FOREIGN SUMMARY-METALS AND MARKETS.
The price of gas in most of the cities of Great Britain is less than one half that of New York. In London it is only four shilling sterling (not quite a dollar) per 1,000 cubic feet. Mr. Flintoff, in delivering a lecture on this subject recently in Glasgow, stated that, while five shillings per 1,000 cubic feet were charged in the Scotish city, or one shilling more than in London, the coal was one shilling less in price ; thus proving that companies which had the monopoly only regarded their own interests and made all they could out of the people. He asserted that gas-making was not that mysterious operation some imagined, and that a new company could manufacture gas in Glasgow with a reasonable profit, at two shillings and eleven pence per 1,000 cubic feet, not one-third the priee of New York gas.
Messrs. Burns, of Glasgow, the principal stockholders of the Cunard steamers, are perhaps the greatest steamship proprietors in the land. They have lately contracted, in conjunction with Mr. Mac Ivor, of Liverpool, another proprietor, for six new large iron screw steamers, four for the Mediterranean service, and two for the Glasgow and Liverpool trade. Besides these, they have also either four or five still larger steamships in the course of construction for the Atlantic trade between Liverpool and American ports.

A new screw steamer, called the Thetis, of 680 suns burden lately made the passage between Greenock and Liverpool, burning only $1,018 \mathrm{lbs}$. of coal per horse power, per hour. No less than four and five lbs. are generally consumed in steamers per horse power.

Returns of the mineral wealth of England for 1859 have just been published. It amounts to $£ 31,250,000$ sterling in value. Of coal there were $65,008,649$ tuns raised, of iron, smelted from the ore; $3,456,064$; copper, 14,456 ; lead, 68,303 ; tin. 6,920 ; silver, $569,345 \mathrm{oz}$. The yield of copper ore was 226,852 tuns.

A great trial of reaping-machines, recently took place in Belgium on the very field where the famous battle of Waterloo was fought. It was anounced beforehand that 26 machines would compete for the prize, but only four entered into the contest. These were Burgess \& Key's (McCormick's), Bell's (Scottish), J. A. Teelan's (Hussey's), and Cranstoun's (Woods). These were all American reapers, with one exception. The prize was awarded to Bell's, and this gave great dissatisfaction to most persons present, because it was held to be inferior in many respects to two of the others. It cut the grain (oats) very well, but it could only be turned with great difficulty, and was not very manageable. It laid the cut grass beautifully in swaths, and this appears to have been the main merit which it possessed. Burgess \& Key's machine was of superior construction, and in a subsequent trial (not for a prize) it cut a field of trefoil, which Bells' had failed to do, and the machine was instantly purchased by one of the jury who had awarded the prize to the Bell machine. These statements are taken from the Brussels Messenger.

In several of the seaports in England schools have been provided for training boys for the mercantile marine. The government has given the old frigate Conway to Liverpool for a school, and great efforts are being made to elevate the character and qualifications of the common sailor. Hitherto such efforts have been confined to government-dockyards, in training youths for the navy. The low character which sailors have acquired in American ships, by our ship-owners employing the scum of all nations, forcibly calls for some great effort to revolutionize our entire mercantile marine, and a school for training boys in New York should be tried to see what effect it will produce. We think it would work well, if conducted upon correct principles.

It has been announced that a great reduction was about to take place in the French tariff on foreign metals, and hence we find that, as a consequence, pig-iron has bcbecome firm in expectation of a large demand from France. The prices in our table are unchanged since our last, but in consequence of reports that Louis Napoleon is in favor of free trade, great expectations have been excited among the metal-workers of Sheffield and Birmingham in regard to large demands soon to be made for their cheap manufactures.

American candles, with S. R. Weeden's wick, manufactured at Providence; Re. loj ere on the track of tritish


America, and beginning to supersede them in some in stances. The wick in these candles is self-consuming, and requires no snuffing-a very inportant improvement in tallow candles.
prices of foreign metals, sept. 5.
Scotch Pio. No.....in
London

[The above are pr
being valued_at $\$+.85$.

## New York Markets

Coas.-Anthracite, from $\$ 3.50, \$ 4.50$, to $\$ 4.75$.
Cotron.-Ordinary-Uplands, 934c. per 1b.; Florida, $93 / 4$ c; Mobile, 34c.; New Orleans and Texas, 914c. Middling-Uplands and Floriands and Florida, $12 \%$ c.; Mobile, N. O. and Texas, 13c. Fair-Uplands and Florida, 12\%c.; Mobile, N. O. and Texas, 13c. FairCis and Flo $12 / \mathrm{c}$.; Mobile, 13xc.; N. O. and Texas, 14c. Coprer.
Flour.-State, good, $\$ 4.70$ a $\$ 4.75$; State, extra brands, $\$ 4.75$ a 4.50. , $\$ 5$ a $\$ 6$; Richmond City, $\$ 6.50$ a $\$ 7.25$; Baltimore, $\$ 5$ a $\$ 6$. Glass.-American Window-First, second, third and fourth qualies, per 50 feet: 6 by 8 to 8 by $10, \$ 3.50$ a $\$ 3.75$; 8 by 11 to 10 by 15 a $\$ 3$; 10 by 16 to 12 by $18, \$ 4.50$ a $\$ 3.25$; 12 by 19 to 16 by $24, \$ 5.2$ 25 by 36 to 30 by $44, \$ 9$ a $\$ 5$. These prices are subject to a large dis. count-somet1mes 50 per cent.
Hemp.-American undressed, $\$ 140$ a $\$ 150$; dressed from $\$ 190$ a $\$ 210$. Jute, $\$ 9$ a a $\$ 90$. Italian, $\$ 2.75$. Russian clean, $\$ 210$ a $\$ 215$ Manilla $6 \% \mathrm{c}$. per lb .
India-Rusiars.-Para, fine, 56c. a 60c. per lb.; East India, 37c. 40c.
Indigo.-Bengal, $\$ 1$ a $\$ 1.50$ per lb.; Manilla, good to prime, 5 joc. a 1.10: Guatemala, $\$ 1$ a $\$ 1.15$.

Iron.-Anthracite pig, $\$ 28$ a $\$ 24$ per tun; Scotch, $\$ 23$ to $\$ 23.50$ $\$ 54.50$; English ordinary sizes, $\$ 85$ a $\$ 87.50$; English refined, $\$ 503$ a 11c. a $111 / \mathrm{c}$ c. per lb.; English, single, double and treble, $31 / \mathrm{cc}$ a $37 / 8 \mathrm{c}$.
Lead.-Galena, $\$ 5.75$ per 100 lbs ; German and English refined, LEAD.-Galena, $\$ 5.75$ per 100 lbs ; Germ
$\$ 0.70$; bar, sheet and pipe, from 6 c . to $6 \frac{1}{4} \mathrm{c}$.
Leather.-Oak slaughter, light, 33c. a 35 c . per 1b.; Oak, heavy, 30 c . a 33c.; Oak, crop, 38c. a 40c.; Hemlock, middle, 23c. a 24 c .; Hemlock, light, 23c. a 24c.; Hemlock, heavy, 22c. a 23c. Patent enameled, 16c. a 17c. per foot, light. Sheep, morocco finish, $\$ 7.50$ a $\$ 8.50$ per dozen. Calf-skins, oak, 57 c . a 60 c .; Hemlock, 56 c . a 60 c .; Belting, oak, 32c. a 34c. ; Hemlock, 28c. a 31c.
Nails.-Cut at 3 c . a 33 sc . per lb . American clinch sell in lots, as wanted, at 5c. a 6c.; wrought foreign, $33 / 4 \mathrm{c}$. a $31 / 2 \mathrm{c}$.; American horseshoe, 14 $1 / 2$ c.

Ons.-Linseed, city made, 58c. per gallon; whale, bleached spring, 53c. a 55 c .; sperm, crude, $\$ 1.25$ a $\$ 1.28$; sperm, unbleached spring, $\$ 1.35$; lard oil, No. 1 winter, 87c, a 92c.; extra refined rosin, 30 c . a 40 c.; machinery, 50 c . a 100c.; camphene, 45 c . a 46 c .; coal, refined, from $\$ 1.12$ a $\$ 1.50$; palm oil, 10c.; linseed, 59 c ,
Resin.-Common, $\$ 1.60$ per 310 lbs. bbl. ; No. 2, \&ce., $\$ 1.70$ a $\$ 2$; No. 1, per 280 lbs. bbl., $\$ 2.25$ a $\$ 3$; white, $\$ 3.25$ a $\$ 4.50$; pale, $\$ 5.50$.

Selter plates, 5 c . a $51 / \mathrm{cc}$. per lb
Steet.-English cast, 14c. a 16c. per lb.; German, 7c. a 10c.; Amrican spring, 5 c . a $51 / \mathrm{c}$.; American blister, $4 \%$ c. a $5 \not 2 \mathrm{se}$.
Tals.-American prime, $10 \% \mathrm{c}$. to $10 \% \mathrm{c}$. per lb .
Tnv.-Banca, 323/4. a 33c.; Straits, 3214c.; plates, $\$ 7.50$ a $\$ 9.75$ T
Turpentine,-Crude, $\$ 3.62 \%$ per $380 \mathrm{lbs} . ;$ spirits, turpentine, 46 c . per gallon.
Zing.-Sh
The foreing 7xsc. a 8 c . per lb.
The
The demand for flour has been somewhat more lively during the past week.
There was a large supply of fat cattle during the week, 5,930 having been received mostly from the West, and they sold as low as $8 \frac{1}{2}$ c. a 9 c . per pound.

A circular issued from the office of the Shipping and Mercantile List, No. 58 Pine-street, contains a statement of our total cotton crop for the year ending August 31st. The erop of Sea Island was 49,039 bales against 40,566 in the previons year, and the intrease of the eatire ciop of



ISSUED FROM THE UNITED STATES PATENT OFFICE FOR THE WEEK ENDING sEpTEMBER 13, 1859.
[Reported Officially for the Soienmpio Amerioan.]
** Pamphlets giving full particulars of the mode of applying for patents, size of model required, and much other infompation use-
fal to inventors, may be had ratis by addrescing MUNN \& CO.,
Publishers of the SoIENTIFIC AMERICAN. New York. 25,375.-Henry Adams, of New York City, for an Improvement in Saddle-trees:
I claim a tree for side or ladies' saddles, constructed by connecting
the bars, $A$, by a bridge, $B$, at the point specified, and with an the bars, A A, by a bridge, B, at the point enecified, and with an
open epace, a, between the front ends of the bars, at their junction
with the horns, C , for the purpose set forth
25,376.-Geo. S. Avery, of Cross River, N. Y., for an Improvement in Ralls for Railroads:
I claim an improvement in railroad iron bars or rails by an offset or end of the rails, and inserting a key between them at the lap, and
end riveting or bolting them together, substantially as and for the pur-
poses described.
[An engraving and description of this invention will appearin our columns in the course of a few weeks.]
25,377.-O. S. Bartlett, of Romulus, N. Y., for an Improvement in Ditching-plows:
I claim the combination of the arms. D D D, brace, $H$, rods, $d$ d,
and blocks, $F$ I, substantiolly as and for the purpose set forth. and blocks, F claim the motane of attasching and ad pusting the shares. E E
E, by means of the packing blocks, 111 , in combination with the bolts E , by means of the packing blocks, 11 , in combination with
$\mathrm{b} b$, and arms, D D, substantially in the manner specified.
25, 378.-A. F. Blunk, of Indianapolis, Ind., for an Improvement in Straw-cutters:
I claim a straw cutter, constructed as shown and specified, that is to
say, with angular knives, $T$, arms, $K$, wheel, $E$, feed rollers, $B C$ C say, with angular knives, T, arms, K, wheel, E, feed rollers, B C,
Rnd D, slides P , s, spings, O , band, N, pulleys, J, and endless
belt, I , when these several parts are constructed and arranged to opberate conjointly, az and for the purposes described.
25,379.-E. K. Breckenridge, of West Meriden, Conn.,
for an Improvement in Window-sash Fasteners:
I claim the employment or use of two cams, $B B^{\prime}$, placed on a com-
mon arbor, , , with a spring, EFF applied to them and a lever, C , the whole being fitted withis a fiame, A, and
substantially as and for the purpose set forth.
[This invention consists in placing two cams on a common arbor, and connecting both by a single spring, the parts being placed in the sill of the window casing, and in such relation to the sash as to bear against its edge; one cam retaining the sash in an upward position, quently desired hight within the scope of its movement, and consean upwardosing a downward movement, and the other cam opposing position, eithevement, and thereby retaining the sash in a dored, for the purpose of raising or lowering the sash by means of a lever.]
25,380.-Z. B. Brown and M. C. Godard, of Granby,
Conn., for an Improvement in Seed-planters:
We claim the arrangement and combination of the carrier and
stamping wheels FF, cams and markerdevice II, upon the wheel F ,
the reciprocal levers, H H, seed slides or valves, D D, hoppers, B , stamping wheels F F, cams and marker de vice I I, upon the wheel F ,
the reciprocallever, H1 , seed slides or valves, D , hoppers, B ,
drill formers, J J, and covering shares, $K \mathrm{~K}$, substantially in the manner as and for the purpose described.
25,381.-J. S. Bucll, of Buffalo, N. Y., for an Improvement in Sewing Machines:
I claim, first, In combination with the stationary corrugated sur-
face, $O$ o the corrugated foot-piece, $Q$, constructed, arranged and operating therewith, as set forth. th . , , constiricted, arranged and
Second, I also claim, in combination with the needle or its thread Second, I also claim, in combination with the needle or its thread
the conical spool, X, and fuide, 1 , for causing the slack in the thread
to form the loop, and holding said loop from turning until zeized by to form the loop, and holding said loop
the looper, as set forth and explained.
25,382.-Stephen Burrows, of Lima, Wis., for an Improvement in Seed-drills:
I claim the emplovment of a grooved ring, B C, fitted on the axle ed tube, D E, leading, from the hopper into the groove of the ring, sub.

25,383. - Wm. Campbell, of Waterloo, Pa., for an Improved Churn:
I claim the perforated and hinged floats, $F$, as an Inprovement in
the construction of dasher-heads for churns.
25,384. -Rosanna Carpenter, of Medford, Mass., for an
Improvement in Extracts of Fruits:
I clain, as a new article of manufacture, the above-described ex-
tract of fruit, prepared in the manner substantially as specified.
25,385.-R. P. Clark, of Johnstown, N. Y., for an Improvement in Handmills for Grinding Apples, \&c. I claim the described improved handmill for household use, in re-
ducing apples, potatoes, and other fruits and roots to pomace; the teeth, el, of the combined cylinder, and adjustable yielding, con-
cave being formed and arranged in the particular manner set forth. 25, 386.-Barnes Clayten, of Philadelphia, Pa., for Improved Fastenings for Shirt Studs:
I claim the hollow sliding case, $A$, and spring, $B$, , $n$ n combination
with the tie, or post, $E$, and the bar, $D$, the same being arranged to operate together, sul
forth and described.
25,387.-P. S. Clinger, of Conestoga Center, Pa., for an Improvement in Wire Fences:
I claim the comblnation of the pin, $S$, with the ratchet. $T$, in con-
nection with the mortised posts and the hooked wires, $H$, when nection with the mortised posts, and the hooked wires, H W W, when
these several parts are arranged substantially as desoribed for the
purpose set forth. purpose set forth.
25,388.-T. T. and H. W. S. Collier, of Lavernia,
Texas, for an Improvement in Cotton-seed Plantess: We claim the arrangement of the distributor, $\mathbf{E}$, and the stirrer, H , constructed as described, to operate in combination with
ing wheel, I , substantially as and for the purpose set forth.
ing principal object of this invention is to obv9ate the difficulty of distributing cotion-seeds evenis from a hopper For this purpose

tributor and forces the seed into the seed cells. The seed cells are formed by cutting ratchet teeth into the face of the revolving cylinder called the distributor, and receive the seed from the hopper and carry it down into the discharging tube which passes down through the hollow share of the planter. A bro
25,389.-Henry W. Colvin, of Pendleton county, Ky.
for an Improvement in Sights for Fire-arms:
I claim the semi-circular form of the fore-sight with its range-piece
or bead and shades, and triangular form of the hind-eight with its noede or or rane a
nurpose set forth.
25,390.-George Cook, of Paris, Ill., for an Improvement in Rotary Harrows:
I claim the arrangement of the teeth, d, placed eccentrically on
triangular frames, E , which rotate on oblique pivots, c , substantially as and for the purposese specified.
[This invention consists in arranging the teeth of a rotary harrow on triangular frames which revolve on oblique pins, said teeth to be set on lines which do not pass through the centers of the frames, so hatnhey clear themselves more readily and cause the frames to re ,
25,391.-Solomon Crowell, Jr., of Palmyra, N. Y. for an Improvement in Coffee-pots:
I claim the combination of the perforated diffusing-cham' er $\mathbf{C}$,
having atight conical boottom, f , with the concentric perforated digester; D, whereby the coffee is exposed in a thin layerer of nearly uni pester, Dh, whereby the coffee is exp ex
form thicknes, to the water
ond

25,392.-Henry Davis, of Baltimore, Md., for an Improvement in Brakes for Railroad-cars:
I caim increasing the frictional action of the car-brakes upon the peripheries oct car-wheels, by the introduction of sand or its equiva-
lent, between the frictional surfuces at the time that the brakes are

25,393,-David Decker, of New York City, for an Im
provement in Pianoforte Actions:

 hrough the said regulating screw, whether constructed in this precise
nananer ,or in an enuivaleat, for the purpose decoribed
secen quivalent for the purpose ef in combination with the tongue, pin, or
 ng or sticking of said repeating lever and liftings jack, jack and repeating
 being thus conveniently placed for regulating.
25,394.-Sylvanus A. Denio, of Boston, Mass., for an
Improved Prison Lock:
Cchaim the lock or part, b, with its parts, $c i$ e and $k$, arranged with

 the purpose set forth
25,395.-Simeon Dodge, Jr. and Benjamin Potter, Jr., of Marblehead, Mass., for an Improved Heel for Boots and Shoes:
We claim a a a newa article of manufacture, a heel having a concave
seat, and a flat tread, with its rises united by cement, as set forth.
25,396. -Thomas Dougherty, of Macon, Ga., for an Improvement in Switch-stand for Railroads:
I claim the combination of eccentric, B, with the pin, $\mathbf{C}$, through
lever, $D$, to bar, E, for the purpose of locking and unlocking the main

25,397.-Eugene Duchamp, of St. Martinsville, La.,
for an Improved Faucet:
I claim the arrangement and combination of the oblique slo, $G$, stem, c, will rise and fall with a spiral or screw movement, thus en-
25,398.-Eugene Duchamp, of St. Martinsville, La., for an Improved Filter:
Tclain the employment of fine spun glass arranged in the manncr and for the purposese set forth, in combination with the reservoir, $G$,
floating valve, $f$, chamber, E , and pure water chamber, $F$, essentially foating valve, , , chamber, E, and pure wa.
in the manner represented and described.
25,399.-Eugene Duchamp, of St. Martinsville, La.,
for an Improvement in Apparatus for Heating Water:
I claim the combination and arrangement with the false bottom, $\mathbf{G}$,
and tank
$F$, of of the erforate F, smoke-pipe, $H$, as and for the purpose shown and described.
[This invention consists in placing within a cylinder or outer casing perforated at the top and bottom, a smaller cylinder, which latter ing a false bottom, so that when the water, clothes and soap are put around the boiler in the tub, and a fire made in the inner chamber, a constant rotary current of the water in the tub will be obtained, and the dirt carried to the bottom of the tub.]
25, 400.-John Fasig, of West Salem, Ohio, for an Im proved Mop-head:
I claim the herein-named construction of a mop-head, consisting
of the piece, $B$, with the slot, $\mathbf{C}$, and hole,, , in combination with the
rod, $E$, and of the piece,, ,
rod, $E$, and $n$ nes, a, $e$, screw and nut, $G$, when the several parts
25,401.-Jacob Fassnacht, of New Milltown, Pa., for an Improvement in Harness:
I claim the device of combining the hip-strap, and breech-band in
ne continuous piece, A, for each half, united at B B, to form the
breeching, as set forth,
25,402.-William R. Fee, of Cincinnati, Ohio, for an
Improvement in Hydraulic Oil Presses: I claim, first, The peculiar construction of the dies, $D^{\prime}$, and fol-
lowers, D , having the grooves, $G$, and conduits, ${ }^{\prime}$, and also the oil
passages, d , to facilitate the expression of oill, substantially as set
passages,
fecond, I claim the solid truss, $K$, when made a part of the press,
and worked by means of the rack and pinion, substantially as set forth
second, I claim the solid truss, K, when made a part of the press,
and worked by mens of the rack and pinion, substantially as set forth
and for the purposes described.
Third, I claim the hinged hoop, F, for charging the press, substan-
tially as set forth.
25,403.-J. H. Frampton, of Hopewell, Ohio, for an
Improvement in Cultivators:
I claim the adjustable share standards, G G, attached to the paral-
bars, E E', the whole being combined and arranged substantially as
and for the purpose set forth.
[This invention consists in a novel way of attaching the shares to the plow whereby they may be readily adjusted nearer together or further apart, or higher or lower, as the nature of the work may require.]

25,404.-Daniel K. France, of Congress, Ohio, for an Improved Churn Dash
I claim the metallic strips, B, B, atached to the convex surface of the
slats, by slota sand screws,
purpose substant ond 25,405.-C. L. Gilpatrick, of Saco, Manne, for an Improved Churn:
I claim the combination of the crank-shaft, $D$, and staff, B B, with
he top, $\mathrm{A}^{\prime}$, when said top is provided with boxes, F , in which play sidesthro ubh which the staff pass, the same being arranged and 25,406.-Elias J. Hale, of Foxcroft, Maine, for an Improvement in Lamp Chimneys:
I claim contracting the chimney above the flame, and admitting at
or near the same point, a current of air, in the manner and for the or near the same point, a current
purpose substantially as set forth.
25, 407.-Robert Hale, of Roxbury, Mass., for an Im-
proved Exhaust-pipe for Steam-engines:
 opening, B, and a ateam pipe, C, in combination with a lip,, , opera-
ting in the manner set forth, for the purpose specified. 25,408.-William Hamilton, of
for an Improved Excavator:
First, In combination with an excarator frame constructed as de-
scribed having the isidetimbers braced in front only, 工claim four
wheels, when arran

 Second, The conbination of an excavator witha a frame having the
rear ends of each of the side timbers bifurcated for the reception or


 excavat
scribed.
25,409.-Stephen P. Hart of Boston, Mass., for an Im-
provement in Barrel Syringes:
daim the spring, ${ }^{\text {a }}$ as applied to the syringe, operating in the nanner substantially as set forth.
25,410.-Malachi B. Hassler, of Columbia City, Ind., for an Improved Churn:
I claim the arrangemint of the hinged curved leaf, g , in combina-
tion with the wings fi, onstructed and arranged to operate sub.
stantiall

25,411.-R. K. Hawley, of Baltimore, Md., for an Improved Construction of Segmental Circular Saws: I claim a segmental veneer saw, the blades of which are formed,
hung and clamped in the manner described. 25,412.-David Hinman, of Berea, Ohio, for an Improvement in Grinding the Teeth of Mowers and Reapers:
 25,413.-W. W. Hollman, of Eddyville, Ky., for an Improved Mangle:
I claim the combination of the levers, $\mathrm{K} \mathrm{J}^{\prime} \mathrm{K}^{\prime} \mathrm{J}^{\prime}$, with one of the
rolls, and balancing lever, H
$\mathrm{H}^{\prime}$, substantially as and for the purpose 25,414.-W. H. Hortsmann, of Brooklyn, N. Y., for an Improved Mode of Manufacturing Telegraph Cables:
I claim constructing the cable by the apparatus, substantially as
depscribed. oonsisting of the reservoirs, wrapping apparatus, \&c., or
 fier it has passed all the other apparatus, and before it has entered
fied. also claim the, manufacturing of the cable, substantially in the
 all the chances forinjury and imperfections arising herefrom, growing
out of stowing and handling the cable after it has been made, as unt of stowing a and hand
heret of ore has been dona.
25,415.-A. H. Inskeep, of Middleburg, Ohio, for an Improvement in Harvesting Machines:
I claim, first, The arrangement of the revolving spiral cone-shaped
cutter or gatherer with the base of the cone in front, to gather up and ra The grain back to either station ary or reciprocaling cutters, sub-


25,416.-W. D. Johnson, of Raleigh, N. C., for an Improvement in Cultivators:
I claim the bars, A A, curved so as to form handles at one end, and raft bar, C , and guide or retaining bar, D , the bedy of thene frame the the A A B bing connected or recured together by the collaro or loop B B in
combination wit the
aud for the purpose het fouthe soraper, $F$, substantially as described and for the purpose set forth.
[This invention consin
[This invention consists in a pecuiuar manner of constructing the frame of the implement, whereby the same may be readily adapted derice obtained.]
drops, and at the same time a very economical
25,417.-W. D. Johnson, of Raleigh, N. C., for an Im-
provement in Seeding-machines:
I claim the arrangement of two distributing slides, $\mathbf{E F}$ F, with the
ooiections, $H \mathrm{H}$, on the wheels, C C, and two or more comprtment
 justabl
forth.
rThe
[The object of this invention is to obtain a seeding-machine capable f planting two different kinds of seed in alternate hills, and also drop herewith a fertilizing material in such a manner that a stratum of inating principle of the latter will not be injured by direct contact with the former. The invention also has for its object the ready adjustment of a gage roller to vary the depth of the furrow according to the depth the seed may require to be planted.]
5,418.-Morris L. Keen, of Rogers' Ford, Pa., for an
Improvement in Boilers for Making Paper Pulp from Wood:
I claim a boiler for boiling, under pressure, wood and ligneous materials for making paperip pulp constructed with an expansion
clamber, stirrers and discharge valve or cock, arranged for the pur-
poses and in the manner sulbstantially as stated. 25,419.-Asa M. Keith, of Kosciusko, Miss., for an Improvement in Cultivators:
I claim the arrangement of the double scraper, the hoe drum and
the hillers or coverers, in their relation to each other and to the parts the hillers or coverers, in their relation to each other and to the parts
of the frame to which they are attached, as and for the purposes set
forth.

25,420.-John C. Kimball, of New Haven, Ccan., for an Improvement in Movable Tops for Carriages: I claim so constructing the standards or supports of a ptand ing car-
and standards or supports may be readiy removed, hene the whore is poses set forth,
Second, Ilaim the combination of the standards with the body
Ind
 serve the purpose intended, substantially as described.
25,421. -Nelson J. Knapp, of Chicago, Ill., for an Im-
provement in Locomotive Lamps:
I claim the combination of the eelispoodal and paraboloidal reflec-
ors, ED, and burner, G arranged substantially as and for the pur-
25, 422.-Jesse Ladd, of Holderness, N. H., for an Improved Machine for Arranging Pegs:
I claim a machine or combiration, consisting of the following 1. The grooved cylinder, D, furnished with a hopper or other roper means of supplying it with pegg.
2. The eaiding reeceiver, H.
3. One or more advancers,
and the operative mechanism



8. Mechanism for adyancing the pegs through the said carrier.
Ialso claim, in combination with the said machine or 1 ts
and grooned ccllinder, an anitator, E, Er means of shaking or agitating
the mass of pegs in the hopper, or its conductor.
I alaon claim, in combination with the said marchine, or its receiving
pout, $M$, the serrated bar, $P$, operated as described, or mechanism for insuring the descent of the pegs within the receiving spout, as spe
ified I I liso claim, in combination with the said machine, or with the re-
ceiving spout and peg-carrier thereof, the device or part, U , made to ceiving spout and peg-carrier thereor, the device or part, U, made th
operate in manner and my means substatialy as specified
I also claim, tn combination with the said machine, or with the

 he finger, $\mathrm{O}^{\prime}$, or equivalent to to be operated in
25,423.-Augustus Lafever, of Battlecreek, Mich., for an Improved Board-measurer:
I claim, frist, The employment or use of the cone gears, E J, and slinding pinions, , Ft, in inonnection with an entloes toothed or serand indexes and with or without the arm, C and lever, D, substan-
tially as and for the porpose set forth.
Second, The arrangement of the vielding frames $\mathbf{H}$, with the inion, , and cone gear, J, respectively attachad tole levers, $b^{\text {with }} c^{\prime} g^{\prime} \mathrm{h}^{\prime}$, [The object of this invention is to obtain a portable instrument or device by which the aggregate number of square feet, in a lot of lumber composed of pieces of varying lengths and thicknesses, may the pieces in the direction of their width, the instrument being capable of adjustment to suit the length and thicknesses of the pieces.] 25,424.-John S. Lash, of Carlisle, Pa., for an Improved Dumping Cart:

forth. frurthe claim the rod, H , provided with the spring, r , and con-
nected to the slidng or or pres sure bar I, wrovided with

[This invention consists in applying to an ordinary dumping-cart a segment rack and pinion, spring and pressure bar, in such a manner
that the cart body may be readily tilted by the attendant and its that the cart body may be readily tilted by the attendant and its
load dumped, and the body made to right itsclf or assume its original position automatically by the forward movement of the cart.]
25,425 . -Wm. Lees, of Germantown, Ohio, for an Im-

## provement in Corn-planters :

I claim the cylinders, d do in combination with the hoppers, ${ }^{c}$ b.
with reference to the feed bar, D , arranged to operate Eubstantially
25,426.-Ferdinand C. Lighte, of New York City, for an Improvement in Pianofortes:
I claim, first, The crystal reverberator. G, of glass, or other material, applied below or at the back of the soumd-board, in combination
with openings, a a, therein substantially as and for the purpose described. The insulators, ff, applied between the iron frame or plate,
S, and the wrest plank and wooden blocking of the instrument, in such manner that the said frame or platew will bear upon the plank and
blocking only at few points, substantially as and for the purpose deblocking
soribed.
25,427.-Geo. Lindsey and Wm. Cameron, of Peters-
burgh, Va., for an Improvement in Tobacco Presses:
We claim a portable hydraulic jack, or other powerful press, so con--
structed as to be readily applied to an ordin nary, or to a eeries of or-


25,428.-John H. Lyon, of New York City, for an Improved Lock and Detector:
I claim combining with a padlock, or any lock provided with a
shackle, a supplemeutal shackle, arranged with a lead or soft metal
 admitting of being released only by the severing of said tube, which
thereby servesias adetector, substantiall as described.
Ifurther
 rendered extremely simple and the
out or produced at a moderate cost.
25,429.-Murdick Lytle, of Alleghany, Pa., for an Improved Steering Apparatus for Barges in Rivers:

 25,430.-Jacob Maize, of Wooster, Ohio, for an Improvement in Seeding-machines:


25,431.-W. A. McDonald, of Mott Haven, N. Y., for
an Improved Dovetailing Machine:
I claim, fixst, The employment or use of spiral saw-cutters, G G*


[An engraving of this machine may be found on page 129 of the present volume of the Scientiric Amprican.]
25,432.-Edmund Miller and Benjamin Miller, of Rising Sun, Ind., for an Improvement in Cultivators:
We claim the combined arrangement of the guard $H$, elevated and bracket EF, operating in ocnnection with a shovel plow, in the
25,433.-Henry Miller, of Grafton, Va., for an Improved Shingle Machine:
I claim the manner of tilting the bed, as shown, to wit, by means of


 [This invention relates to an improvement in that class of shingle machines in which the bolt, in order to have the shingles cut in taper form, is adjusted obliquely to the cutting plane of the saw by means of a tilting bed. The object of the invention is to simplify the mechanism employed for such purpose, and to graduate with facility the length of the tilting movement or the degree of inclination of the bed, so as to give the shingles a greater or less degree of taper as may be desired.]
25,434.-Jonathan H. Mitchell, of Germantown, Tenn., for an Improvement in Cotton-scrapers:

arranged and operating aubstantially as and for the purpose set
forth,
25,435.-William Morrison, of Carlisle, Pa., for an Improvement in Corn-planters:
I claim a corn-planter constructed substantially as shown and spe
 in these several parts a pre constructed and arran
25,436.-William O'Ncill, of Pine Level, Ala., for an Improvement in Plows:
I claim the lapping land-sides of the plows and the bar A, Attached
to the beam as specife., in ocmbination with the botts, nuts and
brace braces described, whereby they may be formed at pleasure into a
double or hill-side plow, as set forth.

25,437.-Wm. O'Neill, of Pine Level, Ala., for an Improvement in Plows:
I claim the arrangement of the adjustable mold-boards, $M M^{\prime}$, at-
tached to the share by bolts, a , and constructed as described, with

25,438.-Geo. T. Parkhurst, of Baltimore, Md., for an Improvement in Lamps:
 fat wick tnbes, and the combination of the abore parts
or dome, made or operatin g substantially as deseribed.
25,439.-Stephen B. Peet, of New York City, for an Improvement in Carriage Springs:
It claim a compound spring, composed of a combination of an ellip-
25,440.-John G. Perry, of Kingston, R. I., for an Im-
proved Sausage-stuffer:
I claim combining the cylinders, c , having a spiral cavity or cavi-
ties with the follower, D , substantially as described for the purposes
set forth.
25,441.-Orris Pier, of Ludlow, Vt., for an Improvement in Horse-rakes:

[The object of this invention is to obtain a rake that may be readily raised and lowered for the purpose of having its load discharged, and also readily adjusted, so that the ends of the teeth may be at the desired hight from the surface of the ground, and the rake be enabled to gather or rake all the hay without having its teeth catch into the ground, a contingency which frequently occurs in using the wire-
tooth rake, greatly Increasing their draught and the wear and tear of tooth rake, great the
25,442.-Daniel R. Prindle, of Bethany, N. Y., for an Improvement in Boilers and Steamers:
I claim the so turning or forming the flange of the upper section so
ant it will contain water to prevent the fire from burnugg the packing that it will contain water to prevent the fire from
beneath the flanges, substantially as described.
25,443.-S. G. Randall, of New Braintree, Mass., for an Improvement in Seeding-machines:
I claim the arrangement and combination of the series of plate
wheels, D
D , seed-boxes, A , and horizotal bar, B , substantially as

[This invention consists in the employment or use of a novel har rowing device applied to and combined with a seed-box and seed-disributor, whereby a very simple and efficient implement is obtained for the desired purpose, and that may be used on rough ground with
out being obstructed in its work or liable to be broken or injured.] 25,444.-J. A. Safford, of Winchester, Mass., and John
W. Chase, of North Weare, N. H., for an Im provement in Skiving Machines.
We claim, firstl, Han Hing the gage roll, $K$, in vibrating frames, $I$



25,445.-Francis C. Schaffer, of Brooklyn, N. Y., for I an Improvement in Carriage-tops:


[This invention cons ists in arranging the side curtains with hoo s ,
tending from one side to the other, so that the curtains can be made when raised, by the friction of the hooks on the suides, and more par begin to rise the curve which they are forced to turn as soon as suy manner that they can be raised and supported in such a position that they protect the persons in the carriage against the direct influence of the rays of the sun, without excluding the air.]
25,446.-Thaddeus S. Scoville, of Rochester, N. Y., for an Improved Spirit Level:
I claim employing a single with the scat cell or cistern of spirits, or A, in such a manner that the surf ace line, of the and rectanguid shall in stock,
both the horizontal and perpendicular with the intermediate both the horizontal and perpendicular, with the intermediate degrees,
substantially in the manner and for the purposes set forth
25,447.-Harvey Sloan, of Franklin, Ind., for an Improvement in Seeding-machines
I claim, first, The arrangement of shanks, I I', drag-bars, K K ,
levers, $J{ }^{\prime}$, hat, $G$, rest, H , and support, h, the same being com-
bined and operating substantially as and and for the purpose speci-
nied. and operating substantially as and and for the purpose speci-
Second, In connection with the
Second, In connection with the subject of the first claim, the ar-
angement of rollers, $B B$, seed-boxes, $C$ and $D$, slides a and $d d d$, when the same are constructed substantially as and for the purpose pecified.
25,448.-C. A. Smith, of Piermont, N. Y., for an Improvement in Railroad-car Seats:
I claim, first, The arrangement of the back and bottom of a car position both parts move together on the same pivot, a, on which the
back moves, independent of the bottom, when the seat is reversed substantially as specified. ack, D , when the same are arranged and combined as described.
[This is an invention for inclining car seats at night, to adapt them [This is an in the seat is so arranged that the bottom and back move gether, on the same pivot, when it is desired to give the seat more less inclination, and that the back moves independently of the botThe seat is held at the desired inclination by the spring-catch and The seat is held at the desired inclination by the spring-catch and
notched arc, the operation of which is so simple that it can be easily notched arc, the operation of which is so simple that it can be easily
understood by any person, even "though entirely unacquainted with mechanical apparatus.]
25,449.-P. M. Smith and T. T. Collier, of Lavernia,
Texas, for an Improvement in Cotton-seed Plant-
ers:
We claim the arrangement and combination of the wheels, $\mathbf{B}$,
axle, crank, a, pulley, $H$, slide, D , agitatat, F , fender-bar, S, plow-
share, G , and scruper, h , substantially as and for the purpose de-
scribed.
[This invention consists in arranging, over a reciprocating slide, an tator, which serves to facilitate the discharge of the seed from the perated from a pulley on the same shaft which gives motion to the slide, so that both move simultaneously.]
25,450.-James C. R. Steirly, of Brooklyn, N. Y., for an Improved Thimble:
I claim the combination of the thimble and cutter in the manner
nd for the purpose set forth.
25,451.-David Stuart, of Philadelphia, Pa., for an Improvement in Cooking-stoves:
I claim combining with the hollow cross-piece, b , the distributor, a
constructed and arranged as set forth.
25,452.-J. H. Swan, of New York City, for an Improved Folding Chair:
$\mathbf{T} \mathbf{G}$, substantially as shown, so that the back, $E$, seat, $F$, and arms, Gied, substantially as shown, so that the back and seat, when occuseat and back for the purpose specified.
Second, In combination with the back, seat, F, and arms, $G$ G,
the curved legs, A A B $\mathbf{B}$, when the whote are arranged substantially
25,453.-James Taylor, of Rushville, Ill., for an Im-
proved Churn:
I claim the peculiar construction and arrangement of perforated brakes and auxdiary reflectors, in combination with a dasher, having
its blades flattened out gradually from near the shaft to their ends, substantially as and for the purposes set forth.
[This invention consistsin arranging, on the side of the tub or bar el in which the dasher operates, a series of brakes, which are contructed of alternately wider and narrower ledges; and the wide rakes are cut out close to the side of the barrel, so that the cream or milk, as it is agitated by the dasher, is broke towards the sides of he barrel by the same, while the narrower brakes are so arranged that the current of milk or cream is broke from these sides, whereby the cream is not only reduced to butter in a very short time, but the churn can also be operated quite casily and with little exertion.]
25,454.-James S. Taylor, of Danbury, Conn., for an
Improvement in Machinery in Forming Hat Bodies:
I claim the combination of the two perforated cones and exhaust ort one picker and fiternately shifted from the tip of one cone across n to the tip of the other in such a manne
proportions in forming a perfect hat body
25,455. -George W. Tolhurst, of Liverpool, Ohio, for an Improved Washing-machine:
I claim the inside bottom box, B, constructed air-tight, so that when
the pressure of the upper rubber is removed it will float, and expose the clothes to be handled.
5,456.-M. L. Tourtelett, of Neshonoc, Wis., for an Improvement in Seeding-machines:
I claim the combination and arrangement of the levers, $G H$, con-
neted by the traverse rod,, , the cam, $I$, the slides, $F F$ and $L$, for ected by the traverse rod, e, the cam,, $\mathbf{I}$,
oint operation for the purpose set forth.
[This invention relates to an improvement in that class of seedingachines which are designed for planting various kinds of seeds, and ether in hills, drills or broadcast. The invention consists in a novel device or attachment, whereby the seed may be planted at a greater or less depth, and, at the same time, leave the earth pressed firmly on it, and the soil left with a smooth surface. The invention also consists in a peculiar arrangement of hoppers and mechanism for perating the seed-distributing devices, whereby either hopper may 5, 457-Louis S. Ullman of Nashville, Tenn for an

Improved Hygrometer:
I claim the combination of the capsule and naturally spiral tail-like
appendage of either of the plants specified, with an index and dial, or heir equivalents, substantially as describ, to anstitut anyarro [Thi
This is 2 most novel invention, and we shall present our readers

25,458.--John Van Horne, of Magnolia, Ill., for an Improvement in Machine for Weighing Grain, \&c.
 grooveg, P P, so as to weigh diff erent weights or dratte,
combined for the purposes set forth as above described.
25,459.-Thomas J. Wallace, of Cameron, IIl., for an Improvement in Machines in Raking and Loading Hay
I claim, first, A hay-raker and loader, all the parts of which are
Onstructed, arranged and combined together for joint operation subb-
 with the part, A of the n
for the purposes set forth.
25,460.-Hamlin Whitmore and David M. Smith, of Springfield, Vt., for an Improved Carpenter's Re Rule :
We claim the spiral springs, $h$ h, applied to the pintle, $e$ of the rovided with notches, $f$, and projections, $g$,as and for the purpose set [This invention relates to an improvement in the joints of the rulec whereby the same are prevented from casually opening and closing, a result due to the wear occasioned by a very little use. The invention consists in having spiral springs fitted on the pintles of the joints, and bearing against elastic plates at the central portion of the joints, said plate8 being notched and provided with projections, so as to form snaps or catches, to effect the desired object.]
24,461.-Charles Whitaker, of Davenport, Iowa, for an
Improvement in Corn-planters:
I clatm the arran gement of the seed-boxes or receptacles, $F$, slides ighis invention relates to an m , as and and for the purpose set forth. lanters in which the corn is distributed from the peripheries of the wheels. The invention consists in a peculiar distributing-device ar ranged in connection with a seed recentacle within each wheel whereby a very simple, economical and efficient machine is obtained for the purpose intended.]
25,462 .-J. S. Williams, of St. Louis, Mo., for an Improvement in Grates:
I ceaim the combination of the stove-grate, A, having register
plates, DD , and valves, HH $H$, which adnit unheated air from the
 place, C. When the latter is separated from the flue above by a sim-
ple fire-bourd, b , in the manner and for the purposes described. 25,463.-W. B. Williams, of Warrenton, N. C., for an Improvement in Plows:

 $25,464 .-W$. B. Williams, of Warrenton, N. C., for an Improvement in Plows:
I claim the combination of standards, S , plate, P , and oblique
wings, W , substantially as and for the purpose set
forth, with 25,465.-Albert Broughton, of Malone, N. Y. (assignor to himself and A. Lindsay, of same place), for an to himself and A. Lindsay, of same place), for an
Improvement in Converting Rotary into ReciprocaImprovement in Convert
ting Rectilinear Motion:

 [This invention consists in combining two opposite toothed racks ith a single interposed rotary pinion, for the purpose of converting otary :nto reciprocating rectilnear motion, by so applying the shaf the pin, by aring and two inings pin-is medo to with the by its revolution, to give the carriage or device to which the said racks are attached a movement back and forth]
25, 466.-J. H. Gould, of Alliance, Ohio (assignor to
himself and E. A. Hartshorn, of Mount Union,
Ohio), for an Improved Cover for Stove-plates:
I claim the self-erecting handle, A, in combination with weights,
c, arranged essentially as and for the purpotes set forth.
[This invention consists in the employment of a wire handle, in ring the boiler- a common circular or other-shaped hid used for will always keep an erect position, and, at the same time, is not liable to be bent or broken off, nor will it bo in the way in using the top of the tove.]
467.-James A. Hamer, of Reading, Pa. (assignor
to himself and Norris Maris, of Kimberton, Pa.),
for an Improvement in Brick Machines:
I claim, first, The combination of the tlades, $\mathrm{I}^{\prime}$, and rods, $\mathrm{L}^{\prime}$, with the valves, $J^{\prime}$, and spiral, $K^{\prime}$, constructed, arranged and operating , , in relation to each other, substantially as and for the purposes set forth.
Second, The combination of the adjustable cover, $D$, with spiral ure upon the clay in the purpose of re lieve as set forth.
Third, The combination of the
Third, The combination of the hinged smoothing-piece, $Q$, with
he hinged vertically-reciprocating piece, $P$, as and for the purposes set forth.
Fourth
nd tube, $S$, as and for the purposes set forp. 25,468.-S. P. La Due, of Rockford, Iowa (assignor to Thomas S. La Due, of same place), for an Improvement in Calendar Clocks:
$\mathrm{D}_{\mathrm{E}}$ and G , and the ring, M and $Q$, the faces of which are marked with the proper figures and letters, ,o that they indicate the seconds,
the minutes, the hours, and the days of the week and month, substantially in the manner specified, in such a manner that it serves
Second, Arranging the wheel, $G$, in
the double purpose of actuating the bell-hammer and to indicate the the double purpose of actuating the bell-hammer and to indicate the
hours of the day substantially in the manner described.
Third, Placing the figures and dials on the faces of the drivingwheels to indicate the seconds and minutes by a continnous motion;
also, to indiciate the hours by a continuous or intermittent motion subalso, to indicate the hours by a conti.
stantially in the manner described.
[This invention consists in arranging the wheels in the clock with gures and letters, in such a manner that the same, by their relative or towards a stationary point, indicate the seconds the minutes, the hours, the days of the week, and those of the month, without the aid of movable hands or indexes, and these whicels therefore serve, at the same time, as driving parts of the clock, and as dials and hands, those wheels being dispensed with which usually serve to operate the dinls or hands; and those wheels which indicate the hours, the drys of the
week, and the days of the month, are so arranged that they have an intermittent motion, keeping the respective tigures or letters in viow during the whole hour or during the whole of the day, the changes taking place almost instantaneously with the wheels which indicate the days of the week and month, and at shorter or longer intervals, according to the hour which the clock has to strike, with that whee which indicates the hours, which latter, however, may be made so ar to have a continuous motion. And this invention also conner that it serves the double purpose of indicating the time and actuating the bell-hammer.]
25,469.-Joseph B. Okey, of Indianapolis, Ind. (as-
signor to himself and Wm. H. Hendrick, of same
signor to himself for an Improvement in Straw-cutters: I claim, frist, The combination of sliding,-bar, B, when constructed
asset forth, with yoke, C, and vibrating bottom, D ; andasset forth, with yoke, C, and vibrating bottom, $\mathbf{D}$; and-
Second, The conbination of cams, Fo and $\mathcal{G}$, with lever,
constructed and used ane described, all operating substantially is and constructed and used as desc
for the purposes mentioned.
25,470. - Joseph Rider, of Newark, Ohio (assignor to himself and E. Remington \& Sons, of Ilion, N. Y.), for an Improvement in Breech-loading Fire-arms: I claim the combination of the movable breech-pin, $F$, and the cap-
tube, E applied to a pistol substantially as deecribed. And, In combination with a hammer of the form described, I claim
the arangement of the main-spring and trigger, felativelv to each
ther other, to the hammer, and to the stock and barrel, substantially as de-
scribed. 25,471.-Joseph C. Silvey, of New Orleans, La. (as-
signor to Thomas J. Dobyns, of St. Helena Parish,
La.), for an Improvement in Sewing-machines: I claim, first, Operating the needle-arm, by means of a grooved ec-
centric $G$, and a pin, b, on the needle-arm, arranged relatively to
each other to operate in the manner described and illustrated. centric, $G$, and a pin, b, on the needle-arm, arranged retatively to
each other to operate in the manner described and
Second, The construction or arrangement of the portion of the Second, The construction or arrangement of the portion of the
feed- plate ortable, $\mathbf{B}$, through which the needle and the foeding-dog
work, to form an inclined plane relatively to the direction of the feed-plate or table, an, inclined plane rellativelyt to the direction of the
work, to form the
movement of the feeding-dog, substantially as described and illustrated. for the purpose set forth.
Third, The combination of springs, R T and M, applied in the
manner described, to effect the tightening of the stitch, and othermanner described, to effect the tightening of the stitch, and other-
wise control the thread hetween the perforating-needle and its spool
by the automatic operation explained.
[This invention consists, firstly, in a certain mode of applying an eccentric, in combination with the needle-arm, for the purpose of driving the needle, whereby the perforating needle is caused to have a slower motion in perforating the cloth, and a quicker motion on its return to take up the stitch, and to have its motion almost suspended for a considerable time while in the cloth. It consists, secondly, in the construction or arrangement of that portion of the surface of the feed-table which surrounds a feeding-dog working through the said in such manner as to form an inclined plane or occupy an inclined position relativcly to the plane or direction of the movement of the roughened surface or the feeding-dog, whereby the said dog is made to operate effectually with only a simple reciprocating motion. It consists, thirnly, in a novel combination of springs attached to the needle-arm, for the purpose of controling the thread between the eye of the perforating needle and the spool from which the thread is supphied to the said ncede, and for apolating the tigh ne of the said thread in
25,472.-Seth D. Tripp, of Stoneham, Mass. (assignor
to himself and Luther Hill, of same place), for an
Improvement in Apparatus for Feeding Pegs: I claim, frrst, Winding up the blank or strip of pegs with the rib-
bon, $f$, go that, as tho ribbon is wound off by the movement of the mabon, $f$, so that, as the ribbon is wound off by the movement of the ma-
chine, the blank will be fed up in the manner substantially as set
forth. forth.
focon
Sen
Second, $I$ claim langing the spool, $I$, on a vibrating arm, $F$, so that
the spol and trough, $M$, may follow' the motions of the swinging.gate the spool and trough, $M$, may follow the motions of the swinging-gate
or part of the pegging-machine, to which the trough, $M$, is attached. 25,473.--Andrew Turnbull, of West Meriden, Conn. (assignor to himself and James D. Frary, of Mer
den, Conn.), for an Improvement in Scales:
I claim, first, Tne combination of the beam-lever, $F$, with scoop
platform, C attached, with the spring K, rack, J, adjustable or fixed
pinion, e, with index or indexes, $N$ atta ched to its arbor, d, and travplatiorm, e, attached, with the spring, $K$, rack, J, adjustable or fixed
pinin, $e$, with index or indexes, $N$ atta ched toits arbor d, and trav-
ersingover a graduated plate or plates, $M$, substantially as and for ersing over a graduate
the purpose set forth.
Second, I claim attac
the purpose set forth.
Second, I claim attaching or suspending loosely the rack, $J$, to the
beam-lever, F, br means of a pivot, f, and having a spring, , acting
on asid rack in order to keep the same in gear with the pinion, $e$, for
the purpose set forth. the purpose set forth.
Third, $I$ claim ataching the lower end of the spring, $K$, to the
traverse bar, $h$, hy means of the screw, $L$, and nut, $i$ in order to regThird, I claim attaching the lower, end of the spring, K, to the
traverse bar,, , , by means of the crew,
ulate and nut, ine in order to reg. tially as and for the purpose set forth
Fourth, I claim, in compinatlon with the beam-lever, $F$, spring, $K$,
and indexes, $N$, connected with the beam-lever, the stop, 3 , on the Fourth, I claim, in combination wit
and indexes, N, connected with the
arbor, B, for the purposes specified.
25, 474.-O. H. Waters, of Baltimore, Md. (assignor to Alfred Hunter, of Washington, D. C.), for an Improved Clothes-dryer:
I claim the combination and arrangement of the adjustable grooved
post, $\mathbf{B}$, its radial arns, F, and box, H , with box,
and protector, K , the whole being constructed in the manner ander, D , and protector, K , the
25,475. - Lewis White, of Hartford, Conn., (assignor to himself and Daniel McLaughlin, of New York City) for an Improvement in Lamps:
I claim the applica tion and arrangement of the operating gears.
When placed in the manner and for the purpose herein descibed.
Ialso claim the movable flaps, $B$ B, in the manner and for the I also claim the movable flaps, B B, in the manner and for the pur-

RE-ISSUES.
ment in Lamps. Patented Aus., for an Improve$\underset{\text { ment in }}{\text { men }}$ Lamps. Patented August 3, 1858 I claim, first, The perforated plate or air-distributor, C, or its equi-
valent, as shown in Fi. 2 , for the purpose of regulating the ela stic
force of the air so that it mav be presented event va lent, as shown in Ffg. 2 , for the purpose of regulating the ea stic
force of the air so that it mar be presented evenly to the frame (when
applied to fat wick lampa), it being placed horizontal. applied to flat wick lamps), it being placed horizontal.
Second, I claim the perforations h, in the lower part of the cap,
D, as shown in Fis. 1 , in combination with the perforated or air-distilhuting nlate, C as shown in Fig. 2 . . the perforations, e, in the top, A, as slown in Fig. 3 , in combination with the perforated plate or air-
distributor, $\mathbf{C}$, 8 s. shown in Fig. 2 , and the hole, $h$, in the lower
purtof the, cap, D , as shown in mut of the ca,, , as shown in Fif. 1 , the ,
stantilly as and for the purpose described.
P. A. Palmer, of Troy, N. Y., for an Improvement in Heating Elevated Ovens. Patented September 24, 1850:
I claim the arrangement and combination of revertible flues in ele-
vated ov ons of cookstoves, with partition walls, in the manner as and for the purrose described and partition
Iorth.
I also claim the arrangement and combination of the oven plate,
, in and with the inner plate and cads of the oven, as and for the
murpose described and set forth. c, m and with the inner plate
Inrpose described and set forth.
I claim the arrangemement of
I claim the arrangemement of the damper, e, immediately between
the main part of the stove. and the bottom, orlower part of the ele-
vated oven, thereby combining ti with the said oven, the stove and
the double flue, $\boldsymbol{c}$, for the purpose of controlling and regulating the
heat in its passage into the flues of the said elevated oven, as de.
scribed, disclaiming any damper found in any stove not having an scribed, disclaiming any da
elevated oven, as set forth.
Henry B. Goodyear, of New York City (administrator of Nelson Goodyear, deceased), for an Improvement in India-rubber Fabrics. Patented May
I cxaim making for frics by thoroughly intermingling and incorporaI claim making fabrics by thoroughly intermingling and incorpora-
ting the shearingsor clipping of fibrous substances with the gum
while rendered plastic by heat, substantially as and for the purpose
specificd while rend
specificd.
J. Woolson, of Cleveland, Ohio, for an Improve ment in Cooking-stoves. Patented Sept. 9, 1845. I claim the forming of the bottom plate of the oven with
number of tubes or boxes, usually of sheet-iron or other substance number of tubes or boxes, usually of sheet-iron or other substance
thinner than the bottom plate, that descend from it, through the
lower flue-space, the same being effected under an arrangement of
their respective parts substantially the same with lower flue-space, the same
their respective parts, subst
for the purpose set forth.
Frederick E. Sickels, of New York City, for an Im
provement in the Mode of Tripping Cut-off Valves.
Patented September 19, 1845.
I claim tripping the drop valve of the cut-off by a motion inde-
pendent of the lifter, substantially in the manner and for the purpose described.
I also claim
off, whether working horizontally or vertically, with any of the moving parts of the engine, otherthan the lifters or the ar rocking maft
by means of the sector and arm or arms, by means of which the exby means of the sector and arm or arms, by means of which the ex-
tent of the cut-of can be regulated at pleasure during the action of
the engine from the full to the leastportionof the stroke, as described. designs.
Henry Hubbard, of New York City, for a Design for the Handles of Spoons, Forks, \&c.

Note.-A fortnight ago we took occasion to complain of the dilator manner in which certain departments of the Patent Office were progressing. We are now happy to state that since that time the examiners have been busy at their labors, and most of the back-work has been brought up. The Commissionner has returncd to his duties after an absence of about six weeks; and some members of the examining corps, who have had a shorter vacation, called upon us during the past week, on their way back to their posts, apparently in-
vigorated by their sojourn among the hills of their New England vigorate
Of the patents in the above list, тurty-might were secured through he Scientific American Patent Agency-a larger number, we are no doubt correctin asserting, than was ever before secured through a single agency in one week. For our superior faclities for obtaining patents, see advertisement on another page.

W. H. T., of Mass.-The facts stated by you in reference to your success in oiling journals are unprecedented so far as we know, but before we could publish them satisfactorily, we shoula
like a sketch of the $w$ yit is done. This would interest our readers more than the bare facts themselves.
E. P. M., of Tenn.-You cannot get a good work on mill-building. Such a work is needed, but the expense of getting mill-building. Such a work is needed,
it up would begreat, and might not pay.
S. C. N., of N. Y.-We do not wish to publish anything more at present upon the subject of "Rain at Different Elevations," unless some very novel view is presented. We will make a note of the substance of your communication in our next issue.
J. J. B., of Iowa.-We have no knowledge of the pracW. J. McC., of Tenn.-You can procure glazed cla pipes from Miller, Youle \& Co., of this city.
M. S. C., of Md.-There are clocks that keep the day of the week, month and year. Paddle-wheels have been invented where a crank was employed to keep the paddles in position. No such contrivance has proved of any practical valu.
mentyou suggest in reaping-machines is not new.
R. B., of C. W.-A good undershot wheel on your fall of $3 \%$ feet (if you have plenty of water) will answer well for driving an upright or a circular saw. Address S. K. Baldwin, Laconia, N.H., regarding the turbine wheel.
S. T. N., of N. Y.-There are a number of patented machines for filing saws. See back numbers of the Scientific Anerican. There are a number of patente in this country for file machines, some of which have done go d work. A file machine is changes. We are not familiar with ans practice of curing spavined horses. You should apply to a "horse-doctor."
J. W. D., of Texas. - The mineral which you have sent us contains a little sulphuret of copper, some shells, and carbonate of lime. It is not worth working for
Your subscription expires Jan. 1, 1860 .
G. B. B., of R. I.-We perceive nothing patentable in your "Plumb and Level Indicator." The same plan has been often submitted for our opinion before. In the first volume of the old series of the Soientifio A
W. H. B., of Ky.-We intend to notice all such communications as are sent to us having a bearing upon our business.
Sometimes, however, the inquiries are of such a nature that we Sometimes, however, the inquiries are of such a nature that we inconventence. Your letter wasone of that kind, and desirous of serving youn, we handed it over to Leavitt \& Co. for attention. We hope you will be satisfied with the explanation, and not attribute any intentional neglect to us.
N. P. A., of N. Y.-The cheapest way to make carbonic air; it cannot be made cheaply from lactic actd salts.
S. W. W., of La.-You have probably learned by this time that the strange light which you saw on the 2d of September was the remarkable aurora borealis, which was observed in Cuba as well as in this latitude, where we are more familiar with the phenomenon. The "savans" would be very happy to explain it if yet eluded the comprehension of man.
J. C., of Ill.-Cement for the outside of brick walls, to imitate stone, is made of clean sand, 90 parts; litharge, 5 parts; plaster-of-Paris, 5 parts; moistened with boiled linseed oil. The bricks sho
applied.
A. Bros., of N. Y.-Messrs. Fox \& Polhemus, corner of Beaver and Broad-streets, sell an article of cotton hose. The Grenoble hose, made of linen and seamless, is sold by Charles Lenzmann, No. 54 Cedar-street. The New York Belting and Packing Company, Nos. 37 and- 38 Park-row, keep a complete assort ment of india-rubber hose
G. H., of Miss.-Our dealers in telescopes do not credit the statements in the advertisement referred to. They say that telescopes combining so great power with so smalla sizehave never been seen here, and that they should have imported some of those advertised if they had not satisfied themselves that the statements were erroneous. Bookbinder's paste is made in the same manner by different persons generally in the trade. It contains alum.
A. F. A., of Conn.-Clay tobacco pipes are made by Edwin Hollely, Nos. 39 Hudson-a venue and 241 John-street, Brooklyn.
H., of Ohio.-It would afford us pleasure to receive other coutributions on coal-oils, especially in regard to the temperature and management of the retorts, the coals most suitable for the purpose and the methods of refining the product
J. A. W., of Ga.-The best alloy for journal boxes is composed of copper, $24 \mathrm{lbs} . ; \mathrm{tin}, 24$; and antimony, 8 . Melt the copper first, then add the tin, and lastly the antimony. It should be first run into ingots, then melted and for the boxes.
G. H., of Texas.-Ice has been made in this city, and in Washington, by mechanical power. The plan was to condense air
by steam or water-power, and then allow it to expand in contact by steam or water-power, and then allow it to expand in contact with water. The expansion absorbed large amounts of heat, makiog it latent, and drawing this heat from the water freezes it. The great capacity of water for heat ( 23 times as much as that of mercury) required so much power to freeze the water that the prosess was too expensive, and was abandoned. We do not believethat
has ever been made in the summer for half a cent per pound.

## Money Received

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, Sept. 17, 1859:J. C., of Mass., $\$ 25$; H. \& F., of Pa., $\$ 30$; M. \& S.. of N. Y., $\$ 25$; J. M. C., of Ky., $\$ 25$; J. C. A., of Cal., $\$ 30$; D. M. C., of N. H.. $\$ 30$; C. C. B., of Ohio, $\$ 25$; D. \& G., of N. Y., $\$ 20$; K. \& M. of Mase., $\$ 25$; P. \& R., of Conn., $\$ 25$; G. C., of Maine, $\$ 25$; N. G. S., of N. Y.,
$\$ 30$; H. R. of Ga., $\$ 35$; W. M., of Maine, $\$ 25$; W. T. J., of III., $\$ 25$;
 W. J. H., of Ala., $\$ 67$; N. H. C., of N. Y., $\$ 20$; G. C. B., of Ill., $\$ 15$; G. W., of Pa., \$25; S. W. S., of Wis., \$25; J. E. L. of Conn., $\$ 20$; C. T. S., of Cal., $\$ 15$; J. H. G., of Cal., $\$ 35$; P. K., of Conn., $\$ 55$; J. L., of R. I., $\$ 30:$ S. R. McD., of Del., $\$ 25$; R. T., of Iowa, $\$ 30$; R. C., of N. Y., $\$ 30$; S. P., of Mass., $\$ 30$; W. T. L., of Mieh., $\$ 28$;
E. K., of Conn., $\$ 10$; H. S., of Ohio, $\$ 25$; J. C., of N. C., $\$ 30$; C. M., of N. Y., $\$ 32$; J. P. B., of Pa., $\$ 30$; W. C., of Ill., $\$ 25$; J. S. C., of $\mathrm{Pa} ., \$ 19$; H. H., of Mass., $\$ 35$; J. E. of Cal., $\$ 20$; T. H. W., of Masa.,
$\$ 310 ;$ H. C. F., of Ohio, $\$ 30$; T. R., of Conn., $\$ 30$; G. F. P., of N.
 of S. C., $\$ 30$; W. B.. of Ohio, $\$ 25$; W. H. K., of N. V $\stackrel{\$ 25 .}{ }$

Specffications, arawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Sept. 17, 1859:-
W. C. of Ill.; C. M. of N. Y.; G. C. B., of III.; C. \& L. of N. C.; S. R. McD. of Del.; P. K. of N. Y.; J. C. A. of Cal.; G. W. B. of La. L. H. F., of Pa.; K. \& S. of N. Y. M. \& S., of N. Y.; W. G. of N.
Y.; J. W. C., of N. Y.; H. H. of Mass.; W. S. K. of Conn.; C. C. B. of Ohio; J. E. of Cal.; W. H. K. of N. Y.; W. M. of Maine ; P. \& R; of Conn.; G. W. of Pa.; J. S. C. of Pa.; J. M. C., of Ky.; C. T. S. of Cal.; K. \& M. of Vt.; H. O. A. of La. (3 cases) ; H. S. of Ohio; J. C. of Mass.; W. T. L. of Mich.

FR. WAGNER, MODEL AND PATTERN MAKER,
CINCINNATI MACHINE WORKS-MANUFACwhe ture Steam-engines and Boilers, Mill Machlnery, Parker Water-
Portable Corn and Flouring Mills (with or without bolts), Muley,
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