black. Here is a new field for the enterprise of our m.wiufacturing artists.

Ia a communication to the Edinburgh Prilosophical Magazine, Mr. H. C. Sorby states that he has made several experiments with water in capillary tubes to determine when it boils, and at what temperature it freezes. It can be raised to about $212^{\circ}$ without boiling, and lowered below $32^{\circ}$ (the freczing point) without freczing. In tubes of one two-hundredths of an inch, he lowered its temperature to $5^{\circ}$ without freezing, when not in contact with ice. It thus appears that by the water adhering to the sides of the tube, it is prevented from becoming solid at a temperature much below that at which it freezes when in a large body.
Mr. Thomas Spencer, the discoverer of the electrotype, has lately made another important discovery. He has ascertained that the magnetic oxyd of iron which abounds in rocky strata, sands, \&c., destroys all discoloring and polluting organic solutions in water. Even sewerage water can be thus almost instantaneously purified Morcover, Mr. Spencer has discovered that the apparently mechanical process of filtration is itself magnetical and it being known that all substances are constitutionally more or less subject to magneticalinfluences, all ex traneous matter suspended in water may be rapidly sep arated in filtration either by magnetic oxyd or black sand of iron.
Mr. Bailly, the president of the London Astronomical Society has been for six years weighing the world in different ways, and is now sure that he has obtained its specific gravity so nearly accurate that his figures cannot err more than 0.0058 . The total weight of the world in gross tuns is $6,062,165,592,2.11,410,488,880$, according fo his scales.

Considerable has been published in several of our papers relating to the English river ferry-boats, at Liverpool and other places. They have no upper cabins nor spacious saloons like the ferry-boats in this city. Much better boats should be used at Liverpool, but they could not have such an amount of upper works as those on our rivers. The awful storms which visit the British coast, with the tremendous roll of the Atlantic rushing up the rivers so near to the sea, would not permit ferry-boats like ours to be run. It is now proposed to construct a huge iron tunnel under the Mersey at Liverpool. The illea is taken from the several illustrations of tunnels which have appeared in former volumes of the Scientific American, and which had been proposed for communication between New York and Brooklyn under the East river.

English rails are in better demand than they were a few weeks since. The Welsh are selling at $£ 6$ per tun for cash, and Staffordshire at $£ 7$. Scotch pig iron has fallen a little, the cash price in Glasgow being 22 12s. Banca tin is sclling at $£ 139$ per tun; Straits, at $£ 136$ Copper is in good demand. Spelter has improved, the price being £21.

The New York and Philadelphia Steamship Company have purchased the iron screw steamers Edinburgh and Glasgow. Their price was $£ 52,500$, about half their original cost. Although they have changed proprietors, they will continue to sail regularly between Greenock and New York.

## New York Markets

Canoles.-Sperm, city, 3sc. a 40c. per lb.; sperm, patent, 50c.; wax parafline, 50 c .; adamantine, city, $181 / \mathrm{cc}$. a 21 c .; stearic, 37 a 28 c .
 Taunton yellow metal, 20c. hemp, 12c.
Corron.-Ordinars, $8 \% \mathrm{sc}$. a $83 / 4 \mathrm{e}$; good ordinary, 03 sc . a 10 c .; middling, $11 \%$ c. a 117 č.; sood middling, 117 с. a $12 \%$ c.; middling fair, 12\% 亿. a $13 \% \mathrm{cc}$.
Dowstic Gonns.-Shirtings, bleached, 26 a 32 inch per pard, fic. a 8 c. ; slirtings, brown, 37 inch per fard, c. a 74 c . ; shirtings, bleached, 33 a 34 inch per $\overline{5 a r d, ~} 7$ a $8 \frac{1}{2}$ c.; sheetings, brown, 36 a 37 inch per yard
 6c. a 11 c . ; drillings, bleached, 30 inch per yard 814 a 10 c .; cloths, all
 brown, $8 \% \mathrm{c}$. a 13 c .
Flovn.-State, superfine brands, $\$ 4.90$ a $\$ 4.95$; Ohio conmmon trands, $\$$.5.05 a $\$ 5.20$; Ohio, fancé brands, $\$ 5.30$ a $\$ 5.40$; Michigan, Indiana, Wisconsin, tc., $\$ 5.25$ a $\$ 5.35$; Genesec, extra brands,
$\$ 5$. cin a $^{2} \$ 7.50$; Missouri, $\$ 5.10$ a $\$ 7.50$ Canada, $\$ 5.15$ a $\$ 3.20$ Rieh\$7. Liv a $\$ 7.50$; Missouri, $\$ 3.10$ a $\$ 7.50$; Canada, $\$ 5.15$ a $\$ 3.20$ Riehmozd Cits, $\$ 6.50$ a $\$ 7.25$; Baltimore (Howard-street)
Herm-American wadressed, $\$ 140$ a $\$ 150$; dressed, from $\$ 160$ $\$ 200$. Jute, $\$ 57$ a $\$ 93$. Italian, $\$ 27 \mathrm{~F}$. Russian clean, $\$ 190$ per tun. I:nilla, fizíc. per lb.
Ivdi-bubiser,-Para, fine, 7 cc , per Ib : East India, 50c, a 53 c Inmifo.-Dengal, $\$ 1$ a $\$ 1.55$ per lb.; Madras, 75c. a 95 c.; Manilla,

60c. a $\$ 1.15$; Guatemala, $\$ 1$ a $\$ 1.25$.
Iron.-Pig, Scotch, pertun, $\$ 23.50$ a $\$ 24$; Bar, Swedes, ordinar quality, per lb, 1114 c a 111 c . Sheet English, reble, $31 /$ a $3 \%$. Anthracite pis $\$ 24$ per tun
Ivory-Per lb, $\$ 1.25$ a $\$ 1.80$
Latir.--EAstern, per M., $\$ 2.10$ a $\$ 2.15$.
Lend.-Galena, $\$ 5.80$ per 100 lbs.; Germa $\$ 5.65$; bar, sheet and pipe, $53 / \mathrm{c}$ c. a 6 c . per lb .
Lenther.-Oak slaughter, light, slc. a 30 c per lb; Oak, medin, 1c. a 33c.; Oak, heavy, 30c. a 31c.;Oak, Ohio 29c. a 30c.; Hemlock heavy, California, 20\%c. a $21 \%$ c.; Memlock, buff, 15c. a 18c.; Cordovan, 50 c . a 60 c .; Morocco, per. dozen, $\$ 18$ to $\$ 20 . ;$ Patent enam
cled, 16 c . a 17 c . per foot, light Sheep, per dozen.; Cnlf-skins, oak, 57c. a 60c.; Hemlock, 56c. a 60c.; Belt ing, oak, 32c. a 34 c . ; liemlock, 28c. a 31 c .
Lare.-Rockland, 8Uc. per bbl.
Lumber.-Timber, white pine, per M feet, \$17.50; yello pine, $\$ 35$ a $\$ 36$; oak, $\$ 18$ a $\$ 28$; castern pine and spruc $\$ 13$ a $\$ 15$ White Pine, clear, $\$ 35$ a $\$ 40$; White Pine,sclect, $\$ 25$ a $\$ 30$ White Pinc, box, $\$ 14$ a $\$ 18$; White Pine, flooring, $1 /$ inc ressed, tongued and grooved, $\$ 24.50$ a $\$ 25$; Ycllow Pine, flooring $11 / 2$ inch, dressed, tongued and grooved, $\$ 29$ a $\$ 32$; White Pine, Al bany boards, dressed, tongued andgrooved, $\$ 20$ a $\$ 31$; Black Wal White Wood, $\$ 45$, Black Walnut, $2 \mathrm{duality}, \$ 30$, cherry, goed, $\$ 45$; hite Wood, chair phk, 15 ; Whie Wood linch, 5. Spruce Board 15 ch , 7 c . Hemlock Ba . Re.; Spruce Boares, isc.alic.; Hemlock Boards, 12 c.a 14c., Fem
 Staves, white oak, pipe, heavy $\$ 75$ a $\$ 80$. Staves, lighite culls, $\$ 30$ a $\$ 35$; Staves do lid, heavy, $\$ 70$; Stoves do bll liph $\$ 30$ a $\$ 35$; Staves, do. bbl. culls, $\$ 20$; Mahosany-Dutr, 8 per cent d. val. -st. Domineo, fine crotches, per foot 35 c a $45 \mathrm{c}:$ St. Domi go, ordinary do., 20c. a 2 jc c.; Honduras, finc, 12\%c. a 15c.; Mexican 13c. a 15 c .
Nalls.-Cutat 3 . c . a 3 3 sc c. perib. Americanclinch sell inlots, a oe, $14^{1 \times 3} \mathrm{c}$.
On.s.-Linseed, city made, 56c. per gallon; linseed, English, 56 c whale, bleached winter, 59c. a 60c.; whale, blsached Fall, 58c perm, crude, $\$ 1.35$; sperm, unbleached winter, $\$ 1.45$; coal oil, $\$ 1$ ard oil, No. 1 winter, 90 c . a 90 c.; refined rosin, 30 c . a.40c.; camphen c. a 47c.; fluid, 53c. a 55 c .

Paints.-Litharge, American, 7c. per lb.; lead, red, American, 7c. lead, white, American. pure, in oil, sc.; lead, white, American, pure drs, 744.; zinc, white, Amelican, drs, No. 1, 5 c.; zinc, white, French dry, 4c.: zinc, white, French, in oill, Me., ochre, ground in oil, 48 Ge; Spanish brown, ground in oil, 4c.; Paris white, American, 75 c C., per 100 los.; vermillion, Chinese, $\$ 1.11^{1}$ a $\$ \$ 1.22$; Venetian red

Plasiar-or-Paris.-B hite Nova Scolla, $\$$ calined, $\$ 1.20$ per bib
res. $\$ 2$; No. 1, per 280 Sprutis
Splater plates, 5 c. a $5 \frac{1}{4}$ c. per 1 lb
Stret.-English cast, 14c. a 16c. per 1b.; German, 7c. a 10c.; Am ican spring, 5 c . a 5 \%.6.;.; American blister, 47/2c. a $51 / 2 \mathrm{c}$.
Tallow.-American prime, 11 c . per lb .
Torpentine, - Crude, $\$ 3.50$, per 280 lbs, $\$ 7.25$ a $\$ 9.25$ per box per gollon.
Wool.-American, Saxony fleece, 5cc. a 55c. per lb.; American full blood merino, 4 fc. a 48 c . ; extra, pulled, 45 c . a 50 c .; superfine, pulled, 37c. a 41c.; California, fine, unwashed, 24c. a 32c.; Califormia Zino.-Sheets, $7 / 4 \mathrm{c}$. a 7 T§c. per 1 lb .
The foregoing rates indicate the state of the New York markets na to November 24th

There has been very little change in the prices since last week, thus showing a fair and steady business.
The reports from the western cities regarding the sales of grain represent great uniformity in the prices and sales The receipts in this city have been very heary, and the stock is rapidly augmenting.
The forcign trade of this port for the last week, com pared with that of the corresponding season last year, may be epitomized thus:-
Imparts, week ending Nov. $10,1859 \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . .$.


Increase in 1859........................................... $\$ 148,688$
Foreign goods are in moderate request, except for the newest and most desirable patterns. Silks continue to be largely placed at anction, and prices almost invariably run low. Robes, with two or three flounces, meet with moderate sale, and are retailed at exceedingly low rates. Other goods are quict, and slow of sale, both at public and private sale. The salesrooms are crowded with accumulated goods.
A steady fair demand prevails for most descriptions of dry goods of domestic manufacture, and prices have undergone but little change. The manufacturers are generally engaged on fabrics for the spring trade, which promises to be large. The inquiry for export is good, and the sales present a larger aggregate than was generally looked for among the trade. Notwithstanding the present month was generally expected to be very dull, the aggregate transactions have been to a fair extent and prices have been sustained.

issued from the united states patent offige for tie weel ending noyimera $2,185 \%$.

## [Reported officially for the Sctrantrio Anfrions.]

## - Pamphlicts giving full particulars of tho mode of nnppring for 



26,150.-Charlcs J. Addy, of Ruxbury, Mass., for an Improved Clock Escapement:
I claim the independent eravity pillet, f, piroted to $n$ fixed bear-
in combination with $a$ recoil pallet ewingita with the pendulum, ins ine manner substantially as set forth.
26,151.-Moses Allan, of Utica, N. Y., for an Improve-
ment in Metal-planin, Machines:


 bing constructed, combincd and operating substantialls in the mana ner set forth.
26, 152.-E. G. Allen, of Boston, Mass., for a Combination Steam Gage:
I claim the combination and arrangement of the scveral instru-
 acingigserted in ne case, and having the hands or other indicatorrs
apon ene face or dial plate, in the manner and for the purposcs apeci upon
fied.
26,153.-Samuel Barber, of South Brunswick, N. J. for an Improved W ashing-machine:
I claim the enmbination with the $\mathbf{l}$ ver, N , for operating the frame,
, of a curved extenaion guide, R , for adjusting the frame in the a of a curved extension guide, $R$, or adusting the serrated arc, $J$
Second, The art and Second, The arrangement, with the above, of the serrated nre, J.
on top of the dash-board, $G$, for anjulting the inclination of said oard, for the purposes and in the manner epecified.
LThis invention is an improvement in the adjustment of a washing machine for adapting it to the varions articles to be washed, by ad mes the dash-board to or from the surface of the box, at the sam less mplosment of a exmental extenslon guide-piece attached to th rame of the dash-board, and operated by a friction roller attached to hand lever, so that the motion of the frame can be regulatec, and he pivot of the lever placed toits least possible working distance rom the fulcrum; and it also consists in regulating the dash-boar $y$ means of a segmental rack extending from the top and in rear he dash-board, and a pin passing down through a cross-tle of th winging
2,154.-Eli Bartholomew, of Cleveland, Ohio, for an Improvement in Bcehives:
I claim the arrangement of the outer casing, A, and the inner cas-
ing, $B$, in relation to each other, and the ventiliting onening, H, in
cover, $G$, which cover is furnished with a top, $K$, and boxes, $L$, in the manner and for the purposes specified.
26,155.-Jerred Beach, of Freeport, Pa., for an Improved Saw-set:

1. claim the arrangerment of the puide, $c$, with elot, $\mathcal{E}$, levers, $f$ and
connecting-link, $o$, set screws, 1234 and 5 , when used in connec
 nvil, i and set, $j$ o the whole being arranged and constructed sub
26, 156.-D. Berry, of Huntington, Ind., for an Improvement in Automatic Canal Bridges:
I claim the bridge, I, arranged to work on inclined wapa, F F, and
conneted by a chain and wheel, $M$ N, or their equivalents, to a ehaft connected by a chain and wheel, M, N, or their equivalents, to a thaft,
O, which is connected, by gearng, o segmente, $Q$, in line with the
bridge and the boat, sothat the former can be actuated by the movebridge and the boat, sot that the former can be
ment of the latter, substantially as described.
[The object of this invention is to obtain a bridge for canals that may be opened by a boat as it passes along, and closed by its own in its operation throughout, allowing low bridges to be used in caec where high piers and bridges are now requircd in order to allow the boats to pass underneath them.]
26, 157.-Milton B. Bishop, of Whitingham, Vt., for an Improvement in Washing-machines:
I claim the means of operating the two wash-bonrds, viz. the
arrangement and application of the two sets of levers or brakes. $F F$. arrangement and application of the two sets of levers or brakes, F $F$,
together nan with respect to the wafhhboards, $B$, disposed one over the other nad in the tub, as described.
I allo claim, in combination with the upper wash-hoard, $B_{1}$ and its
brake, $H$, the rocker shaft $K$, the slide-bar. L and the springs, $M$ M , the game belng for the purnose or objecte specifed, meanine
alsa to claim the combination of the said rocker shaft, the slide and
26,158.-Wendlin Bleser, of New York City, for Composition Cement or Mortar
I claim the mortar described, made and employed substantially as
26, 156.-Joseph W. Bradley, of New York City, for an Improvement in Ladies' Bustles:
I claim a bustle consiating of a waist- band, composed in parts of
atrips, a , of metal or other elastic mate rial, and a eniral sprine tanpred from the midd ot other elastic mate rial, and a esiral aprine, Ach end
with such waist-band substantially os doscriblied to and combined TThig invention consista in the combintion apiral epsing tapered from the middle towards anderbate, and a 26,160.-Lockwood B. Brooks, of New York City, for an Improvement in Steam $V$ alves:
I claim resdering the trio parts, $B$ and $C$, of the halancer Puppet $B^{\prime}$, to the sleave, C', by the yoke U, or itt equivalintent armanged and
operated substantials in the manner and for the purposes set forth,
 scrapers
We elasm the reversible revolving and ad justable blade, B , with pose zpecifiei
Also
the

26,162-A. J. Chapman, of Bayou Goula, La., for an Improvement in Bagasse Furnaces:


hecond, the comulnation of the that purtioned sand valtwed ait heatiue




26,163.-Mattlias P. Coon., of Brooklyn, N. Y., fior an Improvement in Apinratus for Generating Illuminating Gas:
I claim, first, Tha enarticular form and manuer of constructing and and barrel, as rep:esented in $\mathrm{Fi}_{\bar{c} \cdot} .1, A$, Xos. 1 and 3 , as combined for







26, 164 -Benjamin P. Crundall, of New York City, for an Improvement in Children's Sleds
 ners, in uuch a manner that the pole may be sectred uyder the bot and for the purposc set forth.
26,165.-Edward Crane, of Dorehester, Mass., for an Improvement in Locomotive Enginss:
I claim the combination, in a locomotive, of a boiler and engine,


26,166.-Edward Crane, of Dorchester, Mass., for an Improvement in Railroad Cars
Illaiin the use of a single long truck for the support of a railrond
car, when the frame of suid tiuck is constructed and suspended sub-
stantially as deccribed 1 tulso clain the use of cyliudrical bars of iron, passing, under the
 case the cars leave the track.
26, 167.-D. M. Cummings, of Enfield, N. H., for an Improvement in Harrow Teeth:
I claim, first, Constructing the tooth, A, of a harrow with privngs,
cified.
Seond, In combination with the above, the wedge-shaped plate,
D, unbstantially in the mannor and for the purpose described.
[Each tooth is furrished with three prongs, and attached to each of these prongs is a sharp-pointed shield, which serve to gage the depth clination, according to the soil in which they heve to work , inclination, according to the soil in which they have to work, by the frame.]
26,168.-John Davis and Ebenezer Davis, of Matilda
ville, Pa., for an Improvement in Launching Flat Boats:
 purpose set forth, when ussed in connection with the permanent stas

26,163.-Harrison Doty, of Cardington, Ohio, for an Apparatus for Supplying Sawdust to Furnaces:
I clisim the employmmant of the hatcl, Diwhen the same is cos.



6,170. -Charles Douglas, of Hebron, Conn., for an Improvement in Wagon Jacks

scribed, for the pup pose set foith.
Second The puwl
Ste

26,171.-C. H. Durkec, of Hartford, Wis., for an Improvement in Grain-binders:
I elain, first, The combination of the traveling segment, D , jointed

 ner set forth
Third. I cilim the loop-holder, c , trip block $d$, and block, e, ar-
anged and opprating substantialls as and for the purposes set forth.
26,172.-Asahel IK. Eaton, of New York City, for an Improvement in Vulcaaizing Rubber Compounds: I claim the use of a metallic 1 ath, substantially as described, for

26,173.-Gustavus G. Elias, of Lancaster, Pa., for an Improved Cabbage-cutting Machine:




26,174.-E. A. Elliott, of Port Gibson, Miss., for an Improvement in Cotton Presses: I claim, frrst, The employment of the hinged forms, , , forming ant of the bo, A. in combination with the follower, $R$, said forms
 coose cotton is instantly at the prives trime bqourht down and held inthe porper papee, to be ueted upon by the followers, $F$, substan
in thly an descrived. nlly as descrived.
Third, Iclum the
Arence, to the box, arrangement of the doors, S S and T , with re


 as iccecribed.
26,175.-George Augusi Engelhard, of New York City and Rudolph Franz Heinrich Haveniann, of Now
Brunswick, N. J., for an Improvement in Com
pounds of Caoutchouc and Allied Gums
We claim tee dexinbed proanct, istained by the action of chlorine

26, $176 .-A$. J. Emlaw, of Grand Haven, Mich., and Filliott Richmond, of Kelloggsville, Nich., for an Improvement in Saw-mills:
 as get forth.
 Sars, (O, my be adjusted nearer
be leng tho the stuff to be anved.
(The subject of this invention relates to certain improvements in that class of sawing-machines in which circular saws are used, and one It also me may be readily adjusted as circuinstances may require taliso consists in a peculiar reversing gear for giqging back the car may be readily adjust ed on the carriage to suit the length of the Etuff to be sawed.]
26,177.-Dennis C. Gately, of Newtown, Conn., for an

> an Improvement in Rubber Belting:
ing, manufactured witcle of manufncture, machine belting or band lisitue surfaces which arc as nearly as is practicully lossible perfectly

26,178.-Demis C. Gately, of Newtown, Conn., for an Improvement in Making linbber Belting:
binds of india-rubber or gutta-percha, by rolling them in thin sheet of flexible metal and then heating them, substantiaily in the manne and for the purposes des bed
provement in of Dublin, Ind., for an Im provement in Harrows:
hicels, c , arms, d, lever, a, rods, , and the harrow teeth, a, beams, $h$ et fortll . 2G,180.-John Griffin, of Louisville, Ky., for an Improvement in Cotton-Jarvesters
I claim the employnant or use of annular chambers, IG, communi of perforations, b, gnd communicating with a steam or air chambe
by means of flexible tubes, $G$, substantially as and for the purposese
forth
[This invention relat es to an improvement on a machine for pick ing or harvesting cotton bysteam, for which Letters Patent wer ranted tothe same inventor, bearin's date March 8,1859. The object ower uesent invention is to econemize in the application of this ffected by a cxtcnded in the operation of the machine. This force or power is oltained for detaching the cotton trom the bolle.] 26, 181.-P. Griswold and H. H. Seeley, of Hudson Mich., for an Improvement in Grain Separators: We claim the combination with the screen, D, of the rocking bar,
[This invention consists in giving the lowermost screen in the thoe of the separator a compound morement, and using in connec only, whercby the separator, by a very simple mechanism, is rendered very efficient.]
26,182.-John P. Hale, of Kanawha, Va., for an Im provement in Evaporating Vessel
I claint the snnerheating of the stcam or papor arising from the
evaporation of the brine, substan tially as and for the purpoe sho wu
and described. and described.
6,183.-A. J. Hall and Russell Patten, of Morristown Vt., for an Improvement in Carriage Tops:
We claim the construction of bows for folding car
oints, substantially as and for the purposes set forth.
26,184.-Louis Harper, of Riceville, N. J., for an Im provement in Fertilizers:
I claim, first, The preparation of the peat or muck or lignite, and
heir mixture with sulphate of lime, soda, potash and magnesia, when requircd to form the bases of the preparation intended for comSecond, The addition of phosphate and bi-phosphate of lime to the above basis, and the impregnation of the above mixture with am
monia, in the manner described, so as to be converted into simple and donlle salts, as above stated.
Third, The combination of

26,185.-Lewis G. Hoffmann, of Waterford, N. Y., fo an Improved Door-fastening Jins Hornig, of Newark, N. J., for an Im proved Cut-off Arrangement for Steam Boilers:
the cut-off valve, of a revolving and swinging cam, $\mathbf{C}$, applied in comquivalent, and a grooved disk, E, substantially as described.
[This invention consists in the employment for opening and con trolling the closing of the cut-off valve, of a cam, constructed, applied and operating in a peculiar and very simple manner, where the $r$ at any given point in the stroke of the piston under the control of or at any given point in the stroke of the
suitable means of adjustment, is effected.]

26,187. -Joshua L. Husband, of Philadelphia, Pa., fo an Improved Propelling Wheel:
 produce the effecta described
26,188 - R. W. Huston, of Calais, Maine, for an Improvement in Coal Hods:
I claim the arrangement ufthe bucket, C , with the external casing,
when the bucket is provided with nrim or flanch, c , around its top and with a pin on its obtom, urpow which it revolves, and when the
 rpose epecified.
6,189--George E. Inman, of Buffalo, N. Y., for an Improved Ditching-machine
I claim, frst, The cutter, 31 , arranged and operating substantiall
set forth.


elatively to each other, substantiaily ns described.
Fourth, I claim the arrangement of the tod diving-wheels, B B

6,190.-Luther Johnson, of Grand Ledge, Mich., for an Improvement in Rotary Steam-engines
I claim, first, The emplovment, in combination with a s sliding abut
ment fitted to the outer stationary cylinder of an inner revolvin
cylinder n one place by a piston extending all accoss it, substaníally as de Scribed.

 with the two sets of steam-pipes in relntion to the abutments, and
operated simultaneously by a single lever, substantially as described [This incention consists mainly in a novel system of cams an onnections for operating the sliding abutments and the cut-of valves of a rotary steam-engine, and in a novel arrangement of rc versing valves for changing the direction of the engine.]
26, 191.-H. P. Judson, of Bethlehem, Conn., for an Improvement in Ox Yokes:
I claim the arrangement of the peculiar rotary sp ing disk, $D_{1}$,
urved rods, $F$, and horizontally moving locking bolts, $B B^{\prime}$, as
nd for the purpose shown and described and for the purpose shown and described.
CThis invention consists in arranging two bolte, each havin beveled ends, upon a plate which is secured over the bow hole in he yoke beam, so that each bolt will be acted upon by suitable toned in such manner that they will anur her ioned in ench manaer that hey win approch and recede fromeach mention in mpressing this pint and allow the bow tobeinserted in its place, und when thus insert hes will simultaneonuly close aud lock the bow securely to th beam. The peration of unlocking is simplo to turn a small rin on top of the be am, when they will both instantly open and permit the bow to be removed.]
26, 192.-Cheney Kilburn, of Burlington, Vt., for an Improved Lathe Attachment

26, 193.-Elisha C. Leonard, of New Bedford, Mass, for an Improvement in the Manufacture of Parafine Candles:
I claim my improvement or improved process of treating paraffine
in the manufacture of candles therefrom, whereby 1 am enabled to dispense with a refrigcrating air bath cooled by artificial means, my
improvement or invention consisting in the employment in manner described, of the atmoepheric temperature and the refrigerating
26, 194.-Edward J. Mallett, of New York City, for an Improvement in Railroad Car Axles
I claim the combination and arran ement of the parts as represented
for the purpose of forming an a xle on which the wheels shall have and
independent motion, the whole constructed substantially as described
for the purpose set forth.
26,195.-Charles F. Mann, of Troy, N. Y., for an Im provement in Traction Locomotives Carrying then own Railway
I claim so apipliving the endless chains, A, as to make them not
only the track for the supporting whels, , of the locomotive to run on, but also the ineans by which the engine propels the locomotivo
alcug the ground, eubstantially as described. 26, 196.-James J. Mares, of Newark, N. J., for an ImFertilizers:
I claim the production of a fertilizer br combining guano and sulilents, when the said bones, or equivalent, have been treated by sul. phuric acid, as specified; the whole being
the manner and for the purpose set forth.
26,197.-Thos. J. Mayall, of Roxbury, Mass., for an Improvement in Scythe-rifles:
I claim, as a new article of manufacture, a rifie for sharpening
scythes, dic. formed of india-rubber or gutta-percha, with which
emery, sand, or other unitable gritty substances, cencery, sand, or other of sultable gritty substances, are incorporated,
substantialy, as set forth.
29, 198.-Wm. Morrison, of Carlisle, Pa., for an Improvement in Harvesters
I claim profiding the rear end of the finger with the open slot, $\mathrm{d}_{\mathrm{d}}$
Whereby I am enabled to readily remove the stationary cutters nnd
fingers, and to replace them vithout det fingers, and to replace them without detaching the bolts or nuts which
secure the fingers to the finger-bar, in the manner and for the pur-
pose 日pecisied.
26, 199.-Martin Nixon, of Philadelphia, Pa., for an Improvement in Boilers for Treating Paper Stock:
 belng constructed and arranged and distributive pipes, 1 and $J$; the wluld combined action of an unpard ctock nutader a heavy pressure, by the
rent of hot alkaline solution, and admitting of dhe readyward cur inversion of
26,200.-John K. O'Neil, of Kingston, N. Y., for an Improvement in Vapor Lamps:
I claim the arrangement of the auxiliary burner, $G$, in connection with the gas generating chamber, E, in such a manner that a cessation
of fits action on gaid chamber may at any time be effected withont
extinguighing its light bv the separation of said burner from its
influence on said chamber, as described, and for the purpose spe I slso claim the spiral revolving shade in combination with th auxiliary burner, as detce ibed, and for the purpose set forth. and graduating
26,201.-Wm. Pearson, of Windsor Locks, Conn., for
an Improvement in Sewing-machines:
I claim the combination of the vibrating looper, the cam fange
hich operates it, and the ribreting bar, J, carrying the friction

26,202.-J. B. Palser and G. Howland, of Fort Edward, N. Y., for an Improvement in the Manufacture of Paper Pulp:
 ally in the moner and form
26,203.-Wm. Phelps and W. H. Hanford, of Syca more, Ill., for an Improvement in Horse-power Machines:

## 


26,204.-Francis B. Richardson, of Boston, Mass., for an Improvement in Elastic Enema Syringes:
I clain the improvement in india-r ubbers Aringes, as an article of manufacture, which coneists in combining
percha, or other waterproof bag, with the s,
in the manner subetantially as described.
26,205.-T. J. W. Robertson, of New York City, for an
Improvement in Sewing-machines:
I claim, first, The employment, in combination with the needte of a
ewing-machine, of a plate, $K$, constructed and operating substan-sewing-machine, of a plate, S, constructed and operating substan-
tially as shown and described, for the purpose of laying and holing
braid, gimp, or other material, upon the surf ace of the fabric, as set forth
Second, The arrangement of the guides, e e e, to extend past the
center and on each side of the needle-hole, as and for the purpose set forth.
Third, The enruploymert in combination with a braid-holder, $M$, $M$,
of the adjustable slide, $N$, for the purpose of flat.tering and opening of the adjustable slide, N, for the purpose of flat.tering and ope
26,206.-John A. Seaman, of St. Louis, Mo., for an Improved Machine for Chamfering and Crozing Kegs or Casks:
Itu claim the rotating arms, a, provided with the adjustable jaw, b ,

 and for the purpose set forth
[The object of this invention ie to obtain a machine whereby kegs may be howelled and crozed, and formed complete ready to receive the heads, the work being performed very expeditiously in a
perfect manner, and with but the aid of a single attendant or operator.]
26,207.-Lemuel W. Serrell, of Brooklyn, N. Y., for an Improvement in Guides for Sewing-machines: I claim, first, A spying tucker, 13, acting to fold the edgeof the hem
against the plate of the frmmer, when combined with the adjusting screviv, , or its equivalent, whereby the pressure of the tucker onthe as set forth.
Second
Second, $\mathbf{I}$ claim the horn, 5 , in combination with the tongue, $e$, for
the puinhere aril as geceified.
This, 1 chim the arrangement of the hem-spreader stock, $h$, and gage, id, for the purposes and as specified.
Fourth
t claim attaching the suide or Fourt, I ciaim attaching the guide or hemmer to the sewing
machine by a cylindrical pin or hinge to permit the said guide or
heminer to be turned up or inverted, so that the edge of the cloth, at heminer to be turned up or inverted, so that the edge of the clloth, at
the beginning of the hem can be properly entered and folded while
in this nosition,
26,208.-Daniel Spencer, of Courtlandt, N. Y., for an
Improvement in Grain Separators:
I claim the combination with a grain separator be tween the fan
shaft and the sparating screens of a shaft, H, and a series of shidi
whate, $\bar{I}$, substantially as shown for the purpose set forth.
[The object of this invention is to obtain a simple and efficient means for regulating the speed of the shake movement of the slover as may be required, without changing the speed of the fan In order to separate grain from foreign substances by means of screens, the shakemotion of the latter should being according to the cleaned condition of the grain. If verydirty, and mixed grain is in order to work effectually. And if the grain be but little mixed and tolerably free from dirt, a slow movement would be required, as as a quick movement in the latter case would cause a portion of
impurities and foreign substances to pass through the screen with the grain.]
26,209.-John F. Stark, of Greensburgh, N. Y., for ata
Improved Composition for Protecting and Ornamenting the Surface of Wood:
alcohol, claim the employment and the alcoholic varnish described of sulphur and
alcohol, or sulphur and the alcoholic varnish described, in the prop
tions and manner shown and described forthe purpose set forth.
fThis invention consists in the use of sulphur in a crystaline state
in combination with alcoholic varnish, for the purposes of covering surfaces of wood, or other material, to protect or give an ornamantal appearance thereto.]
26,210.-James Stratton, of Brooklyn, N. Y., for an Improved Appar
I claim the employment or uae of the air-cchamber,, $\mathbf{E}$, diaphragm,
D, or its equivalent, with valve, $\mathbf{C}$, attached, the pipe,, $\mathbf{B}$, contain-
 provided with the cocks, H I, and the pipe, G, commannicatitg with
the pip. F and $\overline{\text { B the above parts being aranged in relation with }}$
each other and the supply pipe, A, to operate as and farthe purpose set forth.
26,211,-L. Taylor, of Jordan, Wis., for an Improvement in Apparatus for Elevating Waterfrom Wells, \&c.:
1 clain, first, The employment or use of the aprings, $D$, arranged
in conucction with traveling jackets, $G I$, and receivers, $B \quad B$, to operate as snd for the purpsse set forth.
Second, The meang, substantially as show, of connecting the Second, the means, substant:ally as shown, of connecting the
lack e, I to the carriage, $J$, to wit the lever,
vided on the carriage, pro-


[^0]on carriages that run on inclined wires or ways from the well or spring to the house. The object of the invention is to facilitate the application of the device or its adaptation in all cases whereii may bucket both as regards its travel cver the inclined wire or wayits filling and emptsing, also the proper manipulation of the same to ensure the durability of the device.]
26,212.-Saml. Thomas and John Thomas, of Cattasau
qua, Pa., for an Improvement in Air-heating Pipes for Blast Purposes.
We claim supporting both of the legs of the arched pipcs, $G$, upon

one bottom tube, constructed substantially as described, $\begin{aligned} & \text { bo that in- }\end{aligned}$ din one bottom tube, constructed substantially as described, so that in-
jury to gaid pines, by the displacement of the bottom tubes will be
prevented; and sothat each bottom tube, with its conneeted arched pipes, may be remoced and replased, without disturbing
rema iug arched pipes, or bottom tubes, all as set forth.
26,213.-Thos. Tripp, of Buffalo, N. Y., for an Improved Propeller Wheel:
I claim a apropel ler wheel, having blades formed in r espect to their
main p propelling surfaces, au d also in re spect to their outward ares, substantially as described.
26,214.-David Walling, of Garrettsville, N. Y., for an Improved Washing-machine:
I claim the e combiua tion of weighted arms, $D$, join ted connecting-
od, $I T$ angular lever, $G$, rod, $a$, vibrating dashboard, $K$, and dash[This, when the same are allarranged and to cperate as set forth weighted arms with. a vibrating dashboard, and a fixed vibrating dasher, so that the operation of cleaning the clothes is effected with a very little manual labor,
chine with perfect ease.]
26,215.-M. D. Wells, of Morgantown, Va., for an Improved Washing-machine:
I claim the reciprocating plunger, operated as described, in com-
ination with the rack piece,
d, mo ved by the plunger, inita back ward motion, and springs, $\mathrm{d} d$, theoving said rack in place, the whol
26,216.-J. Whiteside and H. F. Crabill, of Fuller'
Corners, Ind., for an Improvement in Cultivators: We claim, first, The arrangement and combination of the hinged
curved shovel beams, $A$, cross-bar, $D$, and gaging wheel, $F$, sul
 Second, The curved dishlytht-bearn, B, arranged as deacribed, in
combination with the cross-bar, D. handile, , and rod, h, substan-
[This cultivator is arranged with two curved shovel-beams which can be used with their concave sides facing each other, and also re ersed bringing their concave sides towards each other, whereby號 heel rranged thern the depth of theshovels cut. Thedraught-beam ith ccording to the position an the attached to one end or to connectin the two ends of the draught-beam forms the guides for the handle henever the position of the shovel-be:imsis changed.]
26,217.-R. G. Wilkins, of Burns, N. Y., for an Improved Washing-machine.
I claim, first, The canbinatinn of an upper rotary rubber, with re-
volving slats, with twoor more lover rotating rubbers with re volving slatz, alranged substantially as described for the purposeset forth. slate, arranged substantially as described for the purposeset forth
Second, I claim arranging the undulating guracio of the slats in the
upper rubber, so the projectiong come opposite to each eher through upper rubber, so the projectiong come opposite to each e thert hrough
opt, wher the arme is combined witha lower rotatig rubber in
ohiche which the projections of onerlat are a ranged oppositc the depressions
in the adjacent slatt, and anso when the elants of the nppe rubbcr aro
ar arranged in relation to
the purpose set forth.
2: $\mathbf{0}, 218$.--John Williams, of Ashfield, Mass., for an Improved Washing-machine:
I craim the combination of straight fluted rollers, placed in the box
f the machinc in the form sern in the model, and two arms connected by a handle at one fend, and attached by the other to the extremi-26,219.-E. A. Willis, of Cold Sprin

Improvement in Floating Batteries:
I claim the combination of thecentral upright shaft, soapplied that it may gerve to anchor the battery, and und that the battery may revolve
around it, and a system of propellers by which the battery may be around it, and a system of propcllers by which the batters may be
either caused to revolve around the said central shaft while at
anchor, or propelled from place to plice, when the said central shaft

26,220.-T. W. Wilson and Lewis Raymond, of New
York City, for an Improved Disengaging Hook for
Liberating Ships Boats
We claim the combination of a detachable hook, consisting of an
open eqeand pin connbined with eaclo other, substantially as set forth
with a pulley block for lowering a boat,
Weacho clam the combination of a detachable hook with the davit, or object from which a boat is lowered by means by means ofa lan-
yard, that in independent of the lowering tackle, in such manner that
the combination as a whole operates to free the boat f rom the tackle
by the taughtening of the lanyard.
26,221. - Michael Werk, of Cincinnati, Ohio, for an
Improvement in Lining Tanks for Fatty Acids: I claim the lining of the tank or metal vessel used with wood and
cement in the manner set forth.
26,222.-C. M. Wilkins, of Madison, Ohio., for an Improved Cheese Vat:
I claim thearrangementof the valves, $N$ and $O$, within the water
chamber and vat, substautially as described.
26,223.-Sylvester P. Wheeler, of Bridgepori, Conn.
(assignor to Moses H. Wheeler \& Co., of same
place), for an Improvement in Manufacture of Ni-
trate of Silver Crayons:
trate of Silver Crayons:
I claim the manufacturing or forming of sticks or pieces of nitrate
of silver or luar caustic, with one or more wires or ribbon of metal
running through the pame to which the nitrate of silver or has running through the eame, to which the nitrate of silver or metana
caustic adheres and still holds to the wire., wires or ribbon, ihhen used or otherwise, when broken.
26,224. - Harry Abbott, of North Huron, Ind. (assignor
to himself and Emerson Abbot. of same place),
for an Improycment in Centrifugal Water-wheels: I clain: the combination, with a centrifugal water-wheel, $A$, of a and, at the same time, be adjustable while the wheel is in motion, by
means of the bsil, c, concentric rod, $H$, and adjustinglever, I , sub stantially as set forth,
26;225.-J. A. Althouse, of Philipstown, Ill. (assignor to himself and F. W. Lechtenberger, of New
Harmony, Ind.), for an Improvement in Machines
for Raking and Loading Hay: for Rakin and Loading Hay:
I claim the comminntion of the stationary rake, $\mathbf{C}$, revolving rake,
I, and vibrating lake $K$, placed on a mounted frame, and erringeil
for joint operation substantially as and for the purpose set forth.
tThis infention
evolving and vibrating rakes, mounted on wheels and arransed for joint operation, where by hay or $g$ uin may be loaded on a wagon or
cart with far greater facility than by the usual exclusively manual cart with
process.]
26,226.-Gillett Bunting, of Liberty, Ind. (assignor to himself and W. M. Jarrell, of same place), for an Improved Churn-dasher:
I claim producing the viloratory movenient in the cylindrical churn-
dasher, by means of the combination of said arms with the crank partion, of means driving-wheel and intermediane connoecting rod rod when
these are used in connection with the current-breaker, $K$, as set these ar
forth.
26,227.-James T Coxell, of Brooklyn, N. Y. (assignor to himself and Edward Jones, of same place) for to himself and Edwar
I claim, first, The arrangement of the rollers, A B B, above the
table,
as shown and described.
Second, The combination with the weighted levers, $L$, of the lifting
Second, The combination with the weighted levers, L, of the lifting
ropes, , or their equivalents, so that the downward pressure of the
roler, A, may be released, and the roilcr lifted at at the will of the
operator to allow such portion of the linen that have buttons or operator to allo
otherelevations
and described.
26,228.-H. E. Fickett and John W. Summers, of Glenns Falls, N. Y. (assignors to H. E. Fickett, aforesaid), for an Improved Bed Bottom:
 spinge, C C CC,
brace,
purpose, arrangecified.

26,229. - Horatio P. Gatchell, of Ravenna, Ohio (assignor to E. J. Bates, of Bedford, Ohio), for an Improvement in Coffee Pots:
I claim the forming of the walls of the cups, $\mathbf{B}$ C and $F$, with male
and female screws, as described, in combination with the perf orated and female screws, as described, in combination with the perforated
bottoms, E and E , for the purpose of compressing the ground coffee
and extracting the strength of the drug by displacement, in the man. ner specified.
26,230. -Wm. Darker, (assignor to himself and J. B. Thompson) of Philadelphia, Pa., for an Improved Mode of A
I coad, first, Placing a steam-engine and steam craratator on the
top of a city ralroad car, when the eugine, by suitaile driving-metop of a city raflroad car, when the engine, by whitaile driving-me-
chanism, is connected with the wheels of the car, to propel the Second, Connecting the governor, N, with a throttle valve and
brake arranged substantially as shown tooperate as set forth Third, The particular arrangement of the brake, formed of the
tri, $\mathbf{Z}$, on wheel, $K$, and actuated by the movement of the yoke, Y strip, Z, on wheel, , , and actuated by the movement of the yoke, Y,
on itt bent ends, e e, connected with the hand lever rod, V, mbi-
stantially as shown, so as to allow of the adustment of the throttle

CThe object of this invention is to ayply steam as a motor directly employed will not be cumbersome, and entircly outof the passengers' ray, and at the same time so arranged and adapted to the car as to preclude the posssbility of the engineer or aytendant running the car beyond a proper spced, and also insming a perfect control of the
speed of the car in descending grades. The invention will be underspeed of the car in descend
tood by the above claims.]
26,231.-Augustus J. Goffe and Demus Goffe, of Cohoes, N. Y., (assignors to Downs \& Company, of ting-machines:
We claim the rotary burr-presser, M, having inclined planes, a,
between the teeth in combination with the sliding needles atranired and operating substantially in the manner and for the purpose
We also claim varying the eccentricity of the groove, $f$, by mean of the movable puller, g, sping, k, adjusting-screve, hard friction-
pulley, 1 , wabstantially in the maner and forthe purposes herein
described.
26,232.-Liveras Hull, of Charlestown, Mass., (as signor to himself and A. Wheeler, of Boston, Mass.,) for an Improved Method of making Copa Varnish:
I claim my new manufacture of varnish, as composed of gum co-
pal, camphene and alcolachol, unitedin the proportions in a cool state
26, 233.-Henry W. Joslin, of Trenton, N. J., and A. K. Eaton, of New York City, ssignors to the Joslin India-rubber Company of New York) for an Improvement in the Treatment of india-rubber: We claim the treatment of thoargilaceous red shale of New Jerseg
or other similar geological localities, in combination with sulphur and
caoutcho for the manufacture of india-rubber.
26,234.-James S. McCurdy, of Brocklyn, N. Y., (asImprovement in Sewing-machines:
I claim the vibrating lever, g, carrying the shuttle-driver, $h$, and
,rovidel with the spring, $k$, to keep the shuttle-driver to the racewar lrovitel with the spring, $k$, to keepthe shuttle-driverto the raceway,
the whole constructed and operating as and for the purposes speci-
fied.
26,235
235.-Henry M. Scott, (assignor to himself and Samuel Adlam) of Portland, Maine, for an Improved Bed-bottom Spring:
I cl aim the employment of spring hooks, A , and clamps, D , sub-
stantinill as described, for the purpose of attaching strips of web-
bing to the frame of a bedstcad.
[By means of this spring the employment of webbing for bed bot toms is rendered practicable. The ends of the webbing are securely
held over their entire width, and the $\$$ sck can be taken in without held over their entire width, and the $\$$ ick can be taken in without
much trouble.] much trouble.]
, 236.-Parmenas P. Parkhurst, of Princeton, Mass., for an Improsed Ore Soparator:
I claim the washing-box or cl: and wer, a, constructed with the nipe,
h. entering ncar the bottom, to cause a whirl and circulation, as spefied and with the gate or overtlow, $c$, forthe purposes and as de-
slaim the receptacle or box, e, and chamber, foto receive the xsetal-
cic particles when the gate, d , is raised, as set forth.
26,237.-John Thomas, (assignor to himself and John M. Lord) of Indianapolis, Ind., for an Improvement in Piling Railroad Bars for Re-rolling: I claim the tie No. 7, or its equivalent, when ued itr interlock ing
Fr-a.il or other old iron, and forming the pile of six rails, shown in
Fig. when constructed and arranged as and for the purposes set
forth.

26,238.-E. T. Weeks, (assignor to S. H. Babcock) of Franconia, N. H., for an Improved Shoe-pegging Machine:




## re-issues.

Berresford Maria King, of New York City, Executrix of Valentine Hall, deceased, late of said New York
city, for an Improvement in Apparatus for Coolin
Liquids. Patented Sept. 20, 1859:

 $\underset{\substack{\text { to the } \\ \text { forth } \\ \text { Seco } \\ \text { Sed }}}{ }$


 siphon, 1 , extending
[This invention consists in placing one or more receivers, with or without a pump, within a tank supplied with ice water, or water at a and the pump, if one be used, by means of a siphon or siphon which are placet in communication with the supply pipe, whereb Hquids can be drawn in a cool state direct from the supply pipe, and the refrigerating device readily cleaned when necessary, ${ }^{-}$all the parts being rendered very accessible. See engravingin No.18, pre volume

Joseph W. Fawkes, of Christiana, Pa., for an Improve ment in Machines for Plowing. Patented Jan. 26 1858:
I claim, first, The employment, in combination with the locomoSecond Id not claim broady the invention of movable spurs,
but I claim the combination of the sliding purs, kk, with the bilge but 1 elaim the combination of the sliding apurs, $k \mathrm{k}$, with the bilge
shaped driving-wheel, E , as show n and described. Third The arrangenuent of the adjustable frame, plows, gage-
Wheel, driving whecl, engine, boiler, and guiding-wheols, as ahown

Septimus Norris, of Philadelphia, Pa., for an Improve ment in Running Gear of Locomotire Engines Patented Sept. 26, 1854. Re-issued March 2, 1858
I elaim the combination of a free vibratiug-truck, with six or more
of the center of gravity of the entire engine, substantially as and
William Oldham, of Buffalo, N. Y., for an Improve ment in Steam-boilers. Patented June 7, 1859: I claim, first, 'The central water spice, $\mathrm{F}^{\prime}$, in the combuation-
amber, $F$, arran ged in relation to the nnnular water space, Fi't, and
and
Second, Placing the annular sheet, $G$, and horizontal plate, $I$ Second, Placing the annular sheet, $G$, and horizontal plate, 1 ,
(whick with the jacket form the mmoke-pipe M) outside of the
water pace to allow the sediment to be convenientiy removed from whe water space, in commumication with the deescribed arrangemen
the the return tubes, D , substantially as set forth.
designs.
Elemir J. Ney, of Lowell, Mass., (assignor to the Low ell Manufacturing Company) for a Design for Car pet Patterns. (2 cases.)

ADDITIONAL IMPROVEMENT.
Benjamin F. Wells, of Georgetown, D. C., for an Im provement in Naval Architecture. Patented Oct 18, 1859:
I claim making the lines of every section of a vecssel from the keel
t the water line arcs of circles, when said arcs have geparate and
tependent centers determined substantially in the manner do ${ }_{\text {scribc }}$ d.

EXTENSIONS.
Christian V. Qucen, of Pcekskill, N. Y., for an Im provemer ${ }^{\text {'t }}$ in Forges. Patented Nov. 18, 1845:

 abstantially in the mat wer made known
Joseph E. Anderson, of $L^{\text {Zoston, Mass., for an Improve }}$ ment in Planing-maci ${ }^{2}$ ines. Patented Nor. 21 1845:
I claim the manner shown of forming, arranging and combining with the revolving cutter-wheel, the revohing platform and the end
less aprons between which the bord to be planed is to be passed, by less aprons between whichent and combination it in firmly held
means of which arranyement
along the whole length of such apron and carried regularly forward withaut deviation.
George Faber, of Canton, Ohio, for an Improved Magnetic

## 1845

## I claim the method herein described, or any other substantial ly the same, of indicating the rise und fall of water in a steam-boiler or

 semerath connected with a float or any other body within the boile mearnet connected with athat rises and falls with
enbstantially as described.

Nore-The above list of patents contains murty-ons which were prosecuted threugh the Scientific American Patent Agency. Al though not so many as we frequently obtain, some weeks, we consider It a very good week's business from one ageney.

Literary Notices.
Edinburgh Review. Published by Leonard Scott \&


concocted to defeat the election of Sir Joseph Paxton to the Britigh
Parliament and that it was got up by a political cabal, who bribed
the ringleaders ammong the workmen.

The Atlantic Montilly. Ticknor \& Fields, publishThe Decertaber
 new pubisherra afirm, in italics, that '".' The Atlantie' has never
been, and willnever be, a sectional journal.'
The Matiematical Monthly J. D. Runkle, A M. A.A.A.S, editor, Ivison o Phinney, this. it cy, rublishier, beautiful style, and devoted wholly to the disisussion of nut thematii cai iroblems. We suppect
the $"$ New York Ledger."
New York Coachafakers' Magazine. Published by This M. Stry interent this city.
 class
ted.

E. M. R., of Va.-According to your recollection, i Robert Stephenson had not magnanimously decllined the usual al lowance made to vessels of the eize of his yacht "Wave," he would have bcat the "America" in the famous race. We remember readue, in an Endilh pubinalion devod to good-natured and very graphic account of the race. The writer through, an immenser ward, ther had constont oceasion to rely to the "wil "Is the wara, they had constant occasion to reply to the hail, "Is
R. M., of Pendleton.-We do not remember to have re ceived any specimen of copper from you. You tha better send another to E. N. Kent, No. 30 Wall-street, this city,for analysis. P. C., of Pa - You are required by law, on presenting an applicationfora patent, to define, and, at the same time, clearly and honestly explain, your invention. If you have fuiled to do this, you have no right to complainof the Commissioncr of Patents for refusing to grunt you a patent. Inventors nometimes think they can get a patent wihout explaining their scerct. This is ab sura,as he haw cond be no protecion to un liventor whiess he the
H. W. W., of Ky.-It is generally acknowledged that pure sperm is the beet oil for lubricating machincry. Althougl higher in phee han oher ons, that not condared more expensive, because it affords such good rcsults, and is the most durable. This opition we have derved from several maniaiss, wh hav ried vallous kad of ill. A cheaper oil, equalls as good, is de factories is incurred for this lubricotor. much mproved for much mproved for the gallon; and when billed it is ollowed to settle until sediment fulls to the bottom. The clear: is then run off, and used for the machinery.
C. O. R., of N. J.-We decide not to publish the article you send us, upon the cut-off and throttle-valve, taken from a dails paper. We win stace, ho writer Whe operallo the same objection would apply to all ingh-pressure reciprocating
engines, whether govarned $b y$ the cut-off or not $;$ or even if the worked under the full head of steam throughout the stroke. The cut-off has nothing to do with such an effectas he described.
N. P. M., of Ohio.--It is a law in mechanical work that action and re-action are equal. The ball would not fall with greater force than that required to make it ascend.
J. C., of Mass.-You complain that we did not answe your letter in regard to the probability of your being able to find a market here for your patent clocks. If you will stop and reffect a momeat, you will see that sacha question does not belong bo us investigate and answer. Simply because you arc one of our subation about not "enitite you to our time in looking gyinform be worth the subseription price, else you would not take it. Ou rule ts to cognize the principle that anberiber becouse he is a subecriber has a right to demand our time in a business matter withoul: com pensaation. We carefully answer all inquiries $p u t$ to us by our read ers, whe we can do so whoul heil manke of time ; and we have tion tep
S. B., of N. J.-If, as you state, thunder or electric clouds are always miaus, and the earth plus, then no discharges to the oarth can take place. In otherwords, wereyour views correct, no house, tree, man or beast would ever be lightning-struck.
A. S., of Pa.-You appreciate the advantages of having the extremity or point of the lightning-rod made of a good conductor; hence, you are right in condemning the use of German silver pointa. A silver point is better than one of platina, becauze so difficult to fuse, and tonducting capacity. Platina, however, in heavy discharge of the fuid, that the platina, on this account, some may prefer it.
W. M., of Ky.-H. Bailliere, No. 440 Broadway, this city, , st the a asent for Muspratt's chemistry.
B. \& O., of N. Y.-H. B. M. Birkenbine, Chief Engineer of the Philadelphia Water.works, has charge of the vers binc whels By writing to him, you ana saeertain whether you are too late too have your wheel teated.
. M., of Mich.-On examination, we find that our statement in regard to the first locomotive nspon in this country wa
correct. It was, in ls31, on the Mohawk und Indodou Bailioad.
S. E. R., of Pa.--Your question is, Will water pass tng on to an overelot wheel, through an operiify one foot in high do more work when the supply in the forebe $y$ 's of feet hish tha when it is but one foot high, the supply beang resstant in bot which the water atrikes thew heel; if it strikes the that the no mentur wil be expented in turine the wiea will seneval be he case, then the wheel will run faster when teo water is hisl in the forclay.
J. C., of Mount Pleasaat.-Attempts hava ceen made to drive machinery with guapowder, and it they had been succeseful the light engine io fly with would have been produced. Two diff couled the machinery, We do not thiuk your plup pacicalle
W. A. M., of Mass.-VVe know of no substance more certain to explode, on bcing struck, than fulminating mercurr, with which percussion caps are charged. Atmospheric air, on being sud D. M. C., of N. Y.-There are two causes of the pro longed sound of thunder. One is that the lightning generally moves in a direction somewhat towards or from the spectator, and the sound produced ncarest him reaches him eooner than that pro duced at greater distances. Another reason, assigned by Profecso Pearce, is the $a r y$ g cloud through which the sound passes. Yourquestions in astron oly of moll astronumy. Prof cssor Olmstcad's will be suitable for you.
. M. R., of Va.-Singular nouns ending in s (single) form the possessive by takiug an apostrophe and s. There are good authorities for omitting the second s, butwe notice that most of th god witers Mor in we hive siven. Morgan Jame, of Ulia, an Daniel Mbl, of No. in the Sust in the to
 tion of the lime gtove invented by W. W. Albro of Binghamton, N. Y
. only work, published in this city, that contains a list of all thepat ents granted since 1847
H. R., of Mass.-We are aware that you are a join patentee with Mr. Leonard, in the method of manufacturing par fline candles, for which the pacent was issued on the 8th of Fe ruary last, but Mr. Leone mave him credit, and no other person bas the right to claimany glory for th improvement.
S. S., of N, J.-You can make a beautiful, quick-drying varnish for paper or linen, as follows:-Take gum sandarach, 8
oz.; Canadian be.lsam, 4 oz.; and diesolve them in a quart of alcooz.; Canudian beulsam, 4 oz.; and diesolve themina quart of alco hol. Varnish made with gum resins and turpentine do not dr sn fast as those made with alcohol, but they are not so liable to crack.
H. W. C., of N. Y.-A very small amount of sulphate of iron should be used in making black ink with logwood; an ounc is sufficient fora gallon
C. T. M., of S. C.-You can put up a line of telegraph in any part of Caliororiu and use a visual signaling telegraph like that emploged in England; but if you use an electro-magnet to make records or produce eignals of any kind, it would be con sidered un infringement of the Morse patent.
S. I., of Del.-'Two sets of blocks and falls rove fourfold and set up on aagle frames are sufficient to elevate a steeple frame or 7,000 pounds weight. You must be carefulin secun the breaking when raisıng the steeple.
J. K., of Del.-Resin gas possesses double the illumina ting power of coal-gas, but we cannot tell you the relative value of the gas made from saw-dust, to which yourcfer
H. J. G., of N. Y.-Solar oil is simply a market name for a certain quality of coal-oil.

## Money Received

At the Scientific American Office on account of Paten Ofice busincss, for the week ending Saturday, Nov. 26, 1859 :A. D. H., of Mich., $\$ 25$; J. S., of R. I., $\$ 25$; D. S. H., of R. I $\$ 25$; G. A. W., of N. Y., $\$ 30$; J. C. W., of N. Y. $\$ 25$; N. A. P. C $25 ;$ G. A. W., of N. Y., $\$ 30$; J. C. W., of N. Y.. $\$ 25$; N. A. P., o
Tenn., $\$ 30$; J.Q., of N. Y., $\$ 30$; M. $\&$ B., of R.I., $\$ 25$; R. M.C enn., $\$ 30$; J. Q., of N. Y., $\$ 30$; M. \& B., of R.I., $\$ 25 ;$ R. M.C
of Mich., $\$ 30$ J. H., of Ill., $\$ 40$; E. L., of N. Y., $\$ 30 ;$ D. De F D., of Mass., $\$ 30 ;$ B. $\&$ C., of N. Y., $\$ 30$; W.S. M., of Pa., $\$ 60$;.$~$ d., R., of N. Y., $\$ 65$; I. S., of N. Y., $\$ 30$; I. M. L., of R. I., $\$ 30$; P tR., of N. Y., $\$ 65$; I. S., of N. Y., $\$ 30$; I. M. L., of R. I., $\$ 30$; P
T., of N. J., $\$ 30$; E. M. \& J. E. M., of N. Y., $\$ 35$; E. P. M., of Mass., $\$ 50$; L. B. D., of Wis., $\$ 25$; J. S., of Ohio, $\$ 30$; W. A. G., of N Y., $\$ 30 ; \mathbf{H} . \mathbf{A} . \mathbf{M}^{2}$, of N. Y., $\$ 160 ;$ J. T. R., of Pa., $\$ 30 ;$ A. R. W. I Pa., $\$ 30$; M. P. ${ }^{\top}$., of R. I., $\$ 30$; V. M. B., of Pa., $\$ 30 ;$ L. B
D., of Wis., $\$ 60$; G. K., of N. Y., $\$ 10:$ L. S. C., of N. Y., $\$ 110 ;$ M K., of N. Y., $\$ 39$; J. E. E., of Cal., $\$ 10$ : M. \& H., of Mass., $\$ 25$; R W. H., of G.., $\$ 35$; F. O., nf N. Y., $\$ 25$; N. A., of Conn., $\$ 55$; D N., of III., $\$ 25 ;$ I. P. L., of N. Y., $\$ 10 ;$ R. N. T, of Conn., $\$ 30 ; \mathrm{L}$ F., of N. Y., $\$ 20$; S. B., of N. J., $\$ 30$; B. S. C., of N. Y., $\$ 33$; G
H. S., of Mass., $\$ 30 ; \quad$ E. P., of Pa., $\$ 30$; W. D., of III., $\$ 10^{-}$ H. S., of Mass., $\$ 30$; E. P., of Pa., $\$ 30$; W. D., of Ill., $\$ 10$;
M. C., of Mass., $\$ 35$; J. F. H., of N. Y., $\$ 25$; W. B. C., of L. I., $\$ 57$; J. P. G., of N. Y., $\$ 55$; H. B. J., of N. J., $\$ 25$; C. H. D., of
Miss., $\$ 55$; W. T., of N. Y., $\$ 30$; J. D. B., of Vt., $\$ 30$; B. D. $\&$ F., Miss., $\$ 5 ;$; T., of N. Y., $\$ 30$; J. D. B., of Vt., $\$ 30$; B. D. © F.,
of Pa., $\$ 30$ O. M. P., of Ill, $\$ 25$ G. B. L., of N. Y., $\$ 30$; T.II. B. of Pa., $\$ 30 ; 0$.
of $\mathrm{N} . \mathrm{Y} ., ~$
$\$ 25$.

Specifications, drawings and models belonging to par ties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Nov. 26, 1859:-
F. M. \& J. E. M., of N. Y.; W. A. S., of N. Y.; J. J. A., of N. C. F, H., of N. Y.; I. H., of N. Y.; L. S. C., of N. Y. [two cases) ; M , of N. Y.; W. S. M., of Pu. (two cases) ; T.H. W. \& Bros., of Ga, . Y. (two caser) ; B. C C of N. Y.: J.P. G., of N. Y.; H. B. J., o N.J.; W. C., of Iowa ; M. \& II., of Mass.; A. D. H., of Mich.; G. K., o



[^0]:    〔This invention relates to certain improvements in that class of
    water-eleyating devices in which the buckets or pails are connected

