FOREIGN SUMILARY-METALS AND MARKETS.
An American-Wm. H. Ward, of Auburn, N. Y., the inventer of the bullet-machinery described on page 36, Vol. XII., Scientific American--has been exhibiting a new system of naval signals before the British Admiralty Board. He has been highly complimented for the completen ess of the invention, and it is believed that it will be adopted for the British navy.
The ship-building business in England is very active at present, both in the government and private dockyards.

The Cunard Company have sold their line of iron propellers, which had been employed for carrying heavy freight between England and America, to the Spanish government. They are to be replaced by vessels of a larger class. This company also intends to add another large ship, called the Scotia, to their mail line. It will be made of iron, and of greater capacity than the Persia. It is not yet decided whether it shall be propelled by a screw or paddle-wheels. It is to be desired that the screw may be adopted, in order to test its qualities fairly In a first-class ship. Hitherto, all screw steamers have been furnished with engines of much less power in proportion to their tunnage than paddle-wheel steamers.
A colossal statue of Hugh Miller, the stone-mason, geologist and editor, is about to be erected in his native place, Cromarty, Scotland. A new statue of John Hunter, the celebrated surgeon and anatomist, is also proposed to be erected in London. These are honorable memorials to the memory of scientific men.
A meeting of scientific gentlemen was lately held at North Woolwich, for the purpose of discussing the merits of india-rubber as an insulating substance for telegraph cables. Mr. West stated that a telegraph-wire ińsulated with india-rubber had been in use accoss the harbor of Portsmouth siase 1846, and that its insulation was still perfect. It was also stated that gutta-percha was a failure for telegraph-wires on land and in the sea; that it was not such a good material as india-rubber for insulation, but it was easier to apply it to the wires.
There was a great trial at Ipswich, July 6, with Fowle 's steam plow and Smith's steam cultivator. The former plows ap the soil in furrows, according to the common method, the latter smashes up the soil, and is a "rotary." It is drawn by a windlass, worked by a band attached to the driving-wheel of a small, highpressure portable engine. Its cost, with ropes and all the apparatus, is only about $\$ 1,050$. It was generally admitted that steam-plowing was becoming a necessity, just as much as reaping by machinery.
Towing by small steamers has justb een introduced on the Leeds and Liverpool Cavial, four steam-tugs being employed for this purpose. Each boat is 60 feet long, 8 feet beam, has a tubular boiler, engines of 12 horsepower, and a screw-propeller driven at the rate of 180 revolutions per minute. These boats are solely employed for towing on the canal, and they do the work for 25 p3r cent. less than has been charged for horsehaulage.

## prices of fokeign metals, adgust 4.



New Yorks Markets.
CoAl_Foreign cannel, $\$ 9$; Anthracite, from $\$ 4.50, \$ 4.75$, to $\$ 5$ Cordage.-Manilla, $8 \% \mathrm{c}$ c. a $8 \% \mathrm{c}$. per 1b.
Corrow.-The sales were more favorable this week, still the prices have somewhat fluctuated. Good ordinary Upland, Florida and MoCopers. -There has ; Midaling fairfrom $\$ 13 . \%$ c. to 140 .
 this $m$
26.
FIO
26c. FIovx.-There has been a slight upward tendency of prices. Southern flour has been buogant, but on the whole, between one day Southern flour has been buoyant, but on the whole, between one day
and another, the market may be set down as fuctuating. Genesee brands, \$5.玉े a $\$ 8$; Ohio choice, $\$ 5.50$ a $\$ 7.75$; common brands from $\$ 4.15$ up to $\$ 6$.
Hexp.-American undressed, $\$ 140$ a $\$ 150$; dressed from $\$ 190$ a $\$ 210$. Jute, $\$ 95$ a $\$ 90$. Italian scarce. Rusian clean, $\$ 210$ a $\$ 215$. $\$ 210 . J$ Jute, $\$ 95$ a $\$ 90$. Ital
Manilla $6 \%$ c. a $6 \%$ c. per lb.
InddA-ruzaser.-Para, fine, $57^{2}$ 'c. a 60 c . per lb.: East India, 37 c . Indico.-Bengal, $\$ 1$ a $\$ 1.65$ per lb.; Manilla, good to prime, 550 a a \$1.10: Guatemala, $\$ 1.05$ a $\$ 1.25$.
Iron-Anthracite pig, $\$ 23$ a $\$ 24$ per tun; Scotch, $\$ 24$ to $\$ 24.50$; Swedish bar, ordinary sizes, $\$ 88$ a $\$ 90$; English refined, $\$ 53 \mathrm{a}$ a $\$ 54.50$; English common, $\$ 43$ a $\$ 45$. Rusian sheet, first quality, 11\%c. a 12 c . per 1b.; English, single, double and treble, $3^{3} \mathrm{~B}$ e. a $41 / \mathrm{c}$.
LEAD.-Galena, $\$ 5.80$ per 100 lbs. ; Germ
Lratura -Oak alaughter, light, 35. to c . a 35c.; Oak, crop, 40c. a 42c.; Hemlock, middle, 25٪c. a $26 \not 2 \not \partial 0$. . Hemloek, light, 25c. a $25 \% \mathrm{c}$. , Hemlock, heavy, 23\%c. a 2476 c ; Patent enameled, 16c. a 17c. per foot, light. Sheep, morocco finish, $\$ 7.50$ a $\$ 8.50$ per dozen. Calf.skins, oak, 62 c . a 65 c .; Hemlock, 6 cc . a б̄̈c; Belting, oak, æc. a 34 c . ; Hemlock, 25 c . a 31 c .
Nains.-Cut are quiet but steadyat 3c. a $3 \% \mathrm{c}$ c. per 1b. American clinch sell in lote, as wanted, at 5 c. a 6 c.; wrought foreign, 3 c. a $3 \% \mathrm{c}$. American horseshoe, $141 / \mathrm{c}$.
Ora-Linseed, city made, 60c. per gallon ; whale, bleached spring, 54 c. a 56 c .; sperm, crude, $\$ 1.22$ a $\$ 1.27$; sperm, unbleached spring, $\$ 185$; lard oih, No. 1 winte $\mathrm{L}_{1} 85 \mathrm{c}$, a 90 c .; extra refined rosin, 30 c . a 40 c .; machinery, 59 c . a 100 c .; camphene, 45 c a a 47 c .; coal, refined, from $\$ 1.12$ a $\$ 1.50$.
Reanc. - Common, $\$ 1.77 \%$ per 310 lbs . bbl. ; No. 2 , \&ce., $\$ 1.80$ a $\$ 2.122^{2} ;-$ No. 1 , per 280 lbs. bbl., $\$ 2.25 \mathrm{a} \$ 3$, white, $\$ 3.25$ a $\$ 4.50$; pale, $\$ 4.50 \mathrm{a}$ a $\$ 6.25$.
Strizl-Englibh cast, 14c. a 16c. per lb.; German, 7c. a 10c.; American spring, 5c. a $5 \%$ c.; American blister, 4\%c. a 5 \%.c.
Tallow.-American prime, 10\%c, to 11c., per lb.
TiN.-Banca, 83c. a $344 \% \mathrm{c}$. ; Straits, 32c. ; plates, $\$ 7.50$ a $\$ 9.831 / 2$ per box.
Turpentine,-Crude, $\$ 3623 / 2$ per 280 lbe.; spirits, turpentine, $44 / 8 \mathrm{c}$. per gallon.
Zinc.-Sheeta, 73 a a 73 mper lb .
The foregoing rates indicate the state of the New York rarkets up to Aug. 18.
There has been a slight decline in cotton; also, in tin. But it is believed the prices of both will yet rise somewhat higher Great efforts ane now boing made in England to increase the cultivation of cotton in Africa, so as to obtain it at lower prices than have ruled in the market for several years. The demand for cotton is greater than the supply, and this would be increased were the prices lowered. When it is remembered that the prices of cotton are not over one-half what they were half a century agb, the improvements in its cultivation
 tween."
The market for most qualities of wool is very quiet. The holders are not anxious to sell at present prices, and much caution is exercised in buying, thus showing a want of confidence in the existing state of things. Fine Saxony fleeces sells at 56 c . to 60 c . per lb ., American merino at 35 c ., 40 c . and 45 c ; California fine at 25 c . to 30c., unwashed, and common South American, 10c. to 13c., unwashed.
The peaches are a small crop this season, but some very beautiful lots of Jerseys have sold at $\$ 1$ to $\$ 1.25$ per basket, and Delawares at $\$ 1.50$ and $\$ 2$. The peacb crop has been growing smaller every season for some years past; and where this tree once flourished in several counties in New Jersey, it is now almost extinct.
The coal trade of Pittsburg amounted last year to $54,367,632$ bushels, making a total of $2,064,594$ tuns. Two-thirds of this amount were exported by boats and railroads to other sections.
The American Horse Nail Company, of Providence, commenced the manufacture of horse and ox shoe nails about six years since, by patent maelrines, which work with great speed and accuracy, producing from each, with the labor of a man and boy, as many nails as 50 men can make by hand per day. They are formed by pressing the iron into proper shape between dies while at a welding heat.
According to a statement of Mr. E. Howe, the number of sewing-machines sold in this city du ing the past year, ending April 30, was 37,442 . The increase has been over 100 per cent. in the six months ending October, 1858, and it is believed that this increase will be more than doubled durinty the next tweive molitias mak. lag the zumber abexit fejovo

issued from the united states patent office fortie wier endina acgubr 16, 189.
[Reported Officially for the sotenturio Ambrions.]


25,083.-G. L. Bailey, of Portland, Me., for Improved Machines for Punching Holes in Leather: Iclaim, firmith The arrangement and combination of the bed -piece,
L , lever, A, And hollow cutter, C , provided with a standard, D , conL Lever, A, and hollow cutter, , , provided with a standard, $D$, con-
nectity rood, E , and treadle, H , as and for the purpose eet forth and
described. I, Ilaim the arrangement, asi set forth, of the circular ad-
Second
find
 ,
25,084.-Wm. T. Barnes, of Buffalo, N. Y., for an provement in Sewing Machines:
I claim. first, Working the needles vertically and alternately in the
same hole in the bed plate, substantiall in the manner and for the



 ${ }_{\text {as }}^{\text {be set forth. }}$
25,085.-Mellen Battel, of Albany, N. Y., for an Improvement in Steam Generators:
I claim the com bination with the tubee, C, C, extending downward
through the tube sheet, or crown of the fire-box or downward into a
 forth. $D$, app
25,086.-T. D. Berry, of Lowell, Mass., for an 1 m proved Clothes Rack:
I claim the con struction of my clothes rack, with divided center, or,
of two setions, each to consist of center-piece, $A$, slata,, , braces, $H$, of two seetions, each to consist of center-piece, A, slate $F$, braces, H, H,
and circum frential pieceas
the united to



25,087.-E. Booth, of Troy, N. Y,
in Sewing Machines:
I claimm first The combheston of an exe-pointed vibrating lever,

 guished from the use of a spring of any gind, by which me
Bure its reliable action under ite rapid motions as set forth.
25,088.-Maro Bradly, of Dundee, Ill., for an Improve-

 TThis invention relates to as described.
This in vention relates to an improvement in that class of horserakes in which wire teeth are used. The object of this invention is to
rendersuchrakes more durable than hitherto constructed, leseen the draft very coisiderably, and also facilitate the turning and general manipulation of the machine, and at the same time form compact windrowe.]
25,089.-J. D. Browne, of Cincinnati, Ohio, for Improved Cabinet Furniture:

25,090.-Henry Burt, of Newark, N.J., for an Improved Door-fastener:
I claim a a permanent door-bolt made with the fastening plate, b,
bolt-case, a, and bolt, $c$, secured and operated as described.
25,091.-Joseph Calef, of Buffalo, N. Y., for an Improvement in the Running Gear of Carriages:

 B, and equivalents, and hub, D. for the purposes set forth 25,092 . Wm. S. Carr, of New York City, fer an Improved Water Closet:
I claim regulating the action of the cock or valve in water closets by

 25,093. - H. Chauncy, of Perry, Ga., for an Improve. ment in Machines for Dressing Stone:

 forth.
25,094-A. H. Clear, of Providence, R. I., for an Im-
provement in Pipe Connections for Steam Boilers: I Claim making the connections betwen the injection pipe, or sel, with the side or exterior of the vesel, by means of a yalve box
situated within or between the inide and outside planking of vessel fited with a valve, capable of being operated by a screw, or its
equivalent, by a kerson on or above the deck of the vesel, substan.
家
The liability to bursting or breakage of the iujection pipe or pipea

pipes liable to similar accident in a lesser degree. The object of this 25,109.-H. P. Gengembre, of Alleghany, Pa., for an invention is to obviate such danger, by providing convenient means of closing such pipes close tothe exterior of the vessel. and the nawith the side or exterior of the vessel by means of a val ve-box containing a sliding valve arranged within the planking of the vessel operated by means of a screw, or e uivalent, from the deck of the vessel, by which the external orifice may be closed instantaneously in case of a brake or leak occurring in the pipe, thereby effectuall shutting out the water.]
25,095.-J. H. Clifton, of New Castle, Pa., for an Im
provement in the Manufacture of Machine Belting: I claim the process of manufacturing beltin
fibrous materials, substantially as described.
25,096.-J. H. Clifton, of New Castle, Pa., for an Improvement in Belting for Machinery:
I claim, as a new article of manufacture, belting made of fibrous
material by the process set forth.
25,097.-E. K. Collins, of Chili, N. Y., for an Improvement in Clover Bolts :
I claim the combination and arrangement of two boltsin clover ma-
chines, when said bolts have a counter and upwaid movement pro-
duced in the manner chines, when said bolts have a counter and upwair
duced in thie manner and for the purposes specified.
25,098.-T. S.Cox, of Lafayette, Ind., for an Improve-
ment in the Mole of Drain Plows:
Iclaim the peculiar shape of the mole, C. ${ }^{\text {C }}$ by the forward move-
ment of the nole, C , the earth is carried from the bottom of the ment of the nole, C, the earth is carried from the bottom of the
ditch hy means of the terraducts, $B$, from the point of the mole,
to the rear of the shank, A, and pressed more densely by the in: creased earth comingin contact with the convex end of the mole, $C$, and more durable thanany heretofore made, leaving the bottom of
the ditchalmost entirely uncompressed, hence I do not claim anything except the invention of the ter raducts, $B$, ending in the convex
on the top of the mole, C . on the top of the mole, C .
25,099.-JJhn H. Crane, of Charlestown, Mass., for an
Improved Carpet-sweeper :
I claim the arrangement of belt, rotating guides and driver pulley, operath.
forth.
25,100.-T. B. DeForest, of New York City, for an Im-
provement in India-rubber Springs for Railroad
Cars, \&c.
I claim composing a spring of a serics of blocks or segments of a
circle of vulcanized india-rubber, placed and held between two
circle of vulcanized india-rubber, placed and held between two
parallel plates, or equivalents, substantially as described, but this I
only clain when the series of blocks are soarranged nnd held between
the two parallel plates, that their contiguous faces shall not come in
the two parallel plates, that their contiguous faces shall not come in
contact, under light loads, but shall come intocontact and give mu-
tual support as the load increases, substantially as and for the purpose specified.
25,101. -Thos. Dougherty, of Macon, Ga., for an Improvement in Switches for Railroads:

25,102.-Eugene Duchamp, of St. Martinsville, Lá, fo an Improvement in Self-releasing Whiffle-trces:
I claim operating the two rods simultaneously by means of the
slotted guards $D$ in combination with boxes, $G G$, and lips, c , in
the mannerand for the purposes specinied. [This in vention will soon be illustrated in our columns.]
25, 103.-Eugene Duchamp, of St. Martinsville, La,
for an Improvement in Attaching Thills to Vehicles:
I claim the combination of the swivel coupling boxes, E , having
an elliptical slot through thcir ends, thill-irons having fluked per-nn elinpical slot through their cnds, thill-irons having fluked por
ions, $G$, and hingcd gates, J, ove their equivalents, substantially as
shown and for the purposes specified.
[Anengraving and full description of this invention will be publishod shortly.]
25,104.-Jacob Edson, of Boston, Mass., for an Improved Carpet-swecper:
I claim producing the mofive power of the machine, by means of a

forth
I also claim arranging the gulding-wheel, $i$, upon the stationary
hollow-shaft or bushing, K, through which the axle of the bush shaft
passes, as described and for the purposes specified. passes, as described and for the purposes specified.
25,105.-Asahel Elmer (assignor to Nathan Elmer, Reuben M. Richard), of Shabbona Grove, Ill., for an Improvement in Mole Plows :
I claim, first, In combination with the adjustable block, $B$, on the
plow -heam, the scoring or leveling-plow, $D$, in ad vance of it, sub-
plow -bean, the scoring or leveling-plow, $D$, in ad vance of it, sub-
stan tinlly as and for the purpoe described
Second. I also claim, in combination with the plow-beam and coulter, the swinging-weighted crane or lever for preventing the careening
Third, I also claim the combination of a forked coulter, for cutting
a wedre-shaped or tapering slice over the coulter gash, with a press.
ing or driving device for forcing down said sljce, and thus packing the
conlter
coulter gash, as described.
Fourth; $I$ nliso clain a mole or former made of a series of conical
shaped sections which increase in size or they recede from the coul-
shaped sections which increase in size or they recede from the coul-
ter, and which are so linked together as that they may move in
 m, on it raar section or end said scorer forming a groove or chan-
nel, in the bottom of the finished drain, for admitting the water into
t, the sides of the drain being so closely packed asto prevent the water from entering there, said scorer being constructed and arranged
as represented.
25,106.-D. R. Erdmann, of Philadelphia, Pa., for an Improved White Lead Apparatus:

25, 107.-Alex. Forot, of Paris, France, for an Improvement in Fabrics:
I claim the manufacture of a new kind of fabric without weaving, composed simply of threads glued upon a base of paper or any
suitable kind of material, such fabric being lef plain or ornamental,
by cmbossing, or any other process, substantially as described.
25, 108.-Benjamin Fulghum, of Richmond, Ind., for an Improved Sawing Machine:
I claim the combination and arrangement of the two frames, $\mathbf{B} \mathbf{C}$,
placai one within the other, and arranged substantially gs described placca one wiunin the other, and arranged substantially as described,
so as admit of the saws being adjunted vertically , md also moved
horizontally, forward and back, forthe purpose set forth.



Improvement in Manufacture of Cyal Oils:
 ith the use of the apparatus described or other equivalent.
25,110. - Chas. Goodyear, of New Haven, Conn., for an Improvement in Manufacture of Porous Rubber Cloth:
I claim; as a new pertta manufacture, pervious to air and water
repellent, contponed of a woven or equivalent fabric, and a thin po-
rous coating of india-rubber or allied gum, substantially as described. Improvement in India-rubber Fabrics:
I claim the porons and water repellent mannfacture compoed of a
bat of fleece of cotton or otherfiber and
uniterubber, or allied gum,
25,112. -Joseph Grunwald, of New York City, for an Improvement in Clasps for Skeleton Skirts
I claim the combination of the hoops or springs with the tape, by
means of clasps, constructed substantially as described and represented by $F_{1 g s}, 3,4,4$ and 5 , and for the purpose specified.
25, 113.-James Hamilton, of New York City, for Improved Cross-cut Sawing Machine:
Its gear wheel, $f$, and hevein dearcribed of arranging the shaft, $d$, and s', and gear, , on on the shaft, , , so that said shaft, d, can be ohanged
to stand horzontall and give motion to the saw, whether the said
saw and the gearing thereof be in a horizontal or wertical position to stand horizontally and give motion to the sam, whethe the said
saw and the gearing thereof be in a horizontal or vertical position,
substantlall $y$ as specified, thereby adapting one machine to be moved substantlall y as specified, thereby adapting one or machine
subs and
ig hand, in felling trees or sawing uplogs, as set forth.
I also claim, in combination with the aforesaid machi
logs, the detachable frame, $\nabla$, buck, $w$, and variable lever, $x$, for
holding smaller logs while being sawed for fire-wood, substantially cried.
25, 114.-A. Hammond, of Jacksonville, Ill., for an Improvement in Mole Plows:
I claim the shoe, $\mathbf{E}$, provided with a knife, $\mathbf{N}$, and projection, $\mathbf{L}$,
when the same are arranged and operate in the manner and for the hen the same are arrang
rposes herein set forth.
[This is an improvement on the shoe or tooth of the mole or drawing plow, and consists in extending a-portion of the tooth out behind the standard, and forming a furrow or groove in the upper surface of it, diminishing, as it reaches the extreme end, for the purpose of filling up again. Zt also consistsin torming or affixing, in any suitable way, y yin or angular-shaped knife to the sole of the shoe, to open intate along the bottom of the ditch for allowing the water to pass upinto the same and be drained off from below the ditch.]
25,115.-B. S. Healy, of Cohocton, N. Y., for an Im-
provement in Self-acting Wagon Brakes:
I claim the combination of a forked pole, arranged substantially as
described, with the hounds, whereby the pole is free to slide in its
forks and operate the brakes without moving the forks backward in
the hounds
In combination with brakes pivoted to a fixed bar, as described, I
claim the brake blocks, nrranged and connected with the brakes as claim the brake blocks, nrranged and connected with the brakes as
set forth, whereby the friction of the wheels on the bocks draws the
brakes toward, aut cituseg them to press with greater force against the wheels.
25,116.-William M. Henderson, of Baltimore, Md., for

> an Improvement in Car Seats:

I chim, nrst, The construction of a railway reclining chair or
eve sible, so as to face either end of the car, with the whole chair
scribed. The mode of varging the hight of the back of the chair, by
Second The in two pieces and suspending the lower portion, substan-
making in tially as described.
The dond, In combination with a chair, reversible as a foresaid, I claim cxtending it by the action of the arms of the chair, substantially os
herein described.
25,117.-Robert Heneage, of Buffalo, N. Y., for an Improved Hose Coupling:
I claim the arrangem cit of the screw sections, $B$ and $C$, and pack-
ing, $K$, upon the cone extension, $A$, as set forth. ing, $K$, upon the cone extension, $A$, as set forth.
25,118.-H. C. Hunt, of Ottumwa, Iowa, for an Improved Vise:
1 clain constructing a vise in quch a manner that it will self.retain
itself upon a table or bench, substantially in the manner set forth. 25,119.-John W. Huntley, of Lane's Creek, N. C.,
for an Improvement in Cotton Seed-planters:
I claim the vertical rotating toothed shaft, $\mathbf{H}$, in connection with for joint operation, substantially as and for the purpose set forth. [The seeds, in this invention, are prevented adhering together by the fine short fibers wl ich are attached to them in a greater or less degree, and which has hitherto rendered the planting of cotton seed by a machine a really difficult and uncertain operation.].
25, 120.-Levi S. Ives, of Brooklyn, N. Y., for Improve-
ment in Mill-stone Bushes:
I claim, first, The placing, substantially as set forth, of a cylinder,
D, which contains the spindle collar, B, blocks, F, and the adjuating D, which contains the spindle collar, B, blocks F, and the adjuating
wedges, $G$, within a cylinder, $M$, secured within the center of the
bedstone, the chltnder $D$, being allowed a vertical movement
 sittle friction, and keeping all the parts in position so as to prevent
their ?cenilycmrut.
Second, The arrangement of the plates, J K L with the washer,
 prevent the casual turning of the blocks with the spindle.
Third, The plate, Ne, Nome
 chitnder, D, spindle collar, R, and driver, $\mathbf{R}$, to forman a
25,121.-H. R. Jerome, of Monroeville, Ohio, for an
Improvement in Mole Plows:
I claim, first, The arrangement of a beam, carrying a mole plow,
wheelsand with the adjusting device, 8 substantialy as and for the
Second, Providing the coulter with a series of notches and arranging the draught-chain in one or orther of said notches, and thus having the purposes set forth.
Third, The combination of a coulter which is elliptical in form, in

[This invention is designed for cutting drains under ground. The coulter and mole are sharp at back and front so as to cut both in the tact with a stone or other obstruction, it can be backed and turned out of the way of the same. The frame is self-adjusting, according to the depth at which the coulter is set to cut. The draft chain is attached directly to the soulter and thus the power or prill comes uno
the coulter instead of upon the beam, and, consequently, the beam does not act with a leverage strain in the coulter. The whole ma. as to be propelled over the land withaut going into operation. This is doubtless a good drain plow.]
25, 122. - Wm. B. Johns, of the United States Army, for an Improvement in Apparatus for Lighting Gas Burners:
I claim giving the wrench staff the jointed sections, $E$ and $F$, so
that a match inserted in the extreme section may illuminate the that a match inserted in the extreme section may illuminate the
burnerkey while the gas is being turned on, and also serve as a torch
to to ignite the gas.
25,123.-Thos. J. Jolly, of Olean, Ind., for an Improved Washing Machine:
I claim the described arrangement and combination of the treadle, , sliding-table, C, and rotary rubber, D, the whole being constructed
and operating in the manner and for the purpose set forth
25,124.-Morris L. Keen, of Boger's Ford, Pa., for Improved Machinery for Manufacturing Artificial Fuel: I claim, first, The combination and arrangement of the mills, con-
veyors, mixIng and heating cylinders, molding and conveying apparatus, substantially in the manner and for the purpose described.
Second, I also claim the combined use of the molding apmaratus, and of the tank or reservorr of water, for the purpose of receiving and
moldmis the heated and plastic materialin said tank of water for cooling the machinery and fuel and for preventing the material from
adhernto the machine, substantially as described.
Thirt, I also claim the combination of the endless apron with the molling uny: atth, operating in a tank or reservoir of water substan-
tially ir the manner and for the purposes described.
25,125.-Hazard Knowles, of New York City, for an Improvement in Clasps for Fastening Bands on Cotton Bales, \&c. :
I claim the method of securing straps by means of a roller, sub-
stantially such as described, in combination with the wedge.formed
mortise of the sleeve, which receives the strap, substantialy te demortise
scribed.
25, 126.-S. S. Langdon, of Cleveland, Ohio, for an Improved Churn:
I claim the aboved escri bed construction and arrangement of rotary
churns when the same are povided with the. dash frame, K , and churns when the same are $p$ ovided with the dash frame, $K$, and
chambers,, , and the whole constructed, arranged and operated sub-
stantially anting
25,127.-Joel Lee, of Galesburgh, Ill., for Improvement. in Mole Plows:
I claim the two swords fitting closely together, the front one at-
tached to the mole near the forward point, the rear sword pivoted near the rear point of mold.
Second, The lever, in combination with the swords for operating or adjusting the front sword and the mold.
25,128.-John Magee, of Lawrence, Mass., for an Improvement in Stoves:
I claim the arrangement of the pot-grate, A, the hot air-chamber,
F, the ring grate B, the regster, Ge and, the nsh-chamber M, H,
together and with direct descending and base fues, substantially as
25, 129.-Joseph P. Markham, of Pennfiela, Mich., for
Improved Tuyere: Improved Tuyere:
I claim, first, The use of the indentod, ralve, $\mathbf{K}$, in combination
with the outlet passages, $H$, constructed and arranged substantially as herin described, in such manner that, by noving said varve back
and forth underneath the outlet, it will admit the wind to or shut it off from said outlet, equally and gradually, on each side of the central Second, I claim the mode of making the loose nozzle, J , inde-
pendent of the masonry forsupport, by the use of the tube, socket, in combination with the ribs, $G$ G $G$ G , and corrssponding
rebates, substantially as set forth.
25, 130.-Rufus Maxwell, of Tucker County, Va., for an Improved Towel Rack:
I claim the construction of racks for endless towels, with a slot, a b,
and opening, c , substantially as and for the purpose descrthed.
25,131.-Chas. H. McAleer, of Chambersburgh, Pa., for an Improvement in Binding Apparatus for Harvesters:
I claim the app ratus or elevator for raising and compressing the
gavel, constructed and operating in the manner substantially as described.
25,132.-W. Howard Mitchell, of San Francisco, Cal., for Improvement in Rotal'y Movement:
I claim two or more reverged, self-detaching pawle or catches, work-
ing on opposite sides of the perthe o of the ratchet wheel, ,y being attached to arms working in parallel lines and in the same direction,
constructed and operating substantially as and for the purpose speci-
fied. fied.
I also claim the combination of the ratchet wheel, $\mathbf{R}$, with the
with or catches, $\mathbf{P}$ and $P$, and flanges, $E$, and the cross beam, $B$,
with parallel arms, $G$, substantially for the uses and pupposes set
forth. I also claim the
casing or flanges.
25,133.-George J. Montjoy and Joel B. Sawyer, of Houston, Texas, for an Improved Rotary Steam. engine:
We claim the arrangement of the paseages in the double elbow
piece, E E' and the revering cock or valve $F$, in combination with the passages in the stationary hollow ehaft, D , and its abutnent, IT, IT,
the whole applied in ionnection with the cylinder and its sliding pis-
tons, to opevate substantially as described.
[The rotary engine will surely come into use at some future time, it. The present improvement consists in a certain novel arrangement of passages and a reversing cock or valve, in combination with the passages in a stationary hollow shaft and abutment and with a suitable system of pistons, which makes it simplein its construction and enables it to work with vers little friction.]
25,134. -Willis G. Murphy, of Seguin, Texas, for an Improvement in Seed-planters:
 25,135.-Rudolph A. Nathurst and John L. Stewart, of Nashville, Tenn., for an Improved Safety-rein for Bridles:
We claim the connection of the choke-strap with the common or
ordinary driving reins, so as to act and serve for both purposes of ordinary driving reins, so as to act and serve for both purposes of
driving and safety-ren, substantially as described, and this we
claim whether it be temporarily or permanently affixed to the bridle claim whether it be temporarily or perm
or halter, whether a bit is used or not.
25,136.-Cæsar Newmann, of New York City, for an Improved Skeleton Skirt:
Inclaim the combination of the jointed or hinged hoop sumporters,

25,137.-J. J. Parker, of Marietta, Ohio, for an Im. proved Steam Slide Valve:
Itla m placing the valves loosely on the hiollow arns of the eide
 pressure oft th
as ppecified.
25,138.-John C. Pedrick, of Washington, D. C., for Improved Ball Furniture Casters:
 thereby lege
ns deccribed.
25, 139.-Thos. E. Roberts, of Allamance, N. C., for an Improvement in Trucks for Railroad Cars, \&c.
I claim the construction and arrangement of the concave chilled $G \mathrm{GOH}$, for the purposes fully set forth
25,140 .-James H. Roome, of New York City, for an Improvement in Shears:
1 claim cembining one limb, C D, of a pair of shears, or other
and
 and handle with the other limb, of the shears by means of an arm, $f$,
 described, to
COne limb of this pair of shears is combined with a handle forming part of a separate lever, and of combining the limb and handle wit the other limb of the shears, whereby the leverage exerted by the thumb or hand in cutting is gradually increased as the shears close and a drawingcut is produced.]
25, 141.-Wm. N. Rowe, of Sharpsburgh, Md., for an Improvement in Carriage and Wagon Jacks:
I claim the adjustable sliding catch-plate, B,operatingas described,
in combination with the grease box, $F$, and jack, as set forth and de-
25,142.-Jacob Rupertus, of Philadelphia, Pa., for an Improved Percussion Pellet for Fire-arms:
I claim the employment, for enclosing the detonating compound
of a metal capsule of spherical form, substantially as described.
25,143.-John Scheeper, of New York City, for an Improvement in Stoves:
I claim the arrangement and combination of the fire-chamber, A;
oveng, $B$ ED, and flues, kil a $1 \mathrm{n} \boldsymbol{n}$, substantially as and for the pur-
pose sho wn and described.
[This invention consistsin a peculiar arrangement of fa fire-cham ber, with ovens and flues, so that the radiation of heat from the stove ist in a great measure. prevented, and retained to heat the several ovena Trith vessels directly on the fire, as in frying, boiling, \&c.]
25,144.-Henry W. Shipley and Zohar Blair, of Mount
Vernon, Ohio, for an Improvement in Portable Iron Husk Grist Mills:
We claimthe husk, A, and cup, A' composed of lower and upper
scettons, the same being turned and fitted toysther, as described, and scettons, the same being turned and fitted toped het, as described, and
 aleo forms the upper hanbl, , thectfat.
We claim the cup, $M$, constiveted and fitted substantially as de-
scribed, and cementing the stone thereto, so that both will revolve togethe., .
We claim the bridge trees, $D$ and $G$, in combination with thebusk,
A, 'H1, $A^{\prime}$ and frame, $\mathbb{C}$, when arranged and operating substantially
as uet forth.

25,14.5.-Henry Soggs, of Columbus, Pa., for an Improved Butter Worker:
I claim the tray, d, with convex bottom andends, set on an inclined
plane of rollers, work ng in combination withs the evlinder, a, and ibs, for the puryoge of working the milk and superfluous, matter

25,146.-David Stoddart, of San Francisco, Cal., for

## an Improvement in Slide Valves of Steam-engines

 1 cla1m, first, The employment of the elastic plate, $D$, in combina- nd described.
[A flexible metallic plate is applied, in ombination with a halance crame, between the back of a slide valve and the back of the steam chest, whereby the valve is relieved of unnecessary pressure and caused to work with very little friction. This is the invention. The pring and balance frame are colastructedof a certain form, and a plate and balance frame, as to cosispensate for the wear of the frame, the valve and seat.]

25,147.-William Mont. Storm, of New York City, for an Improved Steam Generator: I claim the plan or method of conveying water from a closed tank
or resevorinto the heating surfaces of a steam generator by capillary
attraction, for the objects described. Second, Iclaim so constructing and locating the said supply tank
that the influence of the heat upon the water contained therein for feed, while elevating its temperature, shall in no case bring it up to
to
25,148.-Francis M. Strong and Fhomas Ross, of Brandon, Vt., for an Improvement in Weighing Scales: We claim the arrangement of the bars, $C$ D, of the larger phatrorm,
B, a shown to wit one lever crosing the other at about fipht angles
oo that the knif
 We further claim attuching the arms. E E. of the levers, CD D , either
eparately or when eornceted direct to the beam, $G$, and havisg the ar, I, of the scooy or smaller platform, H, rest on krife endged buat 25,149.-B. F. Sturtevant, of Boston, Mass., for an Im proved Blank for Shoe-pegging Machimes: I claim, as a new article of manufacture, a blank or strip of shoe
25,150.-N. G. Thom, of Cincinnati, Ohio, for an Im-
proved Machine for Nicking and Trimming Heads of Serews:
I claim firpt, A revolving or rotating head, which revolves around a

screw blanks.
Second, In combination with the spindles or blank holders, I claim
the annular cim, m, laving internal and external inclined aurfaces,
or the purpoac of ralinge the spindle in the nicking procese and oler Third, In combination with the spindles or blank holders, I claim the rod, d, and spring, $e$, or its equivalent, when such a sprisig?
equivalent, is made to act upon the rod at required intervals, to ? charge the blank, by being attached to some rotating or recfprocating
portion of the machine.
Fourth, I claim thele
mechanical equivalent, which acta upon the machine, for the purpose of arreating one phrt while it releases another, substantially as deFribed and for the purposes set 1orth.
Fifth, I claim the arrangement ofthe spindles and drsping shaft in shaved and trimmed are acted spina by the driving belt, the spindle ontaining the blank to be nickel is not acted upon, and the neces-
sary tensionis giventhe belt at all pointsin the revolution of the sixth, In combination with the worm-wheel, w, or its equivalent
 ary while the head revolves, or nearly eo, and the cams revolve
the head is stationary, substantially for the purwee日 set forth. Seventh, I claim finishing the heads of screw titank by an wpur-
atus, by which the necessary tools for finishing the kctal are revived round the spindles or blank holders, whether such blank holders are
25,151. - Andrew Turney, Jr., of Fairfield, Conn., for Cables: Cables:
I claim the construction and use of an apparatus consisting of two
hollow cylinders, $\mathbf{A}$ and $\mathbf{B}$, with longitudinal joints orhinges, and two
sisk
 or regulating disk, $G$, to be attached to a telegrap canle while the
cable is being submerged, to check the rapidity of the enling ind to
afford a constant strain on it in the direction of the vcasel which is paring ounthe cable, to avoid licks or fertoons, when the whole is
constructed, arranged and made to produce the result substantially anstructed, a
as described.
25, 152.-John Wagoner and Abram Severson, of Guild erland Center, N. Y., for an Improved Washing Machine:
We claim mounting the revolving platform, $K$, and the pulleys and
gearing $P Q R$, or their equirnlent, on the hinged platform, $M$, and gearing, PQR, or their equiralent on the hinged platform, M, and
so arrauging the whole that, when 1 is turned up, the drivlng belt,
$O^{\prime}$ is slackened, and the whole lies within or by the side of the main frame; a and when M is turned down the gravity of the tub, or equiva-
lent vessel, tiehtens 0 and causes the several parts to operate with ent vessel, tiehtens Oand
out any labor inadjusting.
25, 153. -Samıel Wethered, of Baltimore, Md., for an Improvement in Carding-engines:
I claim, first, A card-clothed main cylinder for carding engines
which.performs a lateral vibrating movement simultanoously with ts revolution, substautially as and for the purposes set forth. is cap. Second, A card-clothed "rancy" or upper cylinder, which is cap.
ablf of performina a ateral vibration as it vewivea in combination
with a fattrnally vibrating card-clothed main eytider, substantially with a lattrornly vibrating card-cl
as and for the purposes set forth.
25,154.-Julius Wehle, of New York City, for an Im
provement in Hat Measures:
I claim, first, The divided handle, in combination with the elastic
oval strip A, forthe purpose of contra ting the said oval strip, substantially as described. $\begin{aligned} & \text { deose of contra ting the said oval strip, sub- } \\ & \text { Secon, The scale, } D \text {, secured to one of the handles, and passing }\end{aligned}$ Second, The sca le, $\mathrm{D}_{\text {, sech }}$ secured to one of the handles, and pasing
through an incision othe handle, in combinatiou with the
screw, N , substantially as described, for the purpose set forth.
25, 155.-Y. B. Williams, of Freeport, Ill., for an Improved Horse-power Machine:

[This invention consists in arranging a series of head-wheels,
oothed rings, pinions, shafts and pullies in such a manner that the
:catest velocity is obtained with the least amount of power, and that the power may have been
25,156.-William S. Williams, of New York City, for
an Improved Machine for Bundling Kindling Wood :
 Secod, I clain the combination of the the purposes set forth.
kifen, $h$, will the concave wood carrier, ha, to couver he wood to the unding apharrutus, as sef eifict. orth, to sustain the $k$ ndling wood as fed into the machine, and keep Fturth, I clasim dred curved gatherers, fo fitted and acting as set
forth, to deliver the buanle of wood and gather the next loose wood ato a bundle, as specified.
Fifth, I clalmthe conical gatherers, , and $\mathrm{m}^{\prime}$, to concentrate and
ompre s the bundle of Sixte s the bundle of wood, as dexcribed and shown.
Sixth I claim the stationar', phate, $k$, and segments, 15 , in ombina-
ion with the conical gatherer, , to sustain the wood while acted upon, as pecijied.
seventh, I claim the plinger or press-block, $m$, acting to bring the ends of the bundle of wood level, ns set forth.
Findth, I clai m the vertical moving frame, orming the recep.
taclefor the wire, and the guide for the nlumure that w aps eaid taclef for the wire, and the guide for the thilu
wire around the bunde of wood as set forth
Ninth In combination with the fran
 the wire near the middle part thereof, as described and slown. Tenth, I claim the circular twisting jaws, 30, moving in dovetail
and acting when revolved by competent mcans, to t int the ends of
the wires ang ther, in the manner and for the purposespecified. the wirestigether, in the manner ned for the purposesepecified.
Eleventh 1 cl $1 m$ the arrangenent of the sliding and revolving
shaft, $t$ in c mbination with the twisting jaws, 80 , for the purposes Twelfth, I claim the spring guides, $2 \pi$, to keep the wire straight
Thle pased into the machine, in combination with the traveling Twelth, I claim the spring guides, 25, to keep the wire straight
while paesed into the machine, in combination with the traveling
jaw or lamp, 1 , and withthe shear, 26 , as described and shown.
25,157.-John Alcxander (assignor to himself and Jas. Ritchie), of Brooklyn, N. Y., for an Improvement in Patterns for Molding:
I claim the employment or use of a "former," $\mathbf{C}$, with a pattern, $\mathbf{D}$, forrner,", $C$, substantillly as described, to produce moldsin over the required.
ref hollow ware and other casti gs of the exact thick ess
25,158.-Chas. Bradfield (assignor to C. Stewart Brad-
feld), of Philadelphia, Pa ., for an Improvement in
Hanging the Bodies of Wheel Vehicles:


Second Attaching the thills,, $\mathbf{E}$, to the body, $A$, by means of the
bars, $G$, fitted in the eyes, bars, $G$, fitted in the eyes, $\bar{C}$, and secured the
by set screws, $h$, substantially as described.
[The wheels of this vehicle are attached tothe bodyin a novel was ame time whee3s of large diameter be employed in connection with spring. The invention alsa consists in a novel way of attaching the thills to the vehicle, whereby they may be readily adjusted higher or lower to suit the hight of the draft animal between them,]

25,159.-Calvin Fletcher (assignor to Addison C Fletcher), of Cincinnati, Ohio, for an Improved Apparatus for Supplying Furnaces with Hot Air: an, $I_{1}$ and the steam chambers, $A$, communicating with the cham.

25,160.-Hiram L. Hall (assignor to the Beverly Rubber Comparyy, of Beverly, Mass., for an Improve ment in Restoring Waste Vulcanized Rubber:
I claim the restoring of waste vulcanized rubber or gutta-percha
by the use of a
for the prifust surpose deam, substantially in the manner and
25, 161.-Miles B. Hand (assignor to himself and Sheldon B. Hand), of Handsboro', Miss., for an Improvement in Cotton Presses:
I claim the combination of the togle, C C, and screws, E E, when the atcer are connected to the driving or power shaf t, or to a shaft
conneted therewith, by meazs of universal joints, $\mathrm{H} H$, substantially as and for the purpose set forth.
[This improvent is applicable to all presses, and forms a very mple, compact and powerfuloperating mechanism.]
25,162.-John .J. Lehaye, of Reading, Pa., assignor to himsclf and John Tucker, of Philadelphia, Pa., for an Improved Churn:
I claim the vessel, $\mathbf{B}$, cylinder, $\mathbf{C}$, and recinrocating plunger, $\mathrm{E}_{1}$ set forth, in combination with the devices described, or their equivbents, for enlarging or contracting at nleasure the communic
baid cylinder and vessel, forthe purpose specified.
25, 163. -Cæsar Neumann, of New York City, assignor to Abraham Prince, of Boston, Mass., for an Improved Machine for Making Hooped Skirts:
I claim the combination of a series of twisting apparatus, with the manner and for the purpose 1 also vating screw and its appendages, and the mode of operatingthe same, as degeribed.
$I$ also clain
I also claim collapsing the guides to forn different sized skirts and
25,164.-Robert Poole (assignor to himself and G. IH'. Hunt), of Baltimore, Md., for an Improvement in the "Fifth Wheel" of Fire-engines and other Vehicles:
I claim hanging the pivoted fif th wheel of a steam fire-engine, or
 jearings or seats on gnid
the purposes described.
25,165.-E. L. Pratt (assignor to himself and R. B. Fitts), of Philadelphia, Pa., for an Improved Meat Safe:
I claim a new article of manufacture being a combined arrange-
 nd for the purpose specified.
25, 166.-John B. Wickersham and Henry Jenkins, of Brooklyn, N. Y., assignors to the New York Wire Railing Company, for an Improvement in Iron Fences:
We chim constructing railiways, fences and other articles by metal.
 direction, substantially as specified.
25,167.-Archilnus Wilson, of New York City, assignor to D. A. Heald, A. L. Wilmarth, C. T. Martin and H. A. Hurlburt, for an Improved Mode of Lighting Gas by Electricity
I claim combimng, with a gas or other burner, metallic points nprriscicise but not coming in contact with each other, substantially
as deecrited but this 1 ninly claim in combination with the inductive
apparatuk, substantially as described for the purpos of efting apparatus, substantially as described, for the purpose of effecting ignition by means of the electric discharse cr spark, as specified.
I also claim, combining with a bal vanic hattery, an inductive
apparatuar con, metallic points and an electro-magnet, for the purapparatuasor conl, metallic points and an elec.

RE-ISSUES.
G. W. Bishup, of New York City, for an Improvement in Breech-loading Ordnance. Patented Sept. 9, 1856:
I claim combining the movable breech-pin with the bore of the canubstantially such tis descrived, and which, after the breech-pin is
nserted, are hifted and made to crost the jointof the breech pin and
ore, to hold the breech-pin against the force of the discharge

Allan Cummings, of New York City, for an Improvement in Ash-sifters. Patented March 8, 1859 ; reissued Aug. 6, 1859
I claim the employment of a conicalseive, or seive of an equivelent form, in combination with the two recentacles, one for the sifting
and the othler for the substance sifted, substantially as and for the
purpose described. purpase delaim the coni al deflector for deflecting the shbstances to be sifted, and concentri ing them in combination with the spreader
subs antially as described, whether the spreader be itselfthe seive or subs antially as described, whether the sprea
employed with the eive elelow as described.
I also elaitr in combination with the seive
face of ely dedector for preventing the escape of dust flom the apparatuas as delcriber.
And I alio claim in combination, the deflector, the spreader, the
and conical seive, nud the necreracls for the siftings and
sifted, substantially as nut for the purpose specified.
Ralph J. Falconer, of Washington, D. C., for an Improved Sash-fastener. Patented Aug. 31, 1858: I claim extending the cap portion, $m^{\prime}$, of the catch, $m$, over and Sainh with the edge of plate, n, so that the window cannot be un-
fastened without laving the point of the hook, a. withdrawn entirely cleared fom the meeting-rail of the upper sask, and out of the way of
the ba rga bove when the lower sakhis raised. Second, And in combination with the catch, m, hook, a, and pate,
, I claim the check, $u$, or equivalent thereof, for the pui poses speci-
J. R. Robinson and H, S. Robin6on, of Clinton, Mass,
for an Improvement in Valve Cocks. Yatented for an Improvement in Valve Cocks. Patented Aug. 31, 1858:
I claim, frst, The method of constructing valves, valve-cocks and
gates, substantially as specified, sothat, when the port or ports therein gates, substantially as specii1ied, sothat, when the port or ports therein
are uncovered, tleve shall be straight passage or pazages from the
induction portor.ports in the valve chamber to the eduction port or ports in the same, for the purposes described, whether the valves in
such valves, valve-cocks and gates are made in one or morethanone piece.
And second, Making the valves in valves, valve-cocks: and gates in
separate or detached pieces, substantially as and for the purposcs deseparate or detached pieces, substantially as and for the purposcs de-
scribed.

Francis Wolle, of Philadelphia, Pa., for an Improvement in Machines for Making Paper Bags. Patented July 6, 1858:
Iclaim, first, The com bination of the creaser, C , and lappers, F F ,


soribedid The revolving lapper shaf, U , in combination with the
Treasire, Th S , the feed-roller, M , and a aprons, $\mathrm{a} q$, substatianly as de-

Conrad Poppenhusen, of New York City, assignee of $L$ Otto P. Meyer, of Newtown, Conn., for an Improve
ment in Treating Caoutchouc and other Vulcan-
izable Gums. Patented April 4, 1854:
I claim the mode of oppatation orm ode of proceedure, eubstan tally ploy ment of a piliuble or flexible envelope, substantially euch as de de.


Christian Shunk, of Canton, Ohio, for an Improvement
in Refining Iron in the Heat of a Blast Furnace. Patented May 17, 1859:
I claim the employment, immediately before the tapping of the
common blast nlroace, when charged with molten iron, at such an
of ioto and give tothe whole mase in the hearthe $a$ spiral or rotary
motion, substantialy asdescribed.

## extension.

Beriah Swift, of Washington, D. C., for an Improvement in Grinding Mills. Patent dated Aug. 16, 1845:





 coned.

## design.

Garrettson Smith and Henry Brown (assignors to Cox, Whitman \& Cox) of Philadelphia, Pa., for Stoves.

## (2) (a) (as)

J. A., of Conn.-It is very difficult to form an alloy with antimony and copper, and it ts not so strong as cast-iron. Tin
and antimony form an alloy that is both hard and tough, and with and antimony forman alloy that is both hard and tough, and with
the addition of leaid it forms type metal. Antimony does not comthe addition of lead it form
binewithcarbon liketron.
N. H., of Conn.-If you employ dextrine for making Dutch metaladhere to paper, you will find it superior to the white of egge. Good size made by biling parchment clippings is superior
to dextrine, but is more expensive. A solution of fieinglass mixed to dextrine, but is more expensive. A solution of ieinglass mixed with whiskey, we think, will answer sour purpose betterthanany other.
S. W., of Cal.-A pump 20 feet in length will not raise Water easier than one 10 feet in length from a pit 10 feet deep. If the short pump to which you refer requires more power to work it
than the long one placed beideit, you may depend upon it that its buckets are set so as to cause more friction, or else it draws more water.
J. D., of --All vulcanized india-rubber is made under Goodyear's patent. You would have to buy it for making elastio boot heels, but we do not think you could obtain a pa
J. Y. H., of P.a.-We cannot well determine as to the exact rights of the parties in the case you mention, without seeing a copy of the deed of assignment. But we will state, in general terms, that ifan individualpurchases a cider-mill, with right of use in a certain town, he has a right to use it anywhere in that town. He may use it in his own house or in that of his neighbor. He may use it personally, or his neighbor may use it as his representative. The origlalow, have no right to demand back pay for the loan to a neighbor, nor
could he, at law, recover damages for such continued loanings. If could he, at law, recover damages for such continued loanings. If demanded; but if the deed expressty limits the use of the machine to the barn or actual premises of the purchaser, then the latter would have no right to use it elsewhere.
S. T., of Mass.-Common mortar used for roofing would L be liable to crack ; if saturated with oil of sulphur varnish, it may prevent this tendency.
C. G., of Iowa.-Your subscription will expire with No. 20, Vol IIL., or one year from next November.
H. M., of Ky.-When it is satisfactorily demonstrated by cxperiments that water-wheels do more work during night than
day it will be time enough to seek forthe cause of the phenomenon.
T. A. S., of Va.-The stone you send us is a common Earnet, and is not of any value.
S. W. G., of N. Y.-There is no work published containing the dyeing recipesto which yourefer, and back numb iscontaining them cannot be obtained
W. I. L., of N. Y.-We do not understand your views regarding the earth having two revolutions on its a xis as presented in your letter, but suppose you mean that its annual revolution round the sun involves an axial motion besides its daily rotation on an axis. If so, your views will not be disputed.
C. H. C., of Ala.-The Babbitt patent is for lining the hard shell of journal boxes with a softer metal; there is no patent on the metal.
W. B., of Minn.-The falling of the mercury in a weather-glass indicatesa storm of wind and also rain, but the reason why is not well understood.
C. D. P., of N. Y. - Fine emery is employed for grinding and either calcined tin or calcined sulphate of iron for polishing lenses. Boiled linseed oil containing a drier, such as litharg, is about as good a
W. K., of Mo.-The furnace of a saw-mill for burning saw-dust, chips, \&cc., should be lined with the best fire-brick, and made somewhat deeper than ar forning coal. If we were in your place, we would use a grate five feet longand three feet wide, and would feed

## fuel gra

E. A. D., of N. Y.-If you take an equal quantity of saturated steam at 2500 and superheated steam at $350^{\circ}$, the former will contaln the most latent heat, and will therefore require more water to condense it; but if a certain volume of satu rated steam at $255^{\circ}$ is superheated to 3300 , it will certainly require more water to condense it, because the total amount of heat in it is greater. The article to which you refer embraces this idea.
A. C. T., of N. Y.-We can only refer you to our back volumes, where you will find illustrations and descriptions of all kinds of windmills. As to which is the best adapted for your special purpose or location, you must be your own judge.
D. A. J., of Pa .-A square frame with wires stretched actoss to guide the hand will enable a blind person to write in straight lines, and prevent the letters running into one another by moving the hand continually along a certain wire. There is no machine bywhicha blind person can write in raised letters. Mr. Chapln, of the Institution for the Blind, in your city, will giveyou any information concerning appa atus for the blind.
H. D. E., of N. Y.-Three-córnered files are orly made small at one end, and that is for doing smaller work than the gradually widening to the end of the file
E. R. C., of C. W.- Lf your batter
. R. C., of C. W.-Hf your battery and solution are in good condition, the white metal only requires to be perfectly clean, in order to take on the silver for polishing. We think your articles have not been properlycleaned beforeyou put them into the elec
tro-plating baths.
N. L. O., of Pa .-When you come to this city, you will see how our office is heated and ventilated. It is held to be a very efficient and superior method.
W. C. K., of Texas.-Write to Mr. James Bogardus, Center-street. this city, and he will furnish you with a grindingmill suitable in every respect for your purpose ; but we do not think you carl succeed in making pottery withous employing a practical man to conduct the business.
L. A. R., of N. Y.-We cannot refer you to any work defining the character of the Virginian cannel coal.
G. V. A., of N. Y.-We have no doubt that Goodwin's wheel is a good one. It hasbeen illustrated and described in our paper.
L. A. B., of N. H.-There is not the slightest chance for a patent on your allegod improvement in devices for producing reciprocating motion in harvesters. The zig-zag wheel has long been known for this purpose.
W. M. H., of Md.-You will find he information you seek (on pumping water) in another column.
S. S., of Mo.-The shining particles in the sand which you have sent us are mica scales. The red chalk is anoxyd ofiron. It is of no practical value. Send us a good sketch of your fence,
D. R., of N. C.-The paragraph in No. 7, stating that "there are on the earth $1,000,000,000$ inhabitants, and that of these
$33,333,383$ die everyyear, 7,780 every hour, and 60 every minute," $33,333,333$ die everyy ear, 7,780 every hour, and 60 every minyte,
was inserted by the printer to fill upat the last moment before going was inserted by the printer to fill upat the last moment before going
to press. When too late, we noticed the error in its calculation to press. When too late, we noticed the error in its calc
but did not deem it of sufficient consequence to correat it.

## Money Received

At the Scientific American Office on account of Patent Offce buslness, for the week ending Saturday, Aug. 20, 1859:-
H. W. W., of Cal., $\$ 30$; E. C., of Mase., $\$ 250$; E. D., of La., $\$ 30$ R. S. U., of N. Y., $\$ 20$; W. H. B., of N. Y., $\$ 30$; J. C. A., of Ohio, $\$ 40$; A. H. P., of Mass., $\$ 25$; W. R. A., of Wis., $\$ 32$; R. C. F., of N. Y., $\$ 10$; D. A., of N. Y., $\$ 10$; S. \& M., of N. Y., $\$ 30$; C. W., of Mo.,
$\$ 55$; W. D. J., of N. $\$ 25$; W. D. J., of N. C., $\$ 75$; H. R. B., of N. Y., $\$ 30$; J. K., of Y., $\$ 25$; G. W. B., of Ga., $\$ 35$; F. S., of Mich., $\$ 30$; S. F. Van C., of Cal., \$20; B. \& C., of N. Y., $\$ 30$; N. W., of Wis., $\$ 55$; L. H., of N. Y., $\$ 25$; W. \& S., of Vt., $\$ 20$; J. M. C., of Ky., $\$ 30$; J. H. R., of Mich., $\$ 35$; A.C. A., of W.T., $\$ 30$; H. S. L., of IlL, $\$ 25$; I. McC. Jr., of Mass., $\$ 30$; Van H. \& A., of Mo., $\$ 20$; A. T., of Conn., $\$ 27$; G. C. B., of Ill., $\$ 20$; C. \& B., of Conn., $\$ 15$; C. C. B., of Ohio, $\$ 20$; S. \& C., of Maine, $\$ 30$; P. K., of Conn., $\$ 30$; I. A., of N. J., $\$ 40$; JH. F., of Ohio, $\$ 25$; R. T. C., of Im ., $\$ 10$; H. W. B. R., of La., $\$ 70$;
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£á5; C. W. C., of IM., $\$ 26:$ E. K. B., of N. J., $\$ 29$.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Aug. 20, 1859:-
N. W., of Wis.; C. \& B., of Conn.; A. T., of Conn.; A. H. P., of
Mass.; C. W., of Iowa; E. \& R., of Mith.; F. C. L., of N. Y. J.H. F., of Ohio; M. M., of Va.; W. \& S., of Vt.; P. B., of L. I.; W. R.
A., of Wis.; H. S. L., of IIL.; W. \& S., of Vt.; L. H., of N. Y.; W. A., of Wis.; H. S. L., of M.; W. \& S., of Vt.; L. H., of N. Y.; W. M., of IL.; J. H. L., of N. Y.; I. W., of Mass.; T. G. G., of Ill.; D. A., of N. Y.; S. \& C., of Maine; W. M. H., of Vt.; E. K. B., of
Conn.; J. M., of Maine; H. \& T., of N. Y.; E. K. B., of N. Y.; A, \& B., of N. J.; C. W. C., of III., L. \& V., of N. Y.; A. L., of Mich.

## Literary Notices.

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