

ISSUED FROM THE UNITED STATES PATENT OFFICP for the week ending jantary 10,1860 .
[Reported Oficially for the Scientifio American.]

- Pamphlets giving full particulars of the $\cdots$... of applying for


26,742.-Henry H. Beach, of Philadelphia, Pa., for an Improvement in Grain-winnowers:
Yade movable in such relation to the fan then the steps thereof ar made movable in such relation to the fan that the grain passes from
the frst antep at a $y$, ilit from which its gravity would cause it to fall in advance of the f.s. and where it $i$ is exposed to the preatest strength
of the blatt, in the manner and for the purpose set furth.
26,743.-Levi $\Lambda$. Beardsley, of South Edmeston, N. Y. for an Improrement in Hop Frames:
1 claim the empulownent of a frame holder composed of a elidin,


26,744.-J. B. Blakslee and S. S. Middlcbrook, of Newtown, Conn., for an Improvement in Machinery for Felting Hat Bodies:
We claim the combination of the endless rotating platforms, b
and $b^{\circ}$, when the same arearrauged sons to move in opposite direc. and bend at varring
tions inf
hercin fly set forth.
26, 74 is.-Thomas Board and C. A. Austin, of Jackson, Va., for an Improved Mortising Tool:
We claim the combination of the auger, (S nnd hollow chisel, $G$,
with the screwshaft, $A$ nut, $D$, bars, $\mathrm{E} E \mathrm{II}$ and I J , arranwith the screw shaft, $A$, nut, D , bars, E E E II H and I I J J, arran
ged substantially as ant: for the purpose set forth. [This inveution relates to an improvement in the combined auger and chisel tool for forming rectangular holes or mortises at a aingle operation. The object of the invention is to obtain a simple means forapplying the tool to lts work, so that it may be readily adjusted and manipulated, and thereby effect a considerable saving in labor while performing the work in a perfect manner.]
26,746.-R. B. Brown, of Cambridge, Vt., for an Improved Sawing Machine:
$\mathrm{G}^{\text {I }}$ Ilaim, firt, Operating the carriage, $G$, by means of the pawle, gaw eash, B, through the medium of the liuk, harm, g, rockshaft
M, levers, $L$, , nad rod, $K$, substa:tinilly as shown and decerribed. Second, The whels, j , when attached to the yielding bar, N, and
arranged to operate as described, for the purpose of keepig the arrancel to operate, ns described, for the
Work from the saw as it is cut from the log.
[This invention relates to certain improvements in that class of awing machines in which reciprocating saws are used. The objec of the invention is to expedite the working of eaid class of sawing machines, and facilitate the necessary mandpulation attending the operation of the same, by a very simple arrangement of means.]
26.747.-Joel Bryant, of Brooklyn, N. Y., for an Im provement in Journal Boxes:
I casirn the construction and use of friction roller journal boxes
26, 748. -James Bullock, of Baltimore, Md., for an Im provement in Horse Collars:
I claim a new article of manu facture, to wit, a horae collar having
ts ehoulder and neck telieving portion, $A$ A, made throughous
 C, and otherwise constructed after the method described for the pur
pose described.
[This iuvention consists in making the supporting part of horse collars of duck cloth and with leather bearinge for the frons of the hurness. The duck cloth is made into a sack and atuffed with fine The great advantese of this mode of constructing horec collara is his: a freceirculation of air, vepor, are allowed through the pores of the cloth and consequentls the linbility of the horse's the being called greatly leasened. Another advantage is that it avoid the necessity of a side seam. Viewing the collar as a whole it is more erfect in coastruction, has a nenter appearance, and is less expen sive than collars of the ordinary kind.]
26,749.-Lysander Button and Robert Blake, of Waterford, N. Y., for an Improved Hose Coupling: We claim combining with the male and female parts, Mand $F$, a
closins pipe: havins an cendwise motion through one of said parta, eubstantilly as set forth.
26, 750 . -Nathan Chapman, of Mystic River, Conn., for on Improvement in Cotton and Hay Presses:
 rringed to work or traverse between wass, substantlank ${ }^{\circ}$ as de
scribed.
In combinntion, with the doors, T T, constructed as described, I
clain the arms, $Z Z$, for closing and holding the doors closed, sub. antially as descr:ibed

26,751.—James M. Clark, of Philadelphia, Pa., for an Improvement in Flour Mills:
I claim, first, The arrangement of the center elevator, E, one
trunk of ivhich passes into the bolt chest, and when so arranged the combination of sald elevator with the bolta, $B$ and $C$, and conveyor, combination of
K, nis set forth
Second. I

26,752.-R. M. Curtice, of North Adams, Mich, for an Improvement in Cider Mills:
Indersim the combination of the spheroidal cutter, $C$, and fluted cy -
arranged to operate substantially as and for the purpose aet forth.
[Thls invention consists in combining with the ordinary futed cyhuders prevlously used for crushing apples, a epheroidal toothed cuter, or grater, blaced withina suitable hopher, and so arrenged to
operate that the crushing of the apples in the process of manu factur. ing cider is greatly expedited. The invention also consists in using in connection with the fluted cylinders, clearcra, so arranged as to fre prevent the clogging of the cslinders, so that they may operate eff ciently at all times. The invention further consistain an improved pressing device for expressing the juce from the crushed apples.]
26, 753.-D. De Forest Douglass, of Springfield, Mass., for an Improvement in Artificial Legs:
I claim, first, The piece, e, applied in combination with the stop, $c$, Sccond, The employment of a mortise and tenon aukle joint, $g$

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26, 754.-Augustus Eckert, of Dayton, Ohio, for an Im provement in Pulmonometers:
I claim the application of the buos, $\mathbf{E}$, to the bottom of the floatin
chamber, C , for the purposes and substantially as set forth.
[This invention is an improvement in lung gages consisting in furnishing the bottom of the inner or measuring cslinders with a close said cylment, which eurrounds the same, for the purpose of steadyin point to which it has been blovnup, so as to indicate with accuracs the vital capacity of the lunge.]
26,755.-Howell Evans, of Philadelphia, Pa., for an Improved Inkstand
I clam the reservor, , B, with the cup-shaped mouth, a, conetructed
zubstantially as described, and bo hung to any suitable standard, A, and arranged in respect to the screw or screws, h, or their equivalente,
hat by operating the said screw or ecrews, he reser oroir will be so
hited on the standas to cause the ink to fow either to or from the cup-shaped moith, for the purpose specified.
26,756.-H. B. Fay, of New York City, for an Irt I provement in Stores: I claim the arrantement of the cosi fire-chamber, B, within the
body or case, $A$ the tlue, d, and the pince, ef, communicating re-
spectively with the smoke pipe, $F$, and the interior of the cuse, $\Lambda$, for spectively with the sm
the purpose specified.
[This invention consists in combininga wood and a coal-burning stove in such a manner that either kind of fucl (wood or coal) may be used as desired, and the stove made to diffuse equally as much heat cach.]
26,757.-E. B. Furlong, of Charlestown, Mass., and Thomas Leavitt, of Malden, Mass., for an Improvement in Weighing Apparatuscs:
We claim the nrrangement of the weight, q, operating substan-
ia $l$ ay as et forth, in combination with a weighing mechanism, for
hepurgose specified hepurjose specified.
26, 758.-Josiah W. Gill, of Exeter, N. H., for an Improved Rig for Reefing Fore and Aft Sails:
I claim the above described arrangement and applica tion of the sail gaffand cross-trees, with reapect to the mast and the main boom
sail and gaif, and not only providing the extra aail with furling lincy
ordevices, but the main gaff with nppliance by made to operate with respect to the mast; all substantially as spe-
26,759.-Samucl H. Gilman, of New Orleans, La., for
an Improvement in Furnaces for Burning Bagasse: I claim the combination of an auxiliary fire-chamber for burning
ood, coal, or other suitable dense fuel, with the bagasse fire-chamber, substantially as and for the purpose set forth. And I also claim so combining the nuxillary furnace and its ash-
it, with the bagasse furnace that both the firechamber and abl-pit
f the auxiliary furnace shall communicate freely with the bagaese 26,760.-George Goewey, of Philadelphia, Pa., for an Improvement in Grain Fans:
I claim the emplosment of a sieve constructed as shown and de-26,761.-George P. Gordon, of New York City, for an Improved Printing Press:
I claim the combination of the rotating, reclprocating, inking rol-
er frame, moving as deacribed, upon a center, with the $i 5 p e$ or form bed, when such center and such bed shall always retain their or folative nation with the rotating ink, distributing table.
Second. I claim the combination of the rotating, reciprocating, king roller frame, or equivalent, with the imprion crliuder arms Third 1 claim the rotating, reciprocating cylinder arms or their
equivalents for holding and carrying the impression cylinder or its guivalent, in combingation with the way wor bearers or their equiguivalent, in combination with the rays or bearers or their equi-
valcat. for causing the impression cylinder or scraper oritg equiva-
cnt to move evenly over the tympan and tspe in giving the Iment to move evenly over the tympan and tspe in giving the Im-
pression.
Fourth, I clnim combining with ic burth, 1 clnim combining with na elastic tympan a flexible metalFifth. I claim the combination of a vibrating tympan with a veracal bed or a bed placed out of a horizontal position, when the impresSixth, I claim the combination of a vibrating tympan, constructed
ubstantially as described, with the impression cylinder or its equivalent for the purpose specified. Seventh, I claim giving to a vibrating tympan its periods of mo-
tion and rest, for the purposes specificd, during the continued motion tion and rest, for the purposes specificd, during the continued motion
of the other parta ofthe prese, subatantially as set forth.
Eighth, I claim in combination with an impresion produced by n Eighth, I claim In combination with an impression, produced by a
cylindrical surface, the use of a rotating ink-distributing table.
26,762. -Samuel D. Hailcy, of Jackson, Tenn., for an Improved Surveyor's Level:
I claim, first, Connecting the vertical tubes to the horizontal tube
by means of $n$, sielaing joint, in any manner substantially as desciibed.
Second, Combining a plumb and sights with
keep them vertical, for the purposes set torth.
26,763. - Halvor Halvorson, of Cambridge, Mass., for Improvement in the Mannfacture of Candles: I clain the employment, in combination with the tubular wick, of
the inuer lining, bof sized, starched or plazed paper, or other suff.
ciently impervious material, subgtantill cicently impervious material, substantially as and for the purpose de-
scribat
26, 764.-James T. Ham, of Sinatobia, Miss., for an Improvement in Cotton Presses:
I claim inclining the press as shown for the triple purposc of allow-
ing the sweep that turns the wind lass under the end of the press to ing the sweep that curnt the windlass under the end of the press to
cause the ropes or chains to wind uniformly on the windlass vithout
over-riding or chafing, and to allow the formeto run back by its oun over-riding or chafing and to allow the former to run back by its oun $n$
gravity and spread out the levers for the next operation, as act gravity
forth.
26,765. - Hatsell Higgins, of Orleans, Mass, for an Improved Anchor-tripper:
I clicim the rotary anchor fluke tripper and its holder applied and
used subetantially as nad for the purpoee set furth.

26,766. - Edward Holmes and Britain Holmes, of Buffalo, N. Y., for an Improved Machine for Dressing Staves:
We claim the combination of the atraight roller, $I$, with the convex roller, $J$, so as to allow the edge of the stave, as it pasees into the
cutters, to drop below the center or highes pait of the convex roller cutters, to drop below the center or highest palt of the convex roller
(or bedover which the atave morer) substantially a get forth.
Scond, We claim the combination and arrangement of the Second, We claim the combination and arrangement of the
straight roller, I, and convex roller, J, with the titting frame.
(including the cutter) torthe purposeg and substantially as deacribed. 26, 767.-Thos. Houghton, of Philadelphia, Pa., for an Improvement in Lamps:
I claim the top of the ferrule, A, with itg oval and inclined opening,
in combination with the oval and inclined flange or projetion of tho in combination with the oval and inclined flange or projetion of the
cap, B; the said fange and opening being formed and adapted to each
other subetantially as and for the purposea set forth.
26, 768.-John A. Howland, of Providence, R. I., for an Improvement in Coal-sifters:
I claim the combination, with the sieve, $D$, of the center plate, $f$
center. g , boss, $^{\text {C }}$, and slannk, $E$, as and for the purpose shown and
described. described.
[This invention consists in arranging in the interior of a barrel a center, which is supported by two or more arms that are attached to the inside of the barrel, and which center serves to support the sieve in such a manner that the latter can be rotated, and that it is guided
by the center below and by the shank passing through a hole in the by the center
cover above.]

26,769.-Gco. W. Hubbard, of Meriden, Conn., for an Improved Molasses Gate:
I claim making the covering part adjustable, by means of the 26,770.-John W. Hudson, of Lafayette, Ind., for an Improvement in Seeding Machincs:
I claim the teeth or share, $D$, provided with eeed recentacles, $h$, fitted on the reds, a, as slow wn, provided with sece slidec, or and
ranged to operate suls stantially as and for the purpos set forth.
[The object of this invention is to obtain a machine that may be used both as a roller and seeding machine; both functions being performed at the same time, or, by a simple adjustment, either performed separately. The invention also has for its object the varying of 26,771.-Jolm Lane, of Lockport, Ill., for an Improvement in the Mole of Drain l'lows:
I claim the combination, with the yeculiarly-constructed mole, A
$\mathbf{A}^{\prime}$, of the shoulders, $\mathbf{c} \mathbf{c}$, which extend from the base of the mole slope backward as they rise, nnd terminate at a point about midway
between the back of the stem or coulter and the rear end of the mole. ubstantially in the manner and for the purpose set forth.
[This invention consists in constructing the mole which forms the drain so that the front half of ite length first forms what may be crmed a minor arch-shaped drain, with compacted side walls; and alls, converta the minor drain $b$ aror alls, conve he more the ing or cutter formed on pach side; and these winca a the mole progreses progresses through the ground, cut away the compacted earth which comp the side wase to the top of the droin and thus ensure a in its pack of the drain at the top, and a filling up of the alit formed by the coulter atem with dirt which has already been, to a vers creat exent, rendered compact. Thla is certainls a very ingenious and valuable invention, as every one who is acquainted with this subject will readily perceive.]
26, 772.-Robert Larter, Jr., of Newark, N. J.,for an Im-
provement in Apparatus to feed Paper to Printing Presses:
I claim, first, Simultaneously moving inward a series of friction pieces from near the edge of the pilc of paper, while a corresponding
series of leganre pressed upon the pile at pointa nearer the center
 near the top of the pile to rise in the space betiveen the rubber and the legs; the upper one being raised more than the rest, and being
thercby senarated therefrom by a coniderable stratum of air.
Second, $I$ claim, in conneetion with hollow and vacuous legs, $G$, used in the manner substantially aith shown, beveling the boasiag of the
legs to correspond with the inclined poition asumed by the upper
sheet, C, under the action of the friction pieces, M. Third I claim controlling the apertures between the bollow legs,
 set forth. $\quad$ claim allowing for variation in the hight of the pile of the paper by providing slots, or equivalent "lost motion, "in the connections. F Fo or thelr equivalents, and determining the time of the
rubbin actiontand also the time of producing the vacuum in the
legs. Go, or their equivalente, bvthe contact of $L$, or nn equivalent portion of the separating apparatus, with the pile of paper.
Fifth, I claim elcrating the front edge of the sheet, after its separntion from the p:ie, and presesine the same against a series of tapes,
V, by a blast of air, arran
 the vancuum in the leps, $G^{\prime}$, is destroyed. I also claim in combina-
Hon there with, effecting the complete sepration of the upper sheet
from the remaind er of the pile by the deflection back ward of a portion of the same air after its action on the front edge of the sheet, Sixth, I claim securing a corrcct position of the front edge of the
shectby carrying it forward inalt vance of the timp it in required to
 resented to its front edge, for the purpoes of turning it into a correct
Seventh. I claim giving a side motion to the sheet to secure a corSeventh. I claim giving a side motion to the sheet to secure a cor-
reet position of one of its ed co, by $n$ continuous movement of the
rollere, $X$ or their Eighth, I claim reversing the side movement of the shect so as to
register by either edge at pleasure, substantially in the manner shown.
26,773.-Walter G. Mackay, of New York City, for an
Improvement in Ventilating Sinks, Water-closets, \&c.:
\&c. :
I claim the application of the ventilating pips, $A$, at the upper bend
of antipe tran, and at its iunction with the soil pipe, $B$, in combination with eaiill trap and soil lipe, in the manner and for the pur-
poses apecified.

26,774.-Eli Manross, of Bristol, Conn., for an Improved Latch fur Gates.
I claim, asa new article of manufacture, the latch for doors aud
gated consisting of a movnlule catch retained in place bs a spring, und Gated consisting of a movnlle catch retaned in place by a sprink, und
ated upon by a slotted plate and projection, substantially in the
manner and forthe purpose described.
26,774.-E. J. McCarthy, of New York City, for an
Improvement in Machinery for Burring Wool:
I clam the combination of the feed rollers with the etripping plate
ond the drav roller, arranged subetantially as described for the rur.
prse set forth.

26,776.-Geo. A. Mcacham, of New York City, for an! Improvement in Buttons:

 traed or univuttoned, substantiall as set forth and described. Second, The tecth, harranged at the bs
stantially as and for the purpuese set forth.
26,777.-John Miner and Silas Mcrrick, of New Brighton, Pa., for an Improvement in Iron Railroad Cars:
We claim the emplosment of panel plates composed of a single
picee of sheet metal struck sup (whether such raised arts be orna-


26,778. -Thomas Mitchell, of Lansingburgh, N. Y., for an Improved Machme for Boring Brush Blocks:
 tingly longitudinal sliding movenicot, und a reci procatine feed


 purpose set forth.
26,779.-James Montgomery, of Baltimore, Md., for an
Improvement in the Construction of Stcam Boilers I claim making vertical, or nearly yerticul, water tubes for steam
boilers or or other purposes with
the ir from the furanace is appliced at its lowest cemperiture, thitcker for any
desired portion of their length than their upper ends to which the

26,780.-Campbell Morfit, of New York Sity, for an
Improvement in Compositions for Coating Candles
 pose of hardening
burning qualities.
26, 781. - Joseph R. Palmenberg, of New York City, for an Improved Frame for Ladies' Dresses:

26,782. .-Washburn Race, of Sencera Falls, N. Y. for an Improvement in Stove Registers:

 register plate through the connection of the single clutch lever, Gi,
with the expansive rod, C , in combination with aaid clutch lever and

26,782.-Henry Rasquin, of New York City, for an Im

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Scend cond F revidicie the boot or choo with a groove, H , and with
sprin
pose set forth
26,:84.--Robert L. Reancy, of Philadeiphia, Pa., for an Improvement in Gold Separators.
 he purpose thovn and described.
iThis invention combines, in one machine, three distinct opera cions, viz. grinding the grold quartz wh other mincral with which gold $a$ found associated, and recucing the same to a pulverulent state held in suspension by a stream of water acting upon them in ancall liar manner: and lastl;, effecting, by means of grinders or crusers (which also act as a itators) and the metion of the water crushera quartz, a more perfect amalgamation of the porticles of pold tha ha vet beca space. Thisinvention will be understood by theubovecluim.]
26,785.-Gconge W. Robertson, of Philadelphia, Pa., for
an Improvement in the Waste-cocks of Hydrants


? 6,786 .-F. W. Robinson, of Richmond, Ind., for an Improvement in Horse-powers:
 Fhown aniond $\mathbf{G}$, shaff,
shosribed.
26,787 .-C. B. Rogers, of Norwich, Conn., for an Improved Machine for Cutting Moldings:

 pose set forthe he combination of the feed rollers and cutter heade, arnnged for joint operation as described.
This invention consists in the use of feed rollers and cutter heads, Aner obliquely with the stick, in such a manner that the feed Wh impart both a rotary and a longitudinal rectilineal move obliquely with it, and cut the spiral bead or beads thereon.]
26,788. Wm. Schaubel, of Philadelphia, Pa., for an Improvement in Steam Boilers:
I claim the arrangement of the casing, $\mathbf{A}$, with its coiled flue, $\mathbf{G}$,
,
26,789.-J. A. Sheffer, of Rochester, N. Y., for an Im provement in Coal-sifters :

26,790.-Abrahain Shultz and Daniel Shultz, of Read ing, Pa., for an Improved Washing Machine:



26,791.-Franklin Skinner, of New Haven, Conn., for an Improved Machine for Cutting Shavings for Mat tresses
I claim the combination of the two wheele, $B$ and $D$, or their equiv alents, with their appendages, when the whole is con
made to produce the result substantially as described.
26,792.-R. L. Smith and C. Smith, of Stockport, N. ., for an Improvement in Machines for Finishing Leather:
 horizontany moving stock, , and
stantially as as han and deacribed
Second, The arrande
Second, The arranaement and combination of the vertical feed -
egulating serew, G , lever, H , and bar, E , as and for the purpose set
Torth Third, The arrangement of the horizontal feeding nut, $M$, screw
 Fourth, The combination with the rrank, A, , nnd rod, o, of the
ovalo f the polishing tool may be changed at pleasure.
[The object of this invention is to obtain a machine whereby the length of the stroke or vibration of the tool, as well as the pressure of he same on the leather, may be regulated whe frat andity h mich the len ina,
26,793.--Samuel M. Smith and Calcb Winegar, of
Union Springs, N. Y., for an Improvement in Drain Tile Machines:
We clalm the relative arrangement, for united operation of the
screenin
 arposes set forth.
[With this arrangement, the operations of pulverizing, screening and molding the clayintotilesare performed in one machine, by a continuing revolution us the ariving shaft the pulverization occur ing first the screening second, and the molding third. The pulver zed clay empties into the screening box; from there it is forced through the screens into the molding box, and from these through the tile molds' the a rangement being such that, while the clay is being creened at one end of the machine, pulverized clay is coming int the screening bor at the other end, and screened clay is being forced ut through the tile molde. This is a simple and jerfect arrange 26,79
6,794.-John Souther, of Boston, Mass., for an Im-
provement in Apparatus for Evaporating Saccharine Juices:
1 claim, first, a portable steam ladle for boiling hot sugar canc
nice from one kettle to described. Scond, inim the ladle constructed with a valve in the bottom, Seceive the cane juice, or unkur, and a hollow handle or spout
hrough which the contents of the latide is discharged suid spout being suspended at a fixed higut, substintially in the man-
net and for the purrose descrihed. net and for the purpose descrined.
Third, claim the combination of mechanism described, substan-
tially in the manner anc for the purpose set forth. 26,795.-Samuel Squire, of Brooklyn, N. Y., for an Improvement in Hydrostatic Balances :

26.796...J. K. Staman, of Miflin, Ohio, for an Improve ment in Cultivators
I claim, in combination with the bows, $A$ and $D$, arranged relative as specined, and having their lower ends chamfered as described,
he ctiftivatig teeth or Ahares $P$, and the connecting brace strap, when the whole is risat
the purposes specified.
26,797.-G. A. Stanley, of Cleveland, Ohio, for an Im provement in Machinery for Molding Candles:
 Aionary frame, by means of which, in the descent of the molds, the
candles are discharged the refron, as specified.
 Third, $I$ I laim the blades, $X$ in combiuation with the plates upon curcd between the purpose of severing the wick after it has been seFourth, I claim thr blade sttached to the rack, M, for the purpose
f cutting off the butt end of the candles, and separating the sprue Fifth, I claim the candle rack, $Q Q^{\prime}$, and R R', alranged and operating substantially as described, for the purpose of removing the Sixth I claim the described sprue box of adjustable parts- 1 st, to
retain the tallow, 2 d , to eff ect the removal of the sprue tallow, as set
forth.
26, 798.-Geo. A. Stanley, of Cleveland, Ohio, for an
Improvement in Machinery for Molding Candles: I claim the arrangement of the blades, $\mathbf{E}$, upon the bar, D , for the
urpose of cutting off the butts of the candles, and scraping the bot urpose of cutting ox.
om of the sprue box.
Sceond I
Scond, I claim forming the ends and sides of the sprue box of the
cet:angular frame, $\mathrm{HF} \mathrm{F}^{\prime} \mathrm{G}$ G ${ }^{2}$, and removing the sprue tallow, means of the movement of this frame, as specified.
26,799.-David Thain and Wm. Jackson, of Philadel
phia, Pa., for an Improvement in obtaining Fatty
Matters from Residues:
Matters from Residues:
We claim obtaining the fatty acld, and other fatty matter remain
ing in the "acid bottoms" by distillation, in contact with superheated
steam, substantially as desribed ing in the "acid bottoms" by distill
steam, substantially as described.
26,800.-R. B. Thompson, of Galesburg, Ill., for an Improvement in Tanning:
I claim the combination and use of the several ingredients com-
pounded in proportion, as described, for the purpose of tanning
leather from hides, as set forth.
26,801.-Lawriston Towne, of Providence, R. I., for an
Improvement in making Chain from Sheet Metal: I claim, first, Forming that portion of the carrier in which the turn on an axis which shall be colncident with the axis of the blank
link upon it, substantially as described.
Second Sccond, The combination of the supplemen tal plate, or its equiva-
lent, with a stop, H, or its equivalent, forthe purpose of deterninin he extent of rotation which shall be civen to the plate, E , and thus
nsure the proper presentation of the blank to the chain , substantiall as dessribed for the purpose specified.
Third, $I$ claim the mode of
Third, I claim the mode of operation, eubstantially as specified, by
means of which the punch, N , stop, E , and bendin; picks, d d , or
their neans of fivalents, are made to cooperate in alternate positions in re 26, 802.-G. J Wardwell, of Barnston, Canada, for an Improvement in Stonc-dressing Machines
I claim the combination of a " stunner," and cutter together, or in
the same instrument; the stunner preceding the cutter in its action
both to "tun" the material for tho cutter and to gage the depth of its
ut, substautially as described. Inalso claim the arrangement of the shafts, i and $j$, of the band pull
leyp, $u$ s, upion frames, $v$ distinct from and pivoted to the bed leyp, us, unon frames, $v$ p, distinct from and pivoted to the bed
frames, $\begin{aligned} & 1, \text { s o that said shafts may be brought to a horizontal posi- } \\ & \text { tion (nearly (r exactly), when the machme is working in an inclined }\end{aligned}$ tion (nearly or exactly), when the machme is working in an inclined
position, in thin nunner and for the purpoes specified
 suby finger, b, aud sword, h"' whereby the shipyng frume and fi fin
and stay finger, arr operated by one and the sume movemcnt of the
shipping lever, substuntially in the manner and for the purpose speciBhipp.
fied.
26,803.-A. A. Vilder, of Detroit, Mich., for an Improved Clapboard
claim the rounding or beveling the lower edge of clapboards, 26,804.-W F. M. Williams, of Augusta, Ga., for an Improvement in Bridle Bits:
I cham a bridec bit, construced in any manner stibstantially as set Second, I claim combining sliding levers with two bars in the
month, and adopting this construction to any bit now known, eub. thniailly a a and for the purposes set forth. Third, I claim the combination of an elastic and leather stron, con-
nected as shown, with the circular sliding lever, and the bariu the
nouth, in the manner set forth and shown

26,805.-M. P. Wilmarth, of Pawtucket, R. I., for an Improvement in Ring Spinning Frames:
I claim the construction of the ring with the upwardly projecting
26,806.-O. D. Woodruff, of Southington, Conn., for an Improved Meat-cutter:
I claim the employment nnd arrangement of the revolving plate, , overiting substantially in the manner and for the and cutters, ribed
807.---Edward Bagot (assignor to G. B. Gordon), of New York City, for an Improved Beer Measure: I claim the combination of the two yipes, B C, applied to the beer
mensure, as auid for the purposes set forth. [The object of this invention is to obviate the difficulty attending he frothing of the beer as the latter is drawn from the barrel. This rouble the becr, especially if it be new, causes a great deal of ctailing, as considerable time elapses before the froth subsides. This invention consists in admitting the beer into the lower part of the measure and also pouring the beer from the lower part, by which arrangement the froth is prevented from forming in large quantities, and the froth that doce form allowed to rige above the inner end of the discharge spout so that it may subside without being discharged from the measure.]
26,808. -Francis D. Ballou (assignor to himself and J.
L. Nash), of Abington, Mass., for an Improvement in the Manufacture of Boots and Shoes:
I claim antaching by sc ving, the welt or strip of leather to the uppers of boota and soces freparatory to lasting the same thus
cnabling the work to be permed by se wing mechanism, substantially in the manner and for the jurposes set forth.
26, 809.-Henry Belfield (assignor to himself and Justice
Cox), of Philadelphia, Pa., for an Improved Latch for Sliding Doors.
I claim the handles, D D, jointed to the plates, $C$ C , with the spring
latch, $G$, or its equivalent, and the whole applied to $a$ sliding door


26,810. -Theodor Blume (assignor to himself and W. W. Hamer \& Co.), of Cincinnati, Ohio, for an Improved Machinc for Facing Pulleys:
I claim the described arrangement of the grindst one, $A$, hinges the whole beeng constructed and cumbined in mamner substantially

26,811.—Seth Boyden (assignor to himself and H. H. Jaques), of Newark, N. J., for an Improvement in
Machinery for Forming Hat Bodies:
1 claim the fur director or plate, Ji, curved or bent, substantially o operate substnntially as and for the purpose set forth.
iThis invention relates toan improved mode of directing or guiding he fur to the come, whereby trunks and all other comparatively complicated appliances hitherto used for the purpose are dispensed ith, and cxcecdingly simple and efficient device substituted there for.]
6, 812. -Geo. Bradley (assignor to Jacob S. Rogers), of
laterson, N. J., for an Improvement in the Cop Spinning Frame:
I claim the combination of the grooved tube, Ce, and collar, E E'
with the dead spindle and coll, A A, when the whole is operated sub-
stantially in the manner and for the purposes sct forth
26,813.-Wm. B. Card (assignor to himself and John
Sheny), of Sag Harbor, N. Y., for an Improved Slarm for Drawers:
I clnim the slide, $I$, arranged with the bar, II, and knob-arbor or
spindle, $J$, levers with the alarm, , sulstantially na and for the purpoge set forth. the slide, I , in connection with the projection,, , on the the bar, IH , of
the coun ter or table, I , as and for the purpose set forth.
26,814.-Orril R. Chaplin, of St. Johnsbury, Vt., assignor to himself and O. G. Hale, of Waterford, Vt., for an Improvement in Mowing Machines:
I claim making the outter bar or hollcer, E , in sections hinged
 the connection, $F$, of the tails of the cutters in, sections binged
together and to a connecting rod, essentially as described. In also claim making each tooth, 1 , stluated nt the junction or jnint
of ach two sections of the cutcr bar in two parts hinged together of each two sections of the cutter bar in two parts linnged together,
constructed and applied respectively to the two sections, as and for constructed and applied respectively to the two sections, as and for
the purpose specificd.
I also claim combining with the cutter bar mace in sections, connected as de scribed, a stiffener, L, constructed and made to operate threwith en bstantially na describe d. N, and the whaft, M, together and to the frames, $A$ and 1 , substantially as specified, in order that, by
means of simultancous movements of the lever in backward and ateral directions, the cutter Lar frame may be elevated and the st1flatern impections, the cutter bar frame may be ele
fener impelled forward at one and the same time.
6,815.-Lewis S. Chichester (assignor to Henry G.
Evans), of New York City, for an Improvement in Cotton Gins:
I claim, first, The emiloyment or use of the flanched shaf, $P$, ar-
ranged relatively with the roller, F, fuard prate $G$, gcreen, $H$, and ranged
feed
forth.
Seco

H, and feed board, I , aubatantially a a shown, for the purpose epeci-
A, and feed board, 1 , substantiall as show, for the purpose epeci-
fied Third, The corrugated roller, E, in combination with the auxiliary
smooth

 and for the purpose set fort
Finh , The employment

22,816.-John Dick (assignor to himself and S. C.
Hills), of New York City, for an Improvement in
Sewing Machines:
claim, first, The combination of feeding dog attached ton leve
rorking on a fixed axle, ou vihich the feed wheel rotates, and $a$ a
re




26,817.--Henry C. Foate, of Fredericktown, Ohio, as signor to himself and C. Kilgore, of Chattanooga T'enn., for an Improved Combined Watch-key and Calendar:
I claim the combined calender and ahield as a new article of mauut
facture, hee same consisting of a shield, circular platee and split rins
[This invention consista in combining with a ahield an adjust able circular plate; on the latter is inscribed the dass of the month and days of the week, and on the former the days of the month the whole forming an almanac which may be adjusted so as to readily indicate the day of the week or month; it forms also an ornamental pendant which, if made of gold or other metal, may be hung on a watch chain or ribbon, by a split ring or other suitalle fastenivg, which will serve to keep the dial platein its phace.]
25, 818. -- Franklin B. Hunt (assignor to R. D. Van
Duersen and Ira B. Gibbs), of Cincinnati, Olno, for an Improvement in Mills:


26,819.---Joseph J. Knight, of Philadelphia, Pa., assignor to himself, Thomas l'atterson and James
signor to himself, Thomas Patterson and James
Lyndell, of Br
Corn Planters:


26, 820.---Vm. P. Jatton (assignor to himself and Wm. Moyer), of Harrisburgh, Pa., for an Improved
Moyer), of Harrisburgh,
 Co.), of Pittsurgh, Pa. for an Improvement in Railroad Car Wheels.
I claim makiagrariiroad car whels having cast iron rims, and hubs







 inn pr and
seribed.
$26,822 . \cdots-$ L. A. Dole (assignor to himself and Albert
R. Silver), of Salem, Ohio, for an Improved Tool
for Cutting Round Tenons




rth.
This is a very neatand simple tool. The end of thepiece of wood which has at ite front end several ratial resta and a radial cutter. The tool is revolved, and the stick being fed forward on the rests, has a perfectly round tenon furmed on it by the cutter, the length of the cenonbeing gaged by means of an adjustable stop at therear cnd of he tube. Mr. Dole also obtained a patent, through the Scientific american Patent Agency, last week, on a gimple and good washing
machine. This washing machine produces, by one movembing antion on the clothes.]

## designs.

S. W. Gibbs, of Albany, N. Y., assignor to North, Chase and North, of Philadelphia, for a Design fur Stoves.
Theodore W. Lillagore (assignor to Savery \& Co.), of Philadelphia, Pa., for a Design for Fire-dogs. additional improvement.
Addison G. Brush, of Great Bend, Pa., for an Improve ment in Operating Churns. Patented June 15, 1858:
I claim, in combination with the rotating tread wheel, A, the vertienl ping, a, vibrating levers, bb, and connecting rode, d, d, arranged
and operting with the rockataft which drives the ch urn-dabhers,
an apecified.

## Moteref Tupyive

## E. P. J., of Vt.-To make a cheap telescope, procure

 from an ontician a 35-inch object-glass (that ie, a convex glase which produces a focus of the sun's rajs at the distance of 35 inches), and a 1 -inch eye-glass (that is, a convex glase producing a focus at 1 inch). Employ a tin plate-worker to make two tin tubes, one 30 inches long, and about $11 / 4$ inch in diameter; the other, 16 or 12 inches long, and its diameter such that it will just slide comfortablyinside the larger. The inside of these tubes should be first painted, or otherwise lined with a dull black. At the end of the larger tube an ingenious workman vill have no difficulty in securing the object-glass, so that no mare than an inch diameter of it shall e exposed, and at the end of the smaller tube the eye-glassmust be fixed. When the open end of one tube is inserted in the must be fixed. When the open end of one tube is inserted in the open end of the other, so that the two glasses shall be about 37 inches apart, a telescops will be presented which will magnify the diameter of objects ontimes; or, in other words, will make heaven ly objects appear 30 times ncarer. TVo need acarcely add that, with this instrument, all objecta will appear inverted; but, with regard to celestial objects, this is of no importance
C. T. M., of S. C.-You say: "Sceing an answer to a correspondent that a guupowder encine would not work, for the reason that it would explode too suddenly, induced me totry the experiment. I took a tin can, and fixed the mouth of $\Omega$ pistol in it, with a gas cock to shut off to reload; and found, by firing very amall quantities of powder in at a time, I could get up considerable pressure without burating the can. Could that be uaed as a boiler in place of steam? I do not want to go to the expenge of a model if it willnot work." An interesting experiment; but the great
difficulty is to prevent the cylinder from becomias foul with porder amuke.
J. I., of Iowa.-A circular saw which has become "buckled" by overhenting can be straightened by the usual mode of hammering, or by cutting into the softened part, or by pressing series), Scrivilic A method described on are great care and a proper anvil to straighten a buckled asw by hammering, but it is the best method. It would require too much of our space to give you re cipes for making such a number of varnishes as sou desire forfurniture and carriages.
M. M., of Mo.-When air is raised in temperature in a close vessel to 3500 Fuh., it exerts a presbure of 10.69 lbs on the square inch. When air is heated to 4010 Fah., it is doubled in volume at the same pressure; or, if confined toits original volume, air, it gives out its late ise one is subjected; but we have notable of experimenta which give the accurate degrees of temperature according to the pressures.
I. K., of Pa.-A belt for polishing oak and hickory arokes is made hy conting the belt with glue, then dasting it over the entire surface with very fine emors; and allowing it to drs.
Give three separate coats in this mauner. Some persons mix the Give three separate coats in this maner. Some and put the whole on at once with a brush. Be sure and allow it to dry thoroughly before you use the belt.
I. C. H., of Cal. - We have read of Dr. Collyer's dís corcries in paper-mikiso fruse straw, so., but we arenot minutels acquainted with the process. So far as we have een able to learn, we have thought was simar to taken out by' Collyer in this country, but he has secured it in Eng. taken out by Collyer in
land, where he resides.
D. L. W., of Ind. - You are right about perpetual motion being as easily obtained by a magnet placed in a close vessel containing aquafortis and iron as by any other mode. The magnet,
however, will soon become an oxyd by the action of nny free acid however, will soon become
that mas' be in the bottle.
H. K., of --The atmospheric hammer to which you refer could compresaairin a cylinder by ita falling action, but no benefit could be derived from such an application, because no Work could be performed bs the falling hammer but the compres-
Bion of the air $\Delta$ calvanic bettery is made of alternate plates of zinc and $\Lambda$ galvanic battery is made of allers containing dilute sulphuric acid. All the plates are connected together in a circle with a thick copper wire.
J. N. V. L., of Va.-We do not remember having received sour new theory in regard to the aurora borealis; but if we had received it, we should probably not have published it. We ralue new theories much leas than we do newfacts. If you will make any obbervations on the aurorant its next appearance, and will send us an account of them, we shall be pleased to give them place in our paper. A gentlemanin our office offers to furnish us
with one new theory of the aurora borealis per day throughout the with
sear.
F. L. G., of Conn. - You ask whether the metals gold, silver, copper and iron growor not. All the metals are aimple aubstances, and the quantits of them on the earth doce not vary (with
the exception of the small amount which is added by the fall the excention of he small and fall of from one part of bit parthan of themare coastantly beiag moved of a hill may be washed down by the water and deposited in new of a visible to the nated eye the bodics of which are covered with vinle the and the ble multitudes as to form beds of iron ore which will supply largo furnaces for years. Beds of motal may grow, but the quantity of metal on the earth does not sensibly vary.
J. W. \& N. G., of C. W.-You can cast your plow points as hard as ateel on the surface by using iron molds. You must cool the surface of the metal euddenls, if you wish to make it hard.

## R. E., of Miss.-Sufficient heat may be concentrated by

 a burning lens from the solar beam to heat as much air as will and to be continuously shifted, in order to focus the rays. The apparatus would be impracticable foruseful purposes.T. D. W., of Ala.-India-rubber tubing is not used in conveying steam except on extrnordinary occasions, such as for carrsing steam to extinguish a firc. It mas thus be used, as it can stand a temperature somewhat above 23coFah. We do not know the pressure such tubing will stand when highly heated, but you can get it made to stand a pressure of 200 lbs. of water on
the square inch. the square inch.
W. W. H., of C
R. W. H., of Conn.-We think such a pipe as you mention would be very useful in many cases. We suppose you are arrare that steam hose is made atrengthened with coiled wire inside. but this is neither metal pipe nor elastic.
W. H. S., of Ind. - There is no tool used for dressing millatones, known to us, called the "diamond pick." Millers have frequently much trouble in obtaining picke that will keep the edge well for dressing stones, and they eenerally attributs the failure to a want of skill in tempering. The great object should be the selection of bood cast. steel, as no skill in tempering can make a good tool out of a poor piece of metal. Your method of backing millsiones will be acceptable for publication.
S. 'T. V., of N. Y.-By boiling hickory wood in oil it doce not become "seazoned" according to the enmnion meaning of the term; but it is rendered harder and is prevented from absorbing moisture. Unlebs great care is observed, however, to boil it for a very short period only, the fing ouick, by submitting it to boiling in wou can seneon sour hickory fuch allowing it to dry afterwards in a shed. Steaming rould effect similar resulte,'tho hent to which it is submitted having the effect of coagulatin the vegetable albumen in the sap.

## Money Recelved

At ${ }^{\text {the }}$ Scientific $\Lambda$ merican Office on account of Patent Onice buainesy, for the week ending Saturday, Jan. 14, 1860:-
S. \& J. II. B., of Mo., $\$ 3 \overline{5}$; G. McK., of Ill., $\$ 25$; G. D., of Ohio, $\$ 2 \mathrm{~J}$; B. J. L, of Mas., $\$ 50$; J. M. K., of Vt., $\$ 25$; J. A. S., of Vis. $\$ 35 ;$ J. W. C., of Mrine, $\$ 30 ; \mathrm{D} . \mathrm{G} . \mathrm{F}$. of Wis., $\$ 30$; R. P. B., of
Mise., $\$ 35$; I. W. K., of Cal., $\$ 15$; T. II. B. \& Co., of N. Y., $\$ 250$;
 G. W., of Conn., $\$ 30$; C. A., of Inl., $\ddagger 55:$ I'. M., of Ill., $\$ 55 ;$ J. G. P.,
of Pa., $\$ 30$; T. J. G., of Mass., $\$ 25$; G. W. D., of N. Y., $\$ 20:$ I. E. of Pa., $\$ .30$; T. J. G., of Mass., $\$ 25$; G. W. D., of N. Y., $\$ 20$; I. E.
P., of Conn., $\$ 25$; G P., of N Y., $\$ 25$; O. H., of N. Y., $\$ 15$; II. If., Po, of Conn., $\$ 25$; G P., of N. Y., $\$ 25$; O. H., of N. Y., $\$ 15$; II. II.,
of Cal., $\$ 10$; A. II. C., of Wis., $\$ 12$; A. E. D., of Ill., $\$ 30$; D. W.
 of N. Y.. $\$ 30$; G. P. of N. Y, $\$ 30: \mathbf{V V}$. B. \&iR. B., of N. Y., $\$ 20 ; \mathrm{J}$. P. H., of La., $\$ 25$; UV. C., of N. Y., $\$ 35$; W A. Y., of Vt., $\$ 25$; J.

 J. II. N., of N. Y., $\$ 30$; C. \& P., of Ind., $\$ 30$; J. McC., of N J., $\$ 20$; B. \& F., of Pa., $\$ 36$, H. B. F., of N. Y.. $\$ 30$; J. H., of R. I., $\$ 50 ;$ M. W. J., ofR I $\$ 2$, \$u, E. M., of Cal., \$1o; J. R. E., of La., \$.s; R. F. C. R., of N. Y., $\$: 0$; P. A., of N. Y., $\$ 25$. 'I. D., of N. J., $\$ 25 ; \mathrm{J}$. B. T., of Ill., $\$ 25$.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Ofice during the week ending Saturday, Jan. 14, 1860:-
T. D., of N. J.; P. A., of N. Y.; J. B. T., of Ill.; S. R., of N. J.; N. C. S., of Conn. (2cabes); J. M. K., of Vt.; I. E. P., of Conn.; II. H.,
of Cal.; G. L., of N. Y.; G. W., of N. Y.; H. M., of N. J.; O. IL, of N. Y.; J. P. L., of N.Y.; F
D., of Conn.; T. J. G., of Mase.. J. N., of N. Y.; R. W. II., of Ga.. J. C., of N, Y.; W. A. P., of Vt.; T. R. D., of N. M. S., of Conn.; J. H. C. of R. I. (2 casea); G. WV. D., Jr., of Y.; A. H. C., of Wis.; G. P., of N. Y.

## Literary Notices.

The Grand Haten Weekly Clarion, from its


Hovey's Magazine of Horticulture. - This pioncer journal enters unonits twents-sixth nnnual volume with the
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 eminent D. Chalmess-have been advocates of beautiful and correct
illustrations of sacred topics.

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