then spurn the eharge that we distaine
The labor that God should give!
We envy not the sons of ease
Nor the lorl in princely hall,
But bow before the wise decrees
In kindness meant for all
Then let us sing, \&
Articles found in a Kitchen Draw Th ee aprons. two dusters, the face of a pig,
A dirty jack towel, a dish-clout and wig; A foot of a stocking, three caps and a frill, A busk and six buttons, mouse trap and quill,
A comb and a thimble, with Madona bands. A box of specific for chops in the hands;
Some mace and some cloves tied up in a rag And empty thread paper, and blue in a bag;
Short pieces of ribbon, both greagy and Short pieces of ribbon, both greasy and black, A grater and nutmeg, the key of the jack;
An inch of wax candle, a steel and a fint, A bundle ot matches, a parcel of mint; A lump of old suet, a crimp for the past,
A pair of red garters, a belt for the wais A rusty hent skewer, a broken brass cock,
Some onions and tinder, and the drawer lock Some onions and tinder, and the drawer lock;
A bas for the pudding, a whetstone and strin A penny cross bun, and a new curtain ring A print for the butter, a bunch of old keys, Two pieces of soap, and a large slice of cheese,
Five pewter tea-spoons. a large lump of rosin, The feet of a hare, and corks by the dozen;
A card to tell fortunes, a sponge and a can, A card to tell fortunes, a sponge and a can, A rolling-pin pasted, and common-prayer book,
Are the things which I found in the drawer of the cook.

neither a full nor se tind this invention a difficult subject to illustrate, and are constrained to adopt a mere outline engraving for this purpose shew the principles of its construction. It consists of a series of flumes four or five feet in lengeth and so arranged that when placed in the hold of a vessel, a very slight rolling motion of the vessel will cause the water to ascend from the bottom, through the series of flumes, till it is dischar-
ged above the deck. Fach flume is two feet wide and one foot deep at one end, but only one foot wide and sive inches; deep at the other. The first flume, A a, is open at the large end, at A, and is placed crosswise, or at right angles with the keel of the wassel, so that when the vessel careens to starboard, the water in the hold, enters at $A$, ant is discharged into the next flume, $\mathbf{B} \mathbf{b}$. Then when the vessel rolls to larboard, this wa
ter rushes through the flume B h, and is discharced into the flume $\mathbf{C}$. and
into the flume E C , while another quantity passes through $\mathbf{A}$ a, into $\mathbf{B}$ b. In thex way the water progresses upward in considerable quantities, by the rolling motion of the vessel, through F, $\mathbf{F}$, II, \&c., till discharged above the deck of the vessel, as representell at $P$ : it leeng understool, how ever, that the series is to be extonded higher in ;roportion to the length of the flumes, than is represented by this engraving. It may be thought preferable, in some cases, to make the flumes longer, and place them forc and aft, or in the direction of the kecl, that the water may be elevated by
the undulating inotion of the bows and stern of the vessel : but in either case, the water is sure to ascend from the hodid to the deck, whenever the vessel is subject to any considerable motion by the swell of the sea. This pump was invented by Mr. T. Rolbjohn, of this city, and a molel there
ver

## Im Benc tend tal S pal Ses pren inven tic sai

 ral Society, at their mouse of in He Royoul $\Lambda$,rricupresented the
 transfers the draught from the hitherto iujurion
position, at the point of the shoulder,) to th the
withers or front of the spine, thereby imparting
reeat incese great increase of muscular power to the horse ove
his load giving him he cutire and fiece use of hi
fore limbs, and at the sime time protecting Core limbs, and at the same time protecting hin
from the suffering of galled shoulders. Many of
the first veterinary sursens in the the first veterinary surgeons in the country having
acknowledged that these benefits are secured by
Mr. Bencrafi's invention, (the use of it having al ready released many horses from on their sulferings.
it is with great pleasure we recommend it it is with great pleasure we recommend it to th
pnblic ; and looking at the subject, whether regard
ed ed on the score of otility or humanity, we conside
Mr. Bencratit entitled to the thanks of he ctimmuni-
ty ard we rejo Iy, and we rejoice to hear that his inventions are
warmly patronized by that excellent institution, the "Royal Society for the Prevention of Cruely to
Animals." The saddle, which is already in exten sive use, affords a mechanical protection to the
spine and dorsal muscles, thereby enabling the
horse to carry his rider with increased facilitity aun speed, and at the same time allording a delightffully
elastic seat to the rider, by whicla concussion and eastic seat to the rider, by which
fatigue are almost wholly removed.
Bridge over the Niatara River--A writer
in the Rochester Advertiser was led to make the in the Rochester Advertiser was led to make the
following estinate of the cost of a stone bridge over
the niagara river at a point below tlie falls, where it is only 332 feet wide. The writer's calculations
are made for a rides are made for a tridge of ane is not at all douhted
practicability of the scheme
Supposing, says the writer, the brid ge to be 350 fee Supposing, says the writer, the bridge to be 350 fee
long and 30 feet wide, there would be room for long and so eeet wide, there would be room for
raiload track, a carriage way, and side wwalk fo
foot passengers. It is estimated to cost as follows $\begin{aligned} & \text { Excavation in the bank foundation, } \\ & \text { Plank centre } 440 \text { feet long, } 30 \text { feet wide, }\end{aligned} \$ 5,000$ 8 feet thick $1,300,000 \mathrm{ft}$. plank $\$ 7$
Expenses and putting up of centre Expenses and putting up of centre,
Stone masonry, 22,000 cubic yds. $\$ 4$,
Total
Dibcovery of the Magnetic Poles.-The Cin cinnati Chronicle has the following:-A scienific
gentleman, who was present at Dr. Locke's lecture gentieman, who was present at Dr. Locke's lectur
on MIonday evening, says it was remarkably inte resting. The subject was electro masnetism, heat
and their kindred topics. Among other things hh
mentioned the discoveries he had made anil macts accumulated in regard to the magnetic poles and the line of greatest intensity. This has been
subject of examination with him for several years. subject of examination with him for several years.
He considers now that the magnetic poles are dis.
covered, at least their immediate locality. His views on this subject have been confirmed by othe
observers observers. One of the magnetic poles is in Siberi
and another in the northern part of A merica. The

line of greatest intensity is near thes. | line of g |
| :--- | :--- |
| Superior |


 weaving both cotton and wool. Jeans, osnaburgs,
lincreys. lerseys and bedticking are made at Leba-
 cllothure One hall of thete hauds aree blacks-
slaves oif course-and they are said to be expert in almost tany department. The goods manufacture
are disposed of at home and in the S
Stat States. The Nashnime Or Orlinopolititu, from from which
we learn these ficts, considers that the success of we learn these ficts, considers that the success of
the factories in Tennessec disproves the opinion
held by many, tlat manufacturing establishment cannot be carried on with advantace where slaver prevails. The manufacture of blankets is about to Macnitude of tue Lakes.-Lake superior 400 miles long, 80 miles wide, 900 feet deepp, and
contains 32,000 square miles. It ts 596 feet above
 contains 82,000 square miles.
Lake Huron is 240 niles long, 80 miles wide, 100
and eet deep, and contains 20,000 square miles. It
571 feet above tide water. contains 2000 square miles.
Lake Erie is 240 miles fake drie is 240 miles long, 40 miles wide, 840
feet above tide water. 900 square miles. It is 565 L.ake Ontario is 180 miles long, 35 miles. wide
500 feet decp, and contains 6,400 square miles. It is 232 feet above tide water.
Lake St. Clair is 20 miles long, 14 miles wide feet above tide water.
American Les American Lakes are computed to contain 1,400
cubic miles of water,-more than one-half the fres water on the globe.
Marele Cemenr.-An improved cement has
been recently introduced which is attracting much becn recenty introduced which is attracting much
attention among builers. It is formed of plaster of
Paris, (Sulphate of Lime,) and Alum. Common boiced plaster is steeped in a solution of alum, an
recalcined, wwien it is fit for use. This cement is incapable of endoring the weather, and is principal
ly csteemed for the beautiful stucco which it forms and which, from its great hardness and brilliancy
of surface, hears a very near resenblance to marble It may be colored by simply imparting the desired of a very high polish, and is extinsively used for
interior decorations wherever its existence and the nterior decorations wherever its existen.
knowledge of its composition are known.
"I'Li, Consult my WIfe."-This is what ol
Judge Thateher, of Massachusetts, said to Blount of North Caroliua, when they were members of
Congress, at PhiladelphiaCongress, at Philadelphia-and when the later
challenged the Judge to mortal combat, "III con-
sult my wife, sir," replied the Judge, taking ofl his stree wornered hiat, and making a low bow, "an
three che is willing I will favor you with a meeting."
it she

The Great Waidiof China. - This stupendou wall, whicle extends across the northern bounds of
the Chinese empire, is deservedly ranged among the
grand
 across deep valleys. and over wide rivers, by mean of arches. In many places st it doubled and trebleded,
to command important passes; and at the distance of nearly every 100 yards is a tower or massive bas-
ion. Its extent is computed at 1500 hundred miles ut in some parts where less danger is appreliended it is not equally strong and complete, and torampart of earth. Near Koopckoo it is twenty five
feet thick; some of the towers, which are square, are forty eight feet high, and about forty feet in
width. The stone employed in the foundations gles, \& \& c., is a a grey granite ; but the materials, for
the greatest part consist of buish brich the greatest part consist of bluish bricks, and the
mortar is remarkably pure and white.

Anthracite Rallroad Iron.-The Philadelphia
Ledger says: "A Trail, 18 feet long weighing 50 Ledger says: "A Trail, 18 feet long weighing 50
pounds per lineal yard, manufactured by the 'Montour iron company,' at manville, Pa., with anthra-
cot coal alone, has been received for the exhibition cite coal alone, has been received for the exhibition
of the Franklin Institute, Philadelphia. This is one of the first rails manufactnred in America or in Eu-
rope of anthracite iron, and so far as we can judge of the quality from an inspection of the bar, taking rom the celebrated Montour's ridge ore without any admixture of cinder iron, we think there is ever probability that it will be found to render much bet-
ter service than the imported English rails. It is also a highly creditable specimen of A merican me
chanical skill in heavy manufactures. We congrat late Pennsylvania on this new source of wealth own railroads will soon become an article of ox-
port. Thus Pennsylvania, like Sparta of old wil port. Thus Pennsylvania, like Sparta
pay off her debts with her iron coin."

Painter's Miseries.-Requesting a lady who is by looking at you in order to get a peculiar expresing, at your stupidity, exclaims, "Why, indeed, sir
I have been looking at you this half hour." Hear
He ing a person say, ". Well, to be sure, if it wasn't for
he face, I should think that was meant for Miss E, it being intended for that identical person. Paint
ing an old gentleman, who for the first hour grins and chuckele you out of all patience, and thon, by
way of making amends, falls asleep the second.

Beaury.-An ancient impertinent rhyme, divides
emale beauty into four orders, as follove: "Long and lazr, little and loud,
Fair and foolish, dark and proud.
al ! the following is the true readin Tall and splendid, little and neat,
Fair and pleasant, $\dot{\text { ark }}$ and sweet, High and beauteons, litule and wity,
Fair and lovely, dark and pretty.

CATALOGUE OF AMERICAN PATENTS ISSUED FROM AUG. 16 th TO 26th, 1845 .
T'o Andrew Kayser, of Fulton, Mo., for improve'T'o Solomon Anderson, of Gैarretsville, N. Y., for improvement in hammers-20th Aug.
To Jordan L. Mott, of New York, for improvement in revolving chairs-Aug. 20 .
To Nehemiath P. Stanton, of Syracuse, N. Y., for Throvement in the manufacture or salt-20th Aug.
To Janes Leffel, of Springfield, Ohio, for im. provementit it the arrangement of wheels and shafts
ior ronmmunicatine power-20th Aue. or ronmunicating power-20th Aug.
To Francis S. Low and John S. Leake, of Alba-
yy, N. Y ., for improvement in cooking stoves-20th Aur. Charles Arthur, of Keeseville, N. Y., for im-
To Corement in tools for dressing grindstones- 26 th
provemient Aug.
 Petersburg, Va., for improvement in washing-ma-
chines-26.h Aug.
To David Harrington, of German Flats, N. $Y$ for
 provement in washing--machines-26th Aug.
To John Young, ol West Golway, N. Y., for improvement in boot-crimps-26th Aug.
To Joel $H$. Roses or New York, for improvement
 provennent in bee-hives-26th Aug.
Potlents Re-issued from the 1st to the 31st day of To James Roy, Jolin Knower, Benjamin Knower,
and Audrew Roy, of Waterviet, New York, for improvement it the machine for making burts, and
hinges: original patent dated 17 th May, 1836-reTo Sanuel Rust, of New York, for improvement in lamp-wicks:- original patent dated 4th April,
$1345-\mathrm{rc}$-issued 1 Gth Aug., 1845 . PATENTIS ISSUED IN 1844.
Li.ass XIV.- Lommbinuer, includitge machines and
tools. jor preparing anul manufacturing-succh as tools jor preparing anl manufacluring-such as
scuucing, pleining, mortising, shingle and stave, carpenters' (ant 'onpers' implements.
Machlinery tirr naking barrels, Isaac Crosset1, Improvement in machinery for cooperage--Ho-
race Baker, McLean, N.Y.-July 30 . Method of securing boring nachines to the arti-
cle to be bored, Peter Baylor Salen cle to be bored, Peter Baylor, Salem, O.-July 1.
New machine for boring timber, Thos. J. Russell, Franklin Square, O.-Oct. 3 .
Machinery to prepare wood for making boxes, J . Improvements in the mode of spliting hoops,
William Rease, Philadelphia, Pat., -Sept. 3 . Lathe for turniug boits' oarss, B. and A. F. Pot-
er, Hubbardstown, Mass.-Jinn 2 . Lathe for turning irregular forms, Edwin Tuck-
er, Bucyrus, O.-Oct. 24. Improvement in lathe for turning spons, J. H.
Cary, North New Salem, Mass.-Aug 21. Lathe for turring wood tapering. Wyllys A very,
Salisbury, N. Y.-June 5.
M. Method of S.- Sawing laths and clapboards, E. C.
Gilman, Canan, Ct.-Aug. 23 . New machine for setting logs on the mill-car
riage, W. B. Palmer, Brookfield, N. Y. - July 4 . mode of cutting match splints, Hervy Law,
Improvem. C . Aug. 28.
Im se Improvement in setting the bitt in bench plane,
Levi Sanford, East Solon, $N$. Y. V , Nov. 26 .
Circular save for cutting off piles under water, E E. Cole, Boston, Mass.-Sept. 14.
Improvement in the manner of applying the eir-
cular saw in sawing lumber, John K. Mayo, Orcular saw in sawing lumber, John Mayo, Or
rington, Me.-March 20 .
Ma Machine for filing saws, Calvin B. Rogers, Say-
 May 6 th.
Setting
logs on Liberty townsluip, O-Oct. 9 .
Improvement in the mode of steadying the logs
on the carriage, Henry Stanton, Richland - July 116 . H . Head and and tail blocks of saw-mill, Thos.C Theaker, Bucyrus, O-Jan. 20 .
Self-acting head and tail blocks of saw-mills, J. J. Parker, Plymouth, O.-June 13 .
Improvement in the mode of seting logs on the
mill-carriare, F. M. Stetson, Sangerfield, N.Y., and mill-carriage, F. M. Stetson, Sangerfield, N.Y., and Mode of setting saw logs and opening and shut-
ting the gates of saw-mill, N. P. Stearnes, Linklean, T. - Oct. 30 . Machine for making scythe-handles and other ar ticles, James Embree, Marshalton, Pa., Aug. 7 .
Improvement in the metho of cutting shingles,
Wm. Wood, Westport, Ct. : March 10: J. C. Gill lott, Bloomlield, Mich., re-issued Aprii 3; Jonathan
P. Bartley, Flanders, N. J. : May 25 ; Tillot Cole Mode of sawing shingles, Israel (G. Johnson, Au-
gusta, Me. - Aug. 12 . Improvement in the method of shaving shingle,
Simeon Wood, Worcester, Mass.- Jan 15 , Tenoning and morcestering mass.-Jan. Ib.
man, Northifield, Mass.., May 25. 2 . man, Norththield, Mass., May 25.
Tongoing and grooving, Chas. W. Brown, Bos-
ton, Mass.-Aug. 14 . Improvement in the bench-vise, Lawren M. Peck
Philadelphia, Pa. - July 18,

NEW.York THuRSD Coprovdent--We have received seve tions, \&c., during the week past, and shall notic Back Numbers.-As the demand for back numrearg shall supply all who may order them in due season. To you, Reader, in particular : we would ju say in a whisper,--if you like this paper pretty well
don't forget to speak of it to your neighbors at every opportunity; but if you don't like it, why then just please to hold your tongue,-that's all.
The Univirsal Revolivtion, by the Progress of Science, may be an appropriate title to the "narraluded to in our last number. We shall probably commence the publication in this paper in two or numbers: our engravings for the work are already in progress.
Communications--Our patrons and readers are chanical Invequested. factories, \&c., that may come under their ohserva tion, and may be deemed worthy of public notice. with pleasure

New Arrangement.-We have the satisfaction to announce, that, for the advancement of our facili er to which our favorite "Sci. Am." has already at tained, we have made arrangements with Mr. Samuel S. Mallery, a gentleman of well known abilities, per; and that it will in future appear under the names of Porter \& Mallery.

| fact that quadruple power is required to prodouble velocity, may be in some measure illused by the subject of re-action. It has been bestated, that a specific power implies force, dise, and time: and there can be no such thing as exerted without a corresponding re-action. $\qquad$ $\qquad$ <br> on, is no greater than that exerted in the oppoll and powder sufficiont to project the ball with locity equal to one mile per minute: and if the of one mile per mimute,- -then, if the gunis disged in a direction contrary to that of the moof the rar, the fioree exerted on the ball will : so that the ball. whon it leaves the gun, will vertically to the carth. Now for the convenience gun is the one-sixtieth of a mile, so that of required lor the ball to pass out of the gun, is second. Then, if a greater force is exerted, ao project the ball with an equal velocity in the as double velocity-the time occupied by the passing out of the gun, is a half second. Now appear evident, that the exertion of merely the original force, continued only half of a d, cannot produce double the velocity, notanding that double the power has been apas appears from the circumstance that the has been doubled, to the extent of the original nee-the length of the gun; but let this double be applied during the time of one second, thus double the distance-which is evidently rete to produce a double velocity-and the power ied will prove to have been quadruple ; because uble force has been applied to a double distance hstanding that the time has been equal. To to the subject of re-action; in all applications ce, it must be exerted in at least two opposite ctions at the same time. Even the attraction of $y$, which impels a falling body towards the is at the same time equally exerted to impel th towards the falling body. And when a is discharged, a motion is produced in the gun, confined, much greater in proportion to its t, than to the ball. But if an open gun barcharged in the centre, with a ball on each of the powder, both balls, when discharged, be projected with equal velocity. We will e then that this central charge is sufficient ect both balls with a velocity of one mile per ; and that the gun is on board a car that is $g$ with a speed of one mile per minute; if the of the discharged in the direction of the mowhile the other will have acquired a velocity of miles per minute. Now it will be readily seen as much force must have been applied to put alls in motion along with the car, before being harged, as would be applied by the explosion discharged: and this power, in addition to the le power of the charge, making, in all, quadrupower, must have been expended, and the t is double velocity in one ball only : thus cleardo produce double velocity. |
| :---: |
|  |  |


old stone tower, at newport, r. I.
This mysterious monument of antiquity, which appears to have excited but little curiosity for cen-
turies, has now become one of the wonders of the world. The building, of which the above is a cor hill in the town of Newport, R. I. It is built rough pieces of stone, laid in courses, strongly ce
mented by a mortar of sand and gravel, which near ly equals the stone itself in hardness; and appear to have been covered with a plaster of the same
material. It is nearly twenty-five feet in height; its diameter outside is twenty-three feet, and insid eighteen feet nine inches. It is circular, and is sup ported upon eight arches resting on the high ; the height of the centres of the arches from the ground is twelve feet six inch feet. The columns are peculiar, having only hal
the capitals, which seem to have been simply rounded slabs of stone, of which the part projecting on the
inside had been cut away; hollows are formed in the interior of the walls at some little height above the arches, as though intended to receive the ends of beams and rafters to support a floor which formerly
was there, according to the testimony of some of the older inhabians of Newport, and which is sup posed in a scene described by Cooper. The build in the engraving. The tradition of the town is, that it had once a circular roof, and that it had been used

## Scraps of Curious Information

The number of different plants in the world has
been estimated at from 30,000 to 100,000 . The lar bees Tree in the world is in $\Lambda$ frica where several
gre negro families reside inside of the trunk.-The lar Cow Tree' in South America produces mill from which the people obtain regular supplies.-There 60 of pinks. - There are 360,000 seeds in the cap sule of a Tobacco plant. -The Nepenthus, of India furnishes water in its leaves, which not only have
pitchers but covers to them.-The Pear leaf has 24, 000 pores to the square inch, on the under side.The Pink has about 38,500 . Some plants have many as 160,000 .-- There are 140 different species of Oak in the world, 70 of which are found in Amer-
ica and 30 in Europe.--The iargest Oak in the world is in Dorsetshire, England, which measur 68 feet in circumference.----There are 40 differe lumbia river, is the tallest tree in the world, as it grows to the stupendous height 234 feet.-- The Can
ada Thistle, the enemy of all farmers, is a native o Canada, but it has crossed the Atlantic, by means
of vings with which its seeds are provided.---Barley of uings with which its seeds are provided.---Barley
has been sowed, with success, 140 years after it was produced! Wheat may be kept with the germinating principles for ages. Seeds of different grasses
will vegetate after having been buried in the earth a thousand years.---The Ewe Tress of Surry, Eng land, stood in the days of Julius Ceasar. Theng an apple tree in Hartford, Conn, 200 years old; Fig tree in Palestine 780 years; an Olive tree Asia Minor, 850 years old ; a live Oak in Louisiana,
1,000 years old ; a pine tree in Asia Minor, 1890 years old---A Ceder on Mount Lebanon, 2120 years old; a Chesnut on Mount $\not$ Etna (Sicily) 2,600 years old; a Sycamore, in the Bosphorus 4000 years old. -- -some person who has nothing else to do has as-
certained that there are 550,000 grairs in a bushel of wheat. -The diam of of wheat.-- ine diameter of each globule of blood seed of the puff ball or hycopudon, is 125,000 times smaller than a human hair.--The weight of a par-:cle--that is the smallest part of copper-is the one
hundred and four millionth part of a grain.--Gold can be beaten so thin that 1500 leaves of it would equal in thickness a common newspaper--or 212,-
000 leaves would make a thickness of one inch.-Cork, if sunk 200 feet in the orean, will not rise account of the pressure of the water.--Wrought
iron will hold up 40 tons to the square incl. 60 tons.---The strongest cable that can be made is of fine wire, which will hold 90 tons to the square inch---The population of the earth is estima-
ted at one thousand millions. Thirty millions die annually, eighty two thousand daily, three thousand four hundred and twenty one every hour, and
fifty seven every minute.--The 14th of January, on an average of years, is the coldest day in the year --In water, sound passes at the rate of 8,508 feet per second. In air, 1,142 feet per second.---In the ar-
tic regions, when the thermometer is below zero, persons can converse at more than a ${ }^{\text {a }}$ mile distant. sermon at the distance of two miles.
and a powder-magazine. What excites so much curiosity concerning this tower, is the fact that no
person living in or about Newport, knows anything of its origin, and no record is found in history of its being seen or noticed by the early settlers of th Island. While it appears very improbable that by the aborigines, or that it should have been dis covered by the early settlers, without some not thereof being made by the historian of those times
it is still more improbable that such a building should it is still more improbable that such a building should
have been erected by either the early settlers or have been erected by either the early settlers or
their English successors. Much having been written on the subject by antiquarians, without approach ing any definite conclusion with regard to the au thor or occasion of its construction, we shall dis-
miss the subject with the simple conjecture, that it i a fabric of remote antiquity, intended for a temple of Pagan worship, and erected by the process of heaping up earth round the building as it progres
sed; thus furnishing facilities for elevatiog the stones, as has been practised by the Chinese an other nations: but that the sachem builder having died or failed before the building was complete, the earth was left around the edifice, till becoming over grown with rees the building was so far concealed
from view as not to attract the notice of the English settlers, until the land, being cleared, was gradually washed away by storms of rain, which, by a pro
cess too slow to induce remark, eventually brought cess too slow to induce remark, eventually
the whole fabric to view from its foundation.

The stermship Freign New:. Boston Thursday last, having made the passage in fifteen days. Thicre is but little news of inportance to any but flour dealers, by this arrival. The accounts
of the general failure of the potato crops, by the rot especially in Ireliand,
ter had occurred
many of the louse
The Madrid Journals of the 114 and 12th are chiefly filled with particulars of the grand levée
held in honor of her Majesty's birth-day, whlich was attended by at least thirteen hundred persons.
Accounts from Italy report that the Pope and Car dinals had retired to the Palacc of St. Angelo, Rome, for personal safety. The States of the
Church are convulsed by revolutionary conspiracies against the
The Railway speculation in England has received a severe check in consequence of the withdrawing by the Bank of England, of facilities from per
 consist of mixed metals, it is sent intu the melting department, placed in a red-hot, clean, blacklead pot melted, stirred up and mixed, and cast into a homo-
geneous bar. It is next given to the assayer, who cuts off a piece of the bar, rolls out the piece, clip grammes thereof, which he wraps up in lead, and places upon a white-hot vessel of bone parth : the whole melts, and oxidizing, every thing present is
readily absorbed by the bone earth but the silver or the gold. By weighing what remains, if of silver the degree of fineness of the mass is ascertained
But if the assay be one of gold, it is removed from the bone earth and melted with about three time its own weight of silver,--the alloy is rolled out and
subjected to the action of hot nitric acid which dissolves the silver but leaves the gold refined and

## pure

A Wonderful Stone.-A writer in the Bosto Mail, in expatiating on the excellence of the Bra
zilian pebble for spectacle glasses, mentions, zilian pebble for spectacle glasses, mentions, among
other excellent qualities, that they will constantly adapt themselves to the eye, so that there is no ne cessity of changing them as the eye grows old.
course, the pebble glass must constantly swell increase in convexity, during the life-time of the

The best mbthod.-The way to make people rorsake their errors, is to treat them kindly. Speak
to them in a calm and gentle manner. Harsh words should ncver be indulged in, thinking to reform any one. If a person wishes to correct me of any fault he must do it kindly and affectionately, or I should be much worse for his interference.
In our list of letters on the fourth page, we have omitted some letters which were destroyed by the will have no occasion for anxiety on that account.

## Théart of Painting (Continued from No. 10.)

Gulding on Glass.-The glass must be washed perfectly clean and dried ; then damp it by breath-
ing on it, or wet it with the tongue, and immediate ly lay on a leaf of gold, and brush it down smooth When this is dry, draw any letters or flowers on the gold with Brunswick blacking, and when dry, the superfluous gold may be brushed off with colton leaving the figures entire. Afterwards the whole
may be covered with blacking, or painted in any olor, while the gold figures will appear to adva tage on the opposite side of the glass.
may be elegantly sladed by scratching through the gold with a steel instrument, (in the end of whic nany sharp points are formed) previous to laying
on the blacking. Oil paints of any kind may be substituted in place of the blacking, but will not dry so quick. Silver lea? may be managed in the same he coloring laquers must be spread on the parts re quiring it, before the silver is applied. Splendid or ine the outlines, as described in painting on glass and having judiciously applied the laquers, the le golu or silver--may be laid over the whole as above
described. Then if any fine black lines or deep shading is required, it may be effected by scratch
ing through the leaf with a pointed instrument, ant inished by a full coat of blacking over the whole being understood, of course, that the ornament
to appear from the opposite side of the glass. Brunzing on Glass.-For this purpose the gla ay be sized with a very thin coat of dilute cop bronze may be applied through stencils, as describe in ornamental bronzing : but if the bronzed figure are to be colored, the outlines of the figures must irst irrawn, and the several points stained with quors, before the glass is sizcd for the bronze. Aft the bronze is applied, the figures may be painted wid paque or body paints, and a final coat laid ove the finisling the paint may be scratched throug ith a point as before described, and these lines be ing slightly sized, the bronze may be applied to the borders may be formed by means of stencils finely cut for that purpose, the bronze being applied thro he apertures: and such border tigures may be forher beautified by having fine line figures drawn with a point through the bronze, prior to the final coat of black, by which the work is finished. The finite variety of beautifil franch, a field which wil fford both amusement and utility.

Amertican Facts.-It is among the worst omen nal fay, hat we have in the United States no na aveller in other lands finds everywhere the instihutions and productions of a people prized by themselves, though they may be condemned by stran-
gers. Here the order is changed. If any work in rature, art, or science, is hy an American, it matters, as allogether worthless, or as deserving avorable regard only on account of its resemblance o someching foreign. We recite a few facts, ad-
mitted by the world abroan, for the benefit of this sort of people. "The greatest man, "take him for all all", of the last hundred years, was Georg Washington, an American.
The greatest metaplysician was Jonathan Ed The greatest $m$
ards, an America
The greatest natural philosopher was Benjamin anklin, an American
The greatest of living sculptors is Hiram Powers, The greatest of living poets is William Culle The greatest of living historians is William H. Thett, an American.
The greatest living ornithologist is John Jame The grean Amert
The greatest of living novelists is James Fen The greatest living paint
Ine greatest living pain There las been no English writer in the presen ge whose works have been marked with more humor, more refinement, or more grace, than those The greatest lixicographer and philologist, since he time of Johnson, was Noah Webster, an Amer
The inventurs, whose workshave been productive of the greatest amount of happiness to mankind, in Whitney-all Americans.
If one of these facts or estimates is doubted we an prove them by forign authorities, and so pre-

From the Northwest.-Archibald McDonald Esq., who left the Columbia River about a year ago has recently arrived at Canada West, via the Lakes; the whole distance of the route having been 2,850 miles. He reports that in latitude 52 north, he visited a lake called the Council Punch Bowl, tuated 6,000 feet above the level of the ocean, into the Columbia, and into the Pacific Ocean, an from the other side, a stream that discbarged int McKenzies' River, and thus into the Frozen Ocean
A hove this lake, two mountains shoot their towerin pinnacles 12,000 feet above the ocean level,-higher han the highest mountain of Europe.
Inland Navigation.-A keel boat with emigrants rom New York, lately passed Cincinnati, having Eassed up the canal, entered the Erie Extension a and the Allegheny river to Pittsbrgh, and down the Ohio, nearly 1000 miles to her destination. We should think this a beantiful route for some smal fancy steamboat to run with a party for pleasure
Who will join us to make the excursion in May
next

"Madam," said a boarder to the landlady, "you not enough?" inquired the lady. "O yes plenty of it, such as it is.
The Duke of Newcastle has an rstate twenty himney-piece alone having cost 72,000 dollare, The poor fellow is to be pitied.
Reaumer ascertained that 336 common bees weighed an ounce: about 5000 to a pound. Yet his number are capable of conveying more than
$\Lambda$ writer in the European Agriculture, recommends to butchers, when killing animals, to avoid
the presence of other animals of the same kind, as The editor of the 'Picayune' says that he onice aw John P.Gough in the character of Deacon Cirant, Theatre in Boston.
The French ladies are adopting mamertine habit; earnest. To see then with hightireted onot,
segar in moull, and cane on hand, creates no: prise in Paris.
The editor of the "Yankee Blade" having reently got married, is said to be double-bladed, and le of the circumstance.
A lady asked Mr. Jekyll, "what was the difference e same," he answered, "as betw!" "Precisely an alligator." …............ The Charleston Patriot states that between 40,-
00 and and 50,000 sweet Oranges, of good flavor, 000 and and 50,000 sweet Oranges, of good flavor,
have been grown this year on James' Island, oppohave been gro
site that city.
A man was arrested a few days since, for appear ing in the streets in fashionable female attire. Had it not been for the huge bustle,
been no bustle about the affair.
At the Pottsville coal mines six hundred new ouses for miners have been built within the last mprovements.
Carter, the Lion King, has purchased the large
horse in England with the intention of sending him the United States. The horse stands 20 hand
The barn of M. P. Flanders of Bradford, V
burned on the 13th. Mr. F. had slept in the har with "dog and gun,"-the barn having becn fired
before,-and had just left it when the fire appeared A Frenchman replied to an inquiry concerning is health, that "he had one very bad cow." He ad learned that p.-1-o-u-g-h was pronounced plow, and concluded that $\mathrm{c}-\mathrm{o}-\mathrm{-}-\mathrm{g}-\mathrm{h}$ must spell cow
A devastating fire ooccurred last week at Sag Harbor, L. L. whlch destroyed from 30 to 40 houses and
stores, laying most of the town in ruin. Loss estrs ores, laying most
Another conflagration has occured at Quebe the flames of which were seen from Point aux Trem-
ble, a distance of 21 miles. We have not learned ble, a distan
Silk raised in Vermont is said to be larger and stronger, and commands a higher price, than that
grown in any of the southern or western states. The Loss by the great fire at Wilmington, N. C., th instant, was $\$ 90,000-$ or $\$ 40,000$ in merchandise and $\$ 50,000$ in buildings. Insured for $\$ 63,000$.
Messrs. Andrews \& Bennett, with their improved submarine apparatus, have raised about 150 tons of The new steam factory building in Portsmouth, hg 504 feet long, and calculated for 50,000 spindle A drop of rain, one-fourth of an inch in diameter, cannot attain a greater velocity in falling, than 33 feet per second.
The territory of Oregon extends 700 miles along the Pacific Ocean, and contains 360,000 square
miles: seven times as large as the state of New York.
The western papers complain of the depredations of burglars from New York. This must be a m
take, as there appears to be none missing here.

The steam-propeller Independence has been placed on Lake Superier, being the first steam ves. that ever floated on that lake
Mr. Israel Baker, of Stillwater, N. Y., a candidate for the Assembly, is one of a family of fifteen bro
hers, all of whom are said to be true democrats.
There has been raised in Rock County, Illinois, he present year, 700,000 bushels of
population of the county is only 7000 .
Snow is said to have fallen to the depth of near They have fine sleighing.
Since the Telegraph from Buffalo to Lockpo as been in operation, the Lockport papers publis Ole Bull has ordered one of Mr. Chickering' uperb Boston pianos, which he intends taking wit im to Europ
A beautiful girl in a ballroom at $2 \mathrm{~A} . \mathrm{M}$., is said A be very much like a cart wheel, because she
not only surrounded by felloes, but also tired.

Our paper is rather late this week, but with our

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| :---: | :---: | :---: | :---: | :---: |
| From the Democratic Republican. <br> y Mary carson <br> The winter is near withits cold chilling breath, And Nature is robed in the garments of death, Despoiled of their foliage, the trees now appear, And the leaves of the forest, are yellow and sere. |  |  |  |  |
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|  |  |  |  |  |
| The fowest have falede, their fragrane is isone, Ere sorrow's dark mantle its shallows had cast <br> A gloorio'er the future, and the joys of the past. |  |  |  |  |
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|  |  |  |  |  |
| The field and the meadows no longer are seen Arrayed in their beautiful vestments of green,On the hill and the valley, is written decay, And winds through the leafless trees mournfully play |  |  |  |  |
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| The krrds they have left us, the woodland and grove, <br> No lcnger is vocal with echoes of love; <br> ark the prospect aronini $A$, , is lonely and drear. |  |  |  |  |
|  |  |  |  |  |
| Though winter is new whe told chilling breath, And nature is roved in the garments of death,Sweet hope softly whispers, though dark be thy reign, The spring, lovely spring-time, will cheer us again.$\square$ |  |  |  |  |
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|  |  |  |  |  |
| The music of birds, and the hum of the bee Shall greet us again with their notes glad and free And flowers in beauty again shall appear,The heart of the mourner, to solace and cheer |  |  |  |  |
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|  |  |  |  |  |
| The fièlds and the meadows, in verdure arrayed, <br> And trees with their foliage, and dark cooling shade, Aff ord a retreat from the sun's scorching ray, And again through the wildwood we'll joyfully stray. |  |  |  |  |
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|  |  |  |  |  |
| Yes, the spring shall return, (tho' perhaps not for me,) And suns shed their beauty o'er island The forms that in embryo sleep in the earth |  |  |  |  |
|  |  |  |  |  |
| Will many a form once healthful and gay, <br> Be called to embark o'er Jordan's dark wave And pass to the silent embrace of the grave. |  |  |  |  |
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| Our Father in Heaven, on! grant we inplore, Ere death with its mandate shall summons away, A faith that can triumph over change and decay. |  |  |  |  |
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| May visions of glory from bright worlds of light, As earth is receding, unveil to the sight, Of spring-time eternal, where storms ne'er invade,Of fields ever vernal, by time ne'er decased |  |  |  |  |
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|  |  |  |  |  |
| There dwell the loved forms on that sunny shore, That cheered us awhile一their sorrows are orer Not given but lent by the Father of love, <br> To link earth with heaven, and draw us above |  | George F . Nesbitt Esq, at the corner of Wall and Water streets ; and is intended to pubbish the Tgraphic news, warm froTlis is a great country |  | An Exol Lss Jounsy.-We ere all travelerer.- |
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| The boys to play had gone, Save one who sat beside the door, Dejected and alone; |  |  | $\begin{aligned} & \text { pad } \\ & \text { pad } \end{aligned}$ | river of Death. It is crossed in a moment, and down the traveller goes the track of interminable |
|  | with which these hogs are fed, have a strong dash of alcohol in them; and you can hear the hogs squea |  |  | ases And yet hoverew in the passing multitute, |
|  | at the distance of a mile when they get to quarrel- ling and spreeing towards night, after having' li- |  |  |  |
|  |  |  |  | their future being. The following which we may |
|  |  |  |  |  |
|  |  |  |  | duote wel expresses strus statemen. |
| The rolling hoop, the bounding ball | Steir morals, | equally, hut in proportion to the circulation of each.'The reponts of each day's serin of Congtess, will, | jorit have hut to aseemble and dechre the minor- |  |
|  |  |  |  | If is the pourrey ofe elerrity. |
|  |  |  |  |  |
|  | by a famous new engine, the distance of 26 miles in58 minutes; being at the rate of 27 miles per hour. |  |  |  |
|  |  |  |  |  |
|  |  |  | $\begin{aligned} & \text { ten of ntteen thousand people, with a laree proper } \\ & \text { ty, the sufferance has ceased, and the sound of } \end{aligned}$ |  |
|  |  |  |  |  |
|  | less speed than 35 to 40 miles per hour: surh a tedious jog-trot, truly $\qquad$ | walking over a quarry, and small pitticles of thisstone adhering to the iron nail: in lis sandals. In | $\begin{aligned} & \text { hammers "closing rivets up" tells that the whole } \\ & \text { people must remove or be annihilated! When } \\ & \text { such principles of low as these shall be universally } \end{aligned}$ |  |
|  | India Rubrer.-The 'Express' says that every article of household furniture, including bedsteads, |  | adopeded, there will be very little in this world worihliving or. |  |
|  | bowls, and every kitchen utensil, except cutlery, |  ples, first discovered that at piece ol iron rubbed |  |  |
|  |  |  |  |  |
|  | the editor would contract to furnish us with a stove and pair of tongs, of that material. More as we think for.-The Lowell Courier | star, and he: was lhe first to apply needless on cen-tres for the purpose of navigation. John tried hisneedles at different places in Italy, and moored a |  |  |
|  | says, "Lowell is destined to be a much greater citythan any of us think for." Very much like what Ti- |  | smiling green foliage, fresh sea-breeze and genial sun, with temperatore at 80 , asks, "Who would |  |
|  |  |  this magnetic power was sile same on water is onland. The name of magnet was given to the louth stone, and to the neectle. | live a winter at the North that has ever passed one in Florida." Probably most of our population would |  |
|  | weigh more's you tink for, and I no doubt he weigh more as I tink for too." |  |  |  |
|  |  | land. The name of magnet was given to the loud- |  |  |
|  | A New Cryx-We are informed that a company has been formed, with a capital of $\$ 4,000,000$, for at its junction with the Mississippi, and laying the foundation ol one of the greatest cities iSo goes on enterprise and improvement. |  |  |  |
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|  |  | dead geese and ducks in all directions. It is com-monly reported, in this country, that fowls are not monly reported, in this country, that fowls are notliable to be injured by lighining, being protected by the non-conductive property of their feathers; buit appears that in 'Texas they have a ditterent sort it appears that in rexas they have a difterent sortof lightning which aims at the feathered tribe in preference to other objects. |  |  |
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|  |  |  | of Sunday week, and going out to ascertain thecause, found a man in the act of setting fire to the |  |
| Consecrated Bells.-The practice of conse-crating bells was introduced by Pope John XIV., A. |  |  |  |  |
|  | some manner. The fare from New York to Boston <br> is only $\$ 1, \approx 5$. $\qquad$ |  | seize him, a scuffle ensued, and Mr . W. was thrown down. In the meantime, Mrs. Wheeler came out |  |
|  | Water Thieves.-Some ingenious thieves latelyeffected an entrance into the store of Mr . P. Dodge, | $\$ 7,60$ for that paper, excuses himself by saying thatin the first place he never ordered the paper ; and | with a pail of water, extinguished the fire, and wentto her husbands aid. She broke the pail over the |  |
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|  | wharf in Boston, by passing a boat under the storeand entering a hole through the floor, whereby they and $\$ 200$ worth of goods, and then pad |  | the fellow was secured. |  |
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|  | Utility of Frogs.-A lady in West Dedham the |  |  |  |
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