28,721.-I. N. Whitaker (assignor to himself, J. H Frees and M. Hellar), of Foreston, Ill., for an Im proved Apparatus for Heating Wagon Tires: I claim the combination with the outer pertithery of the tire box B
 with roller, $J J$, by which the tirese are suusp nded and
as set forth and represented, for the purpose specified.
[This invention consists in heating tires for wheels of any descrip tion by confining them within a suitable furnace and giving a revol ving motion to the tire or tires by any suitable means of hanging them on, or by any proper prine-mover, so as to submit them uni formly to the direct heat trom the fire. The apparatus is so con structed that it will be easy of manipulation, and so that it may $b$ used equally as well within the workshop as out of it.]
28,722.-S. II. Whitaker (assignor to himself and Wm. L. Thomas), of Cincinnati, Ohio, for an Improve ment in Gas Regulators:
I claim, first. Int he described con nection with recetving and dis-
 posite sides, of the entering and escaping gas,
forith
subetantiall
 the apparatus irom the exterior.

Wm. S. Carr, of New York City, for an Improvemen in Water-closet. Patented Aug. 5, 1856
I claim, first, A cylindrical plunger or pluk, 3 , substantially a
 tinguibhed frioma valve which requires compre sion to a given point
before closing a before closing, a yet forth.
Second, I Clain the valve.
bination with the seat, $v$, and acting in the mannerand for the pur ${ }^{\text {poogeaget forth }}$ Third, I cla in,
trolling the motion of sairl valve in closing gradually, nabstant ialle
 closing agniust the containing cyinder in the other direction, and the
leather, of set for forth.
 admittin water, as specified.
sinch, c chim the combination of the lever, p , latch,, and valv,
siseribed, for regulating the movements of the pan,


 the hopper, a hiollow arm, o, or opening into said hopper, substantially
as spepificd for conveging leakege from said cock iulo the hopper,
as bet forth. as
J. P. Collins, of Troy, N. Y., for an Improved Wate Whecl. Patented Dec. 6, 1859:
I clainn, first, The antrangement of the lighter plate. L, in the par
ticular inanner specified, and for the purpose set torth. tichliar inanner speciined, and for the purpose set torth. the thacking ringr, forthe purtwe ene forth.
Hip or projecting piecement, in the the purticuralar manner specified, of the Fourth The arraneement, in thine particular mannoer set for thi






Nathaniel Drake, of Newton, N. J., for an Improvement
in Corn-shcllers. Patented April 3, 1860:
I claim, iritt, The combination of a plate, E , which pressen directly





 suard chain, , as and for the purpose shown and deacribed. P. G. Gardiner, of New York City, for an Improve ment in Springs for Railroad Cars and Carriages. Patented April 26, 1859
I claim primarily the combining and arranging two blades, ben
elliptically, with ind intermendite pate curven or corrugneed, Bo that the incermediate plate ncts on ly by te ision or strain apart from
 cal blades and teasion barat the ends without rivets, pins,bolts, hinges
or screwo.
William Godsoe, of Manchester, Mass., assignor to him self and Isaac Ayers, for an Improved Steering Apparatus. Patented June 7, 1859:
the toothed semment, M, traryerging on the curved way, $P$, nn 1 oper the to thed senment, M, traterer
ating subotantianill as dencribed.
John Wyberd, of New York City, for an Improved Night-light Reflector. Patented April 10, 1860:
 Turner Williams and David Heaton, of Providence, R. I., assignees of said Turner Williams. for an Im claim the described window. ston coniisting of the roller, , the
 forth.
additional improvement.
J. C. Dickey, of Saratoga Springs, N. Y., for an Improvement in Machinery for Crushing Quartz. Pat ented May 16, 1860:



hotloms of the said channels, in contsct with quicksilver, for the pur
pose of eecuring the gold.
R. D. Granger eftersion.
in Cooking of Albany, N. Y., for an Improveme Alen. Patented June 13, 1846:
I claim lociting the pipe communicating from the body of the stove
to the elevated oven between the two back boilers, overer edfe shall be contienions to the fire, in combination with the
division strips, $h$ h h $h$, and the dampera
 damper, $j$, in crder to throw the heat throush two side fues, i $i$, an I turther claim forming the connecting pipe of the horizontal se
ion shown and descriled; that is to say, liaving the pipe made bro on its front side next the fire for the purpose of obtaining a large
capacityon pipe and also to bring the broadest portion of its section
in contiguits with the fire and accommodate the boilers in the rear.
A. Barstow designs. Cooking Range Cook's Range.
S. G. Smith, of New York City, for a Design for a Nut cracker.
L. W. Volk, of Chicago, Ill., for a Design for a Bust of Atraham Lincoln.
S. W. Gibbs, of Albany, N. Y., assignor to North Chase \& North, of Philadelphia, Pa., for a Design for a Stove.
J. L. Jones (assignor to himself and A. McDowell), of Slatington, Pa., for a Design for an Ornamental Ridge for Roofs.
E. J. Ney, of Lowell, Mass, assignor to the Lowell Manufacturing. Company, for a Design for Carpets
E. J. Ney, of Lowell, Mass., assignor to the Lowel Manufacturing Company, for a Design for Carpe Patterns.
N. S. Vedder, of Troy, N. Y., assignor to Tibbets \& McCoun, for a Design for a Cook's Stove

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J. M., of Ohio.-The practice of betting, even on ques tions of science, is a most unscientific way of making money whecome a richer if not a better man. In answer to and sou will however, we will state that your friend is right, and you have logit your wager, inasmuch as a gambler gazing upon a tsble could eaxily count the number of cards or coins spread upon another table
 phy of this paradox we reter you to page 325 uf hee present volume
D. S., of Ill.-We do not know where Dr. Maynard's rifles are manufactured. We believe he resides in Wa hington D. C., and he
cerning them.
J. W. W., of Iowa.-A cubic foot of hydrogen gas will raiseabout half an ounce at the surface of the earth. Oiled silk J. L. L., of Iowa.-We do not recollect having reccived your former letter. Steam may be carnied down to a depth of 200 feetina mine with well-covered copper pipes, and its pressur maintained a
above ground
J. C. R., of Mich.-Not a single fact has yet been ad duced worthy of notice in proof of a pre-Adamite race of men. The ridiculous attempts made by quasi-scientific men, to do this from in France, are not worthy of attention from men of sound judg. ment.
McA. \& Bros., of Ind.-Molds for wax figures are made of plaster, and are not oiled, but are first steeped in hot water for about half an hour, and then dried thoroughly. You state tha your wax figures have add 70 ired failure Wher your the the foilure. When you pour the wax into the plaster mold, allow it will be casily removed.
G. M. Jr., of Ill.-Two lightning-rods on a buildingone at ench cnd-are frequently connected together by a horizontal rod of the samo size. In the absence of such a horizontal rod, com mon wires may be usefully applied to effect the same object. It is
very dangerous, as you state, for persons to seek shelter under very anfres as trees during a hunderstorm, becaus lining alvayslakes the nearefl thest conductor to D. H. Jr., of $\mathbf{N} \mathbf{Y}$-The
pa aluminum bronze has bcen cepting ns new articles of manufacture, is not patentable.
G. R., of Vt.-Your idea in regard to obtaining butter from milk is to apply an air-pump to the chura and exhaust all the air from the cream, by which operation you expect the cream to swell, and the butter globules to bur $t$ from lt , and float on the top in golden-colored balloons. You agk our advice about trying the experiment. We exhort you to use your owa jadgment in the matter, bul inform you that your plan lo the ver opposite of that which is carricd out in what are caled almospheric churos. In these in it force
O. P. P., of Ind.-Rough sea shells can be polished smoothly by first rubbing them down with a file, then with emery
paper, and finishing off with rottenstone or tripoli. Somedhels, paper, son finishing off with rottenstone or tripoli. Someenelis
when polished, haves very beautiful appearance, but those which possess the most variogated hues and chosis authe aro found so
H. A. B., of N. Y.-We do not know what you mean bs inquiring. "Does the velocity of water give the overshot an advantage over the breast whee' $Y^{\prime \prime}$. Venice turpentine is extracted from the larch pine, and contains succiinc acid. It came from Venice first to England, hence its name. We have not epace to
glve you a treatise on dialling. Anyold encycloprodia will furniels glve gou a treatise on dialling. Anyold encyclopxdia will furniols
C. F. R., of N. Y.-The constant operations of a siphon depends upon the pressure of the atmosphere on the cutside, and a perfect freedom from gas or air inside. If carbonic acid or sul. phurous gas in the watergets into the siphon, it offers resistance to the outside pressure, and as a consequence, the flow of water is impaired. You will always find it difficult to keep a siphon free fromair and gas; make up your mind to irregularities in its operations.

## MONEY RECEIVED

At the Scientific American Office on account of Patent Oflice business, for the week ending Saturdas, June 16, 1860:J. M., of N. Y., $\$ 330$; J.S., of N. Y., $\$ 30$; W. J. C., of Pa., $\$ 250$; J. C. A., of Texus, \$30; E. M. J., of N. Y., $\$ 25$; J. W. T., of Vt., $\$ 25$; W. S. H., of Niss., $\$ 25$; N. A. P., of Tenn., $\$ 110$; M. F. J.,
of Tenn., $\$ 32$ J. B. F., of Ohio, $\$ 25$; J. R. L., of Mass., $\$ 30$; W. M., of Mass., $\$ 25$; R. M. G., of N. Y., $\$ 30 ;$ H. B., of N. Y., $\$ 20 ; D$. C. T., of Wis.. $\$ 30$; L. \& L., of N. Y., $\$ 30$; J. W. D., of Tenn., $\$ 30$; H. Y. W., of Pa., $\$ 30$; J. B. S., of Mich., $\$ 33$; J. I. B. R., of
N. Y., $\$ 30$; A. J., of N. H., $\$ 25$; P. d. O., of N. Y., $\$ 25$; J. H. H. B., of N. Y., $£ 10 ;$ J. S. G., of Mich., $£ 5 ;$ C. \& M., of Texas, $\$ 5$; C. C., of N. Y., $\$ 25$; S. A., of N. Y., $\$ 30$; E. S. C., of Mass., $\$ 25$; E.
 Conn., $\$ 1,550 ;$ A. H. ${ }_{1}$ of Lowa, $\$ 10 ;$ A. A., of N. Y., $\$ 3 ;$ G. W.
L., of N. Y., $\$ 30 ;$ J. L. B., of N. Y., $\$ 30$; L. S. \&i J. E., of N. Y., $\$ 30$; S. U. C., of Md., $\$ 100$; J. E., of Tenn., $\$ 25$; $\boldsymbol{\Lambda}$. J. V., of Ma. $\$ 25$; J. F. K., of N. Y., $\$ 30$; II. L., of Ind., $\$ 25$; C. H. B., of R. I.,
 $\$ 250$; J. B. McE., of Pa., $\$ 15$, J. I. F., of Cal. $\$ 30$; T. O. S., of $\$ 250$; J. B. McE., of Pa., $\$ 1$, J. I. Y., of Cal., $\$ 30$; T. O. S., of
Cal., $\$ 25$ : H. \& P., of N. Y., $\$ 300$; P. K., of R. I., $\$ 20$ J. W. B., of La., $\$ 15$; C. G., of Mich., $\$ 30$; D. T., of Ohio, $\$ 30$; S. J. P., of S. C., $\$ 30$; M. B., of Ohio, $\$ 30$; H. II. H., of Pa., $\$ 30$; J. G., of Fla., $\$ 30$; W. E. B., of Conn., $\$ 30$; II. F., of Ind., $\$ 25$; S. A, of
 Maine, $\$ 30$; W. H. G., of N. Y., $\$ 30$; W. II., of Ohio, $\$ 30$; I. G. M., of N. Y., $£ 30 ;$ W. F., of Mass., $\$ 60 ;$ W. W., Jr. of Pa., $\$ 250 ;$ E. S. L., of N. Y., $\$ 30 ; \mathbf{Z} . \mathbf{D}_{\text {., }}$ of Ga., $\$ 25$; E. H. B., of Mich., $\$ 55 ; \mathrm{J}$. C. of S. C., $\$ 30$; W. J. S., of N. J., $\$ 30$; C. \& L. L., of N. Y., $\$ 25$; F. N., of N. Y. $\$ 25$; W. II. D , of N. Y., $\$ 25$; A. S., of N. Y., $\$ 225$;
W., of N. J., $\$ 25$; II. L. N., of N. Y., $\$ 25$; C. P., of N. Y., $\$ 75$.

Specifications, drawings and models belonging to parlies with the following initials have been forwarded to the Pateut Office during the week ending Saturduy, June 16, 1850 :-
N. A. P., of Tenn.; J. B. F., of Ohto ; E. M. J., of Conn: W. S A. of Miss.; J. W. T., of Vt,i R.S. W., of Ga.; K. \& H., of N. Y. N. J.; N. Q. M., of Wis.; O. \& L., of N. Y.; G. A. L., of IL.; F. N. of N. Y.; J. C. C., of Mass.; W. H. D., of N. Y.; A. S., of N. Y.; H. L., of M.; O. H. W., of Miss.; E. B., of Mich., J. H. B. B., of N. Y.; A. M. W., of Ga.; E.S. C., of Mass.; H. B., of Ohio ; C. C., of N. Y.; J. H. B., of N. Y.; B. \& T., of Obio ; A. J., of N. H.; J. W.
D., of Mass.; W. M., of Mass.; H. L. N., of N. Y.; E. M., of N. J.; J. S. G.. of Mich.; T. E., of Tenn.; E. C., of La.; A. J. V., of N. P.; C. M. Y., of N. Y.; M. D., of Minn.; J. O. C, of Conn.

## inventors, machinists, Millwhights, and manufacturers.

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