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42,453.-Hardening Cast Iron.-Thomas Allin, New York City : I claim the process, substantially as above de cribed, of hardening
cast iron by plunging it in a bathof acid and water when it is about
a blood-red heat, substantially as set forth 42,454.-Rake for Harvesters.-N. Allstatter, Hamilton, Ohio
 lique plates, $n n^{\prime}$, on the segment plate, $E$, and the curved patate,
$1 K K K^{\prime}$, all arranged for joint operation as and for the purpose herein In comblnation with the parts specifled in the foregoing claim, I
Iurther claim the flexible or further claim the flexible or jointed rake-head, arranged to operate
substantially in the manner as and for the purpose herein set forth. This invention relates to a new and improved raking attaohmen marvesters sweep forward and back ward over the plationm in the arco a circle The inventionconsists in the peculiar means employed for operatin ple, eticient, and durable rake eperating mechanism is obtained, end one which a drive be ardich and one which may be driven by a moderally constructed and applied.]

42,455.-Coal-oil Lamp.-Joshua C. Ambrose, Jerse City, N. J.:
 ployment of the cone, Nand N2, fount, B, a
purpose or purposes herein fully described.
42,456.-Picker for Looms.-James Bardsley \& Allen W. Gordon, Wilimantic, Conn.
I claim the picker-fastener constructed with a slanting portion, b
and fitted with a set screw, D, operating substantially as herein
Bpecifed.
[This invention consists in a novel and very simple device for at taching the picker to its staff, which provides for its adjustment to the proper hight, add which strengthens the stafl
42,457.-Japanning Corset Steels, \&c.-Charles H. Bas sett, Derby, Conn.

## I claim the method, substantially as described, of japanning or coatiog steels and other artices by dipping chem into the ja panning solution and withdrawing them, at a velocity less than that atwhich

 the japan flows off of the article.42,458.-Destroying Forts, \&c., by means of Inflamma Ante-dated April 19, 1864:
I claim the above-leecribed means of inflicting injury upon an Ineray, by employing the liqu ld reaterred to, or any equivalent there
for possessing the properties above enumerated, in combination with suitable machiner, for projecting the same to a distance, substan
tially as set forth. I also claim using only the said crude petroleum, or said oill, or any
other inlammable oil, ior the purpose specifad, aiter flame has beei
originated in the mand originated in the manner substantially as set forth
42,453.-Drum
waukee, Wis. Waukee, Wis.:
I claim the arrangement of the inclined or roof-shaped deflectors
in the fue space of a radiating cylinder, for the purpose and in the
manner herein described and represented
42,460.-Corset.-Smith Collins, New Haven, Conn.: Io claim a corset hav ng the diagonal stays, D, arranged relatively to the stays, $B$ C, and the busks, $c$ c, inserted
ner descrlbed, and for the purpose specified.
42,461.-Let-off for Looms.-George Crompton, Worces ter, Nass.:
I claim the combination of the tension and friction rollers or bare,
and their respective frames, the tension weight, and warp beam,
with the warp as described. The combination of the tension and friction framed levers and rollers, or bars therein, and the the
beamhead or heals, as described.
The combination of the
The combination of the weiphted tension framed lever and roller
or bar therein, with the warp beam, as adescribed, for the pur pose of
producing teusion on the warp and friction Diminishing or increasing the pressure of the tension frame roller or bar, through the warp, ,pon the friction frame roller or bar by
the tension weight, for the purpose of relieving or holding the fric-
tion on the warp beam. 42,462.-Mode of attaching Single-trees.-Peter Con-
over, Frankiin, Ohio : Over, Franklin, Ohio
 said parts are all constructed and arranged
42,463.-Flour-packer.-Isaac Cook, St. Louis, Mo.:
 box, s, of the drivins shaft, constructed and
and for the purpose substantially as set forth.
[This invention consists in a flour-packer, the spout of which is made of wood, and provided at its bottom end with an auger cham ber and auger rotating on a vertical shaft in combination with a ri ing and falling barrel-platform, which is forced up by a weight and the strain exerted by this weight on the platform is regulated of a sliding weight and friction-briake, in such a manner that the lour throughout the whole barrel is compressed with uniform densiy bylthe automatic action of the packer.]
42,461.-Apparatus for disinfectling Vessels.-E. Hall I claim dis nitectung vessels, chambers, \&c., by forcing the bighly
heared air into and circu latlog it through them, substantially as
herein set forth.

42,465.-Capstan.-Henry Davies, Portsmouth, Ohio :
Cclaim the pair of rollers, A A, inclined obliquely from the per r claim the pair of rollers, A A, inclined obliquely from the per
pendicular in op posite directions, each of tbe said rollers being pro
vided with a sertes of parallel latitudinal V-shaped grooves, in the vided with a series of parallel latitudinal V -shaped groves, in the
described combination with the spindle, $\mathbf{C}$ whee, ${ }^{\text {, }}$, and cap, E, a
constructed, arranged, and operating in the manner and for the pu
poses herein specifled. 42,466.-Hay-loader.-Wm. H. Elliot, Plattsburgh, N. I claim, first, The employment of a crane in combination with Second, The employment of swinge cord, t, in comporination with a
hay-fork when said cord is attached to some fined point operated in the manner a nd forthe purpome herein set forth
Third, The employment of swing cord, $t$, and a hay fork in comThird, The employment of swing porpose herein shet forth.
bination a whith a crane the arm of which may be hay.
points, as and for the purpose herein specifled be lock certain points, as and for the purpose herein specifed.
Fourth, So constructing the locking devices that they will lock the
arm of the crane in certain position while the weight of the fork arm of the crane in certain position while the weight of the for
load is acting unon the swing, and will unlock the arm anc leave
at liberty to swng around freely, when there is no load upon th
a 42,467.-Stave-jointing Machine.-Felix A. Finn, New I claim the endless chain of beds, substantially as descr! ed, in
combination with the circular bevelling saw, substantially as and for combination with the circular bevelling saw, substantially as and for 42,468.-Self-acting Brake.-Willis Glaze, Rochester
Ind.:
I claim the combination of the hook, h, rods, M and K, projection
I, guides, e e, levers, L c cc, shaft, ch, chains, g g, and white-trees,
H, all constructed, and operating in the makner and for the purpose
specifled.
specimed.
This invention consistsin connecting the brake-bar with the whiffle ream of the vehicle, and also with the breast straps or neck yoke of the when the vehicle is passing down or over descending ground, or whenever the speed of the team is checked or "reined in," to stop or retard the movement of the vehicle; and the brakes instantly moved ar thrown off from the wheels whenever the draught power of the team is applied to the vehicle.]
42,469.-Apparatus for vaporizing Hydro-carbon Liquids for I claim the submerged perforated chamber, B, for the purpose of
more equally and quickly ditusilg the atmospheric air through the
whole of the liquid, substantially as and for the purpos I also claim in combination witt the subnerged perrorated cham
ber, B, the submerged plate, c, to prevent bubbling or agitation o ine lquid, substantially as described.
I also claim the interposition of a bright metal condensing plate, C, betwe en the iliq uidin the apparatus, and the regulator orequalizer
for the purpse or collecting and returning the impuritles and drip,
substantially as herein d escribed and represented. I also clalin in combination with a vaporiizing apparatus, a dome or
chamber located between the liquid hydro-carbon, and the lights or burners, said dome containing an elastic porous, substance that will contract and expa nd, under the varying Eurce of the passing volume
of rapor or vaporked alit troughtr, and thus act as an equalizer of
the flow of gaa substantially as de cribed. 42,470.-Smelting Furnace.-Eliphalet Hall, Moriah, N. Y.:
I claim, tirst, In combination with the furnace, A, the fuel depart
ent or oven, $B$, containing a feeding chain, $e$, he whole being con structed aved a B, containing a feeding chain, c, the whole being con
manged to operate substantlaily in the manner therei Second, In com bination with the oven, B, constructed with double
wals in the manner described, I claim the pipe. E, and tongue, E3 wallsite the manner described, Iclaim the pipe. E, and tongue, E3,
 a, by the employment of the tuyere, $\mathbf{E}$, and pipe, $\mathbf{F}^{\prime}$, substantially as
and for the purposes explained.
42,471.-Breech-loading Fire-arm.-George Hancock, Providence, R. I.:
I claim, first, So hanging the chamber block that it will pratially
rotate within the recess in the breech on a fixed pin passing through rotate within the recess in of breech on inded ination with the pe.
the lower central portion of said block in combination
culiar spring and wedge, n , substantially as described for the pur
Second, I claiun forming the breech-pin with a bevelled shoulder in
continuation with a bevelled surface at the bottom of the chamber continuation with a beyelced surface at the bottom of the chamber,
a spring, s, and a projecting nut, w, arranged substantially as de-
scribed to effect the purpose specifed.
42,472.-Skate-fastening. $\checkmark$ John Harrar, Philadelphia, claim the combination of a metallic cylinder, Fig. 3 , screwthread, $\mathrm{t} t$, notches, $v \mathrm{v}$, and cavity, c, which were employed instead of the
fiat plate, shown at Fig. 1, but having a ilike elongated aperture, d,
opening int theavit, will obtan for the said elongated aper
ture a more ready adjustment, graduation re somal, pening into theca vity, c, will obtain for the said elongated ape
ture a more ready adiostment, graduation removal, and require le
space, substantialy for the purpose describod.
42,473. - Crutch.-John Hartman, Jr., Philadelphia, Pa Ante-dated Dec. 22, 1863
I claim, frrst, Constructing and combining with the staff or frame to form a yielding and easy rest for the arm-pit, substantialls as de
Second, The combination of the tube, A, with the jaws, B B, by
means of the conlcal screws, C C, or their equivalent, substantially
42,474.-Apparatus for arranging and distributing Screw
Bianks.-H. A. Harvey, New York City
I claim an apparatus, substantially such as herein described, where
of blanks deposited in a pan nayy bearranged and forwarded or sup
plied to various machin for
 ially as herein set forth.
42,475.-Wood Screw.-H. A. A. Harvey, New York City : herein described,
Second, $A$ buibous-polnted screw with the thread prolecting un-
equally, so that its periph rry will occupy the same position that it scribed, a bulbous-pointed ratchet-headed screw, constructed and
 herein specified.
42,476.-Apparatus for arranging and distributing Screw
Blanks.-H. A. Harvey, New York City
I claim, frrst, A receptacle baving an inclined bottom composed of
a series of ribs in combination with a Bweep, the two being con
structed and operating substantially as described, and constitution structed and operating substantially as described, and constitutin
an arranging apparatus. Second, Ing claim in combination with an arranging apparatus, ope-
rating as described, a plate arranged as d escribed for discharging un arranged blankse and preventiting them as described for discharging un
tions of the apparatus, as specifled. Third, In combination with an arranging apparatus constructed
and operating substantially as described,
elapm an oscillating, re-
 pelling pawl and cams, the whole actlng as a combined contrivanc
substantially as set forth. Fubstantially as set forth
Firth, I claim in comb
 composed of inclined ribs in such manner, substantially as described that the Inclination thereof may be varied for the purposes described.
Seventh I claim in combination forwarding Fays, or a set or
series thereof, an oscillating, receiving, and distributing app aratus
for performing
fore set forth.
42,477.-Apparatus for arranging and distributing Screw Blanks.-H. A. Harvey, New York City : charalteristics substantially as of a pan having the distinguishing, with revolving sweeps,
operating substantially as described. opecand, The combination of a a pan and sweeps constituting an
Scranging apparatus operating substantially as set torth, with a rearanging apparatus operating substantially as set torth, with a re
ceiving and distributig apparatus having a mode of operation sub
tantially as herein described stantlally as herein described. peratian and dist Fourth, I claim an arranging mechanism for arranging screw
blanks in rows in combination with a distributing apparatus and a
set or serles of forwardimg ways when the combination operatessub tanta ange blanks and forward them to several machines, performing use 42,478. - Governor for Steam Engines.-J. L. Hastings
To wanda, Pa. To wanda, Pa .
I claim resting and supporting the wheel, pulley, or its equivalent
upon the belt that drives the governor, so that if said belt should nd its connected arm, will disengage the valve rod from the tover r, and thns aveod arm, will disengage the valve rod from the govern
as, herein deacribed. I also claim in in combination with the arm, g, and the connecting
rod, M, the chain, T, for moving the valve and clo: ming or partially
closing the ports when sald rod, M , is disconnected from the govern or for the purpose of stopping or checking the engine, substantiall
as described. 42,479.-Floor-cloth.-Samuel Hawksworth, Doncaster, Eng iand : the new manufacture of floor-cloth herein described, com
posed of abase fabric of consolidated fbrous material and of a sur-42,480.- Railroad Chair.-Wells Hendershott, Batavia I claim, first, Making a rait chair and cou pling for railroads, con
nected by a hinge or hinges at the bottom, with the inclined planes Incted by a hinge or hinges at the bottom, with the inclined planes,
b and ff, othat the pressure and weight of the cars will firmly
oold the rails, and when the weight is remaved the hold will be re haxed and allow the rails to expand and contract for the purposes d scribsd, and in the manner as substan tially set forth.
Second, I da the inclined planes in conbination with the hinge,
cor the purposes descr bed a nd as set forth. or the purposes descr bed a nd as set forth.
Third, Itaim the hinge conecting the two parts of the chair and
oupiring for the purposes described, and substantially as set forth. couping for the purposes described, and substantially as set orth.
Fourth, I claim the inclined planes for the purposes described and as set forth
Frifth, I claim in combination with said rail chair and coupling a
rail that may be turned over, with both the top and bottom sides Sixth, I claim in combination with said rail chair and coupling the
supporter for the mlddle of the rail, constructed in the manner and or the purposes described.
Seventh, Icasim the projections, d d, extending below the chair
ito the opening, c, in the bottom of the box upon which the chair
net rests, for the purposes described and substantially as set forth,
Eighth, I claim the box, a a, in which the chair or coupling is 42,481-Churn.-A. E. Hewett, Homer, N. Y.:
I claim the blades, b, attached to the shaft, a o oliquely in pairs
and provided with concentric curved slots, c, having their inner
ithes, $c^{\prime}$, inclined, and the upper and lower parts of the sides, c', inclined, and the upper and lower partsof the blades inav.
ing ham tered surfaces, de subtantiall as shown to form a new
and improved churn-dasher, as set and improved churn-dasher, as set forth.
I further claim the vertical ribs, i, at the inner side of the churn-
box, $A$ in combination with the Totary dasher, $B$, for the purpose box, A, in combination with the rotary dasher, B, for the purpos
set Fr , constructed and operating as above described. (This invention relates to a new and useful improvement in the dasher of the churn. which dasher is of the rotary spiral class. The nvention has for its object the forcing of the cream in a vertical current downward at or near the edges of the dasher, and upward a he side of the churn-box, the cream at the same time being preyented from rotating with the dasher, and caused to move outwan from the dasher shaft, where the dasher has but little effect, to th
edges of the dasher, the latter being also so constructed as to admit of being adapted to the weight of the cream in the churn, and capa le of being used with great advantage for gathering butter as well a for expeditiously producing the same from the cream.]
42,482.-Sheet Tobacco Press.-Edward Holbrook, Jr. Louisville, Ky.:
I claim, first, The movable walls, A A $A^{\prime}$, In combination with the
upper wau, And ner substantially as specifled. ${ }^{\text {and }}$, adated to ascend with the follower,
second, I claim the rolls, $G$, adapted
$A^{2}$ aud brace the walls, $A^{\prime} A^{\prime}$, substantialiy as and for the purpose set forth.
Third, I claim the combination of the follower, $A^{\prime 2}$, and receiver,
employed in connection with the press, $A^{\prime} A^{\prime} A^{\prime}$, as and for the purpose explained.
Fourth, I clalm the right and left, screws, CC, employed in connec-
tion with the crant, $D$, to open and close the walli, $A^{\prime} A^{\prime}$, as described. In combination with the follower, A2, I claim the self-adjust
Fifth. ing wheels or rollers, a, arranged and
cor the purpose set forth. 42,483.-Sheet Tobacco-cutter.-Edward Holbrook, Jr., Louisville, Ky.:
First I claim the combination with the kn ife, B, of the rolls, D, D
the Iatter being covered with felt or anal agous mater ial to adapit
he knife to be lubricated substantially as and for the purpose set
forth.
Second, $I$ claim the combination of the arms, $E$, crank wheels, $F$
wheel, $G$, and gearing $H$, $I$, constructed and arranged as herel wheel, , a, and gearing $H$, I, constructed and arranged as helse fin
hhown and described, and emploged to operate the kmite in the manner specified.
Thirdil claim the roll, $\mathbf{J}$, employed in connection with the roll, $\mathbf{K}$,
for feeding the tobacco to the action of the knife, substantially as set forth. In combination with the cutting apparatus, I claim the
Fourth,
cams, $M$, adapted to assist the feeding of the tobacco substantially as described.
Fifth, In combination with the table, A, I claim the wheels or cast-
ers, a, arranged and operating substantially as and for the purpose ers, a arr
specifed.
42,484.-Lump Tobacco-cutter.-Edward Holbrook, Jr. Lirst, cliaime the roil, c, provided with knives or cutter, $c$, and
and purpose specined.
Second. I claim the lubr cating of the knives, c , in manner substan
tally as herein deseribed and for the purpose forth.
 2,48, Holbrook 2,485.-Lump Tobacco
Jr., Louisville, Ky.: First, 1 claim forming tobacco shets boards or plates and pressing, substantially as set forth.
$\mathbf{A}^{\prime}$, arran, I claim a feeding table formed in two or more sections, A
fiterent heights substantially as and for the purpose explained. claim the wheels or rollers, a, in combination with the
table $A, A^{\prime}$, adapted for use substantially as and for the purposes described.
Fourth, In combination with the aforesald feeding table, I clalm one
or more adjustable gauges, E2, employed in the manner described to or more adjustable gauges, E , emplos.
regulate the introduction of the press.
42,486.-Wringing Machine.- E. S. Howell, Hope, N. J. 1 claim frrst, The two wedge, $\mathbf{C ,} \mathbf{C}$, placed one over the other con
nected wth a lever, F, arranged reatively with the roller,
with or witho purpose herein set forth,
second, The nprights $G$, beveled at their inner sides and con
nected to the frame of the frame of the machine as shown, in con
bination with the lever, $\mathbf{J}$, all arranged to operat
manner as and for the purpose herein set forth.
[This invention relates to certain improvements in that class of clothes-wringing machines in which pressure rollers are employed. The invention consists in a novel and improved means for graduat ing the pressure of the rollers, so that the machine may be readily dapted forwringing diff erent kinds of clothes, and it also consists in animproved means employed for securing the machine to the tub s hereinafter fully set forth.
42,487. -Stove.-Felix Hoyos, Paris, France. Patented in England, March 16, 1863:
I claim the herein described improved construction arrangement
nd operation of stoves or fire-grates whereby the air is caused to and operation of stove, or tire-grates whereby the arr is caused es-
descend and pass through the free therein and then upwards and escape through the centre of the stove thus effiectually consuming the
smoke and rendering the stove available for varioususeful purposes. 42,488.-Rake for Harvesters.-William H. H. Hunter, 2,488.-Rake for
I claim, frrst, The combination of screw M, and Nut, O , with shafts,
and K , by toggle joint in the manner and for the purpose herein
second, also the combination of the wrists with their springs, $N$,
N, nut, and tuburar rake head, P, arr nged and operativg with
the mectanism for triting the rake teeth, substantiaply as and for The purpose described.
Third, Also the com biation of the stirrup lever, $U$, with the auxil.
iary shaft $K^{\prime}$, slotted rest $A^{\prime}$, gears, $\mathrm{b}^{\prime}$, and gear wheels on shatts, J , ary shaft $\mathrm{K}^{\prime}$, slotted rest $\mathrm{A}^{\prime}$, gears, $\mathrm{b}^{\prime}$, and gear whe lis on shafts, J ,
K, arrangedconnected and operating as described for the purpose set
42,489.-Pipe Wrench.-John Charles Johnson, Oil City,
claimconstructing gas tongs substantially as described, by pivot-
the hok or movable jaws directly to a nut, screwed into the
ingthe hook or movable jaws directly to a a nut, screved, into the
hande, the upper part of which, above the nut forms the other jaws of the tongs.
Allo in combination with the gas tongs constructed as described in
the first claim, making the face of the jaw at the end of the handle nelined towards the point of the hook,
42,490.-Washing Machine.-Josee Johnson, New York City:
I claim the combination of two pounders, $E^{\prime}$, E2, and washboards,
e2, arranged to operate in combination with the vibrating frame e e, arranged to perate in combination with the vibrating frame,
c, and with a suitable tub or vessel, substantially in the man ner and
for the purpose herein set forth. 42,491.-Molding Artificial Teeth.-Henry D. Justi, Phildelphia, Pa.:
 I 1 also claim in combination with each of the said cavities, $c$, the tapering curved projection, e,
forth, for the purpose specifie
42,492.-Lamp.-Martin R. Kenyon, Providence, R. I.: holder, the thumb-piece or lifter, S, and the two coil spring, ,t when
the whiole are constructed arranged and used for the purpose and
eflect herein describedend eflect herein described a nd set forth.
42,493.-Brake Block for Car Brakes.-John P. Swan, Altoona, Pa.:
I claim the construction, arrangement and combination of the
block and shoe, with their devices, GEJ H and L , as constructed block and shoe, withe their devices, G E $\begin{aligned} & \text { arranged and combined for fastening more securely the the brake slod } \\ & \text { to the brake block and more easily replaci ng a worn-out shoe, as here- }\end{aligned}$ in described. $42,494 .-$ Rudder:-John Lewis, Elizabeth, N. J.:
I claim indse on each side of the rudder acting substantially in the Second, I claim wings attached by hinged or jointed arms for the
purposes specified. purposes
Third, I claim
the chains or ropes for the purposes specified. 42,495.-Rolling Angle Iron.-John L. Lewis, Pittsburg,
Pa.:
Iclaimso constructing rolls for rolling angle iron, as that the
"pile" constructing the fagot, shall be caughtbetween the rolls flat instead of cornerwise and so rolling a sthat one half of both sides or
wings shall rema in parallel with the face or top or the pile until very
nearly reduced to its proper thickness when wy passing it through a nearly reduced to oits proper thickness, when by passing it through a
plalur rectangular groovein said rolls, the wingsor sides shanl be turn-
ed up and finished with the grain conformabe to tbe layers of the ed up and fin
original bar.
[Th1s invention consists in the employment or use, in rollingangle in such a manner that the bar from which the angle iron is to be rolled can be introduced between the rollers flat instead of cornerwise, and both sides of the angle iron when finished, run parallel to case with one side of angle iron rolled in the ordinary manner.] 42,496.-Chimney Caps.-Thomas A. Mann, West Green I clime, Pa.:
as an article of manufacture. 42,497.-Preparing Mica for making Reflectors, Mirrors,
 it is coated with a metalic surface athering thareto, or the placing it
over any metallic'surface used for a retlector for the purpose of pro over any
tecting it
42,498.-Raking Attachment to Harvester s.-William G.
Merrell, Auburn, N. Y.:
I claim the combination of the slotted crank arm, S, bevel pinion,
T , and cam whecl, U , substantiall in the manner and for the pur poses described.
Ialso claim providing the cam wheel, U , with the legs, h , in com-
bination with the recess, i, in pinion, $T$, for the purpose of carrying that cam wheel over the dead points substantially in the manner and
for the purose
 substantially in the manner and for the purpose described
I al so claim securing the rake head, Z, to the rake arm,, , bV means
of pivot-oint plates $k$ and n, having circular bearings,, , and m, and
constructed and arranged substantially in the manner and for the
purpose described.
Iallugo claim the , w, on shaft, $W$, in combnation with the lip on
shaft $V$, substantially as and for the purpose set forth. I also claim the combination of the adijstable frame, $D$ with the
base plate, $C$, attached to the platform,, , in the manner shown and base potate, $C$, attached to the platform,
described and for the purposes set fortl
42,499.-Stovep-ipe Elbow.-J. F. Murdock, Wareham,
Mass.:
I claim the stove pipe elbow, B, B, made of cast iron substantially
as shown and described as a new article of manuf acture.
42,500.-Fruit Ladder.-A. W. Olds, Green Oak, Mich.:
I claim the compound braces, $\mathbf{F}$, in connection with the univer
 42,501.-Lime Kiln.-C. D. P’age, Grand Rapids, Mich.: IClaim the herein-described fire ellatinhrs, G G, with spiral fiues, caused to penetrafe everypart
and for the purpose spectred.
Second, I claim the drop slide, E, for discharging the burnt lime
stone, and keeping the cupola tightly closed when not being dis-
chared, the same being constructed, arranged and operating as and charged, the same being constructed, arranged and operating as an
for thie purpose specified.
Third, 42,502.-Sewing Machine.-Charles Parham, Philadel phia, Pa:
I claim, first, the looper, $u$, constructed and operating in connec-
tion with ibr needle and shuttle thead substantially as herein de-
scribed and represented to form a button-hole stitch.
I also claim a I also claim a gate or cut-off, placed in the race or the machine, for humng off te shu the from the needleloop, to prevent the iormer substantially as and for the purpose described.
I also claim the opening of the gate or cut-otf by the action of the
hook whilst it is closed by a separate mechanism substantlally as
I also claim in combination with the looper, the wheel, $\boldsymbol{z}$, with its
atchet and elevations and depressions for operating and holding at
Intervals said looper, substantially as described.
 I also claim in combination with the feed wheel and its pivoted
frame, the rod, $\mathbf{B}^{\prime}$, andspring, P , forgiving them their lateral and
adjustable movement or for suspending their movement substantially as described.
I also claim
I also claim in combination with the feed wheel and its pivoted
rame susceptible of a lateral movement towards and from the needle or selwing line, an independent mechanism such as describe
for turning said feed wheel at stated intervals, upon its purnals or turning said feed, whoel at stated intervals, upon its journals
axle to feed the material along substantially as described.
I also claim a rotary feed wheelthat has swo motions communicat I also claim a rotary feed wheelthat has two motions communicated
to it at one and the same time, viz, a rotary motion around its axis or it at one and the same time, viz, a rotary motion around its axis
and a laterally reciprocatingmotion around a apivoted point substantal a laterally reciprocating motion around a
Itly as a and for the purpose herein describe
It a
I also claim the arrangement of the peits, G, H, and double cam I,
so that there hlall be two actions of ,11ineedde to one action of the
lateral feed, and for netting the correct time and movements of the
lateral fced.
42,503.-Windwheel Pump.-Edward Pepple, New Car-
lisle. Ind. lisle. Ind.:
I, claim the combination and arrangement of the shat, $\mathbf{P}$, whecl,
$\mathbf{M}$, brake arm, $P$, and brake, $N$, in the manner and for the purpos I a arso cliaim the general arrangement of the pump and wind wheel,
substantially as described.
42,504.-Machine for cutting Tapering Forms.-Luther I claim the conicaltube, N. Fhen constructed with strengthening
and balancing bars, d in combination with the arrangement of the and balancing bars, d , in combination with the arrangement of the
feeding carri age, H and its holding devicc when construct ed to
operate as and of the purpose substantially as set forth. 42,505.-Sawing Machine.-Charles L. Pierce, Buffalo,

 carrying the shinge block to the saw, substantially as desc ibed.
Third, The dog, e, R, supported and operated upon the cross-piece,
H, for the purposes and substantially as set forth. 2,506.-Harvester James Pine Troy Iclaim, first, The two driving wheels, B D, or dificerent diameters able gearing withe shaft $C$, on said frame, substinntially as and ior
the purpose herein set forth. Second, The bar, $F$, and finger bar, J, connected together by a joint,
S, as shown and the former attached to the A, by a joint, f, in combination with the two driving wheels, $B$ D,
and the frame, A, all constructed and arranged in the manner and 42,507.-Ivory-covered Books.-Julius H. Pratt, New York City : Yoirk City :
I claim, first, Apply ing sempless or unbroken shicets or scyoll-cut
clamping binding, e e, subsers of books, in combinationn with the serbec..
Second, I claim the scroll-cutting and binding processes combined, substantially as aud for the purposes describe d. forth, of manufac turing seamless covers for books from scroll-cut ivory.
Fourth, Iclim as a new article of manufacture, an scamless scroll-
cut ivory covered book, substantially as described. 42,503. Apps for making Brush Hats.-J. C. Raake
Brooklyn, N. Y.: I claim a brushing mechanism ennstructed substantially as de-
seribed and operating in hot waterin the manner and for the purpose set forth.
42,509.-Pneumatic Railway.-Thomas Webster Ram-
mell, London, England. Patented in England on Feb. 10, 1860 :
I claim, first, $A$ pneumatic railway or tube in which the carriages
are placed inside the tunnel or tube, but are independent of the
tunncl or tube, and are wholly supported and in the are placed inside the tunnel or tube, bat are independent of the
tunnel or tube, and are wholly supported and in their motion arc
guided and directed by two or moreraits, grooves, or trams, and in guided and directed by two or more rails, grooves, or trams, and in
which the pneumatic pressure is applied over the whole or transverse
area or the carriage. Second, The contrivance for filling up with soft material thic space
between the interior of the tune
carriage as applied to pneumatic railways and tubes, as absove the decarriage as applied to pneumatic railways and tubes, as above de-
scribed.
Third, The use of several smaller or branch air passages leading into the the at at different points, either with or without self-acting valves, so as gradually to reduce the velocity of the carriage as ap
plied to pneumatic rallways and tubes, as above described. 42,510.-Fluted Ruffles.-Thomas Robjohn, New York City : I claim a fluted ruffe in which the fiutes are rotained in place with
out the use of an adhesion thread by pressing themm flat alone any any
portion of the width of the rufte, substantially as herein specificd. 42,511.-Stirruph-Oprus W. Saladée, Paducah, Ky.: I, claim the ectinination and arrangement of the stirrup, A, guard,
structed, arranged, Dand and shander operating in the the manerole hering constructed
specified
42,512.-Stirrup.-Cyrus W. Saladée, Paducah, Ky.: As a new article of manufacture I claim the egard, B, constructed,
operating, and attached substantially as set forth. 42,513.-Cultivator.-S. W. Slocumb \& E. Phillips, Ful ton City, Ill.
I claim, frst, The stirrups, h h, arranged as herein described and
 $F^{*} F^{\prime *}$, constructed and arranged as herein described, the chains
$\mathrm{a}^{\prime} \mathrm{a}^{\prime} \mathrm{a}^{*} \mathrm{~b} \mathrm{~b}^{\prime}$, eyebolts, $H^{\prime} I^{\prime} \mathbf{H}^{*} \mathbf{H}^{\prime *}$, and thumb-nut, a2, as and or the purpose set forth.
[This inventionlrelates to an improvement in that class of cultiva ras which straddle the rows and pass over the growing plants, the hovels being so arranged that they can be readily adjusted to cu pleasure.]
42,514.-Cultivator.-J. D. Smith, Peoria, Ill.:
Ir claim the combination of the frwiage swinging frame, $b$ b andards, $\bar{g} g$, (connected to rock-shafts, stop-ping, $p$, adjusting
chain, $n$, when the frane, $d$, with the shovels is entirely forward oo the axle of the frame b b, and the standards of the shovels are con-
nected together at their upper extended ends by an adjustable bar,
h, and operated by the single pivoted handle, C from the driver's eat; all in the manner and for the purpose hereln described.
Second, The arrangement of the rear wheeled frame,
cultivator frame, dron
ceat, A, shovels,
 Thing, The aring crops, as set forth.
in combination wit' the hingedforward shonection, frame, stop-pins, $p$ p $p$ the rea.
Wheeled frame, when the said frames are constructed and operated in the manner herein described, and all adapted for the fpurpose set
forth.
42,515.-Artificial Arm.-Ed ward Spellerberg, Philade I clairu, tirst. The described method of actuating the hand mechan-
ism by a pressure pad, attached to the nner side of the arm be
neath the shoulder joint, and deriving its action from pressure of the

Second. The employment of a bell crank, M, at the elbow-joint, for
transmitting motion from the pad to the hand mechanism and vice transmitting motion from the pad to the hand mechanism and viceshots, $m$, in the elbow-piece,, , the whole operating substantially in Third, I claim disconnecting the pressure pad from the hand me-
chanism by means of the latc, r, operating as described, or in any
manner equivalent thereta chanism by means of the latch, r, operating as deser
manner equivalent theieto, for the purpose set forth
42,516.-Exercising Machine.-Charles F. Taylor, New York City:
cauivaim the sliding bars, B B, connected with weights or their cquivalents to offer a resistance to the action of the feet of the
patient, in combination with couch or lounge, A, all arranged to
operate in the manner substantially as and for the purpose herein operate in
set torth.
42,517.-Lacing Shoes.-Charles F. Spencer, Rochester, I claim the combination of a lacing cord or cords, , , with bearings,
D, or equivalent, and the sides, C , of the siti,
D, of a shoe, said ngr, or cords passing alternately from side to side around the bear-
ong the slit by a single drawing action at the top, subngs, and closing the slit by a single drawing action at the top, sub-
I also claim the the set forthc I also claim the construction and arrangement of the stem, a,
sheare, b, and shoulders or flanges, $\mathrm{c} \mathrm{c}^{\prime}$, when the same are comsheare, b, and shoulders or flanges, c c, when the same are com-
bined with the leather, C , in such a manner as to allow the sheare a
free turning action, and to secure the device firmly to the leather, as 42,518.-Portable Piano-forte.-Maurice Vergnes. New York City : of a hammer throduch by the tone of a sonorous body by the stroke
Second, Attacling ty Second, Attaching the damper firmly, to the key in the maner de-42,519.-Car Splring.-Ulysses B. Vidal, Philadelphia,
Pa.: I Paini the arrangement of the pramidal springs, $\mathbf{B}$, $\mathbf{B}^{\prime}$, to stand
in alternate invarted positions, in tlie manner and for the purpose herean shown and described,
I also claim having one side of the box divited into as many separ-
ate inovable parts, $A^{\prime} A^{\prime \prime}$, as there are ties ot springs, as and for the ate inovable parts, $A^{\prime} A^{\prime}$, as there are tiers of springs, as and for the
purpose herein shown and described 42,520.-Lantern-guard.-Wm. Westlake, Milwaukie, I claim.: attaching the lantern-guard to the lantern so that as a
whole, and without any hingingo or separating of its parts, it may
readily and speedily be removed from the lantern, substantially as readily and wiphed
herein set forth.
42,521-Raking Attachment to Hirvesters.-Cyrenus I 1 claim in combination with a platform having a hinged connecG, and mounting it on plate, , r, rigidly connceted to the main frame, that the rake in sweeping across the platform shall follow its surface
and deliver the grain in the rear of the main frame, and in a posi
tion nearly at right angles to that in which it falls upon the platform sunstantially as as descritibed that in whe the falls upon the platform
I also claim in combination with the rake; spring, $Q_{\text {, and chain }}$
 tially as deseribed.
I also claim in combination with the catch-picce, b, for sustaining
the rake when elcated, the stop, Re, controlled by thie operator for
releasing ralse at pleasure, substantially as deccribed I also claim the combination and arrangement of the self-acting I also claim the combination and arrangement of the self-acting
devices for throwing the rake out of gear and stopping it in an eleva-
ted positicn, after removing the grain, substantialy as described. ted positicn, after removing the grain, substantially as described.
I also claim the combination or the device for stopping the move-
ments of the rake, with the devices for releasing the catch-picee, $\mathrm{b}^{\prime}$, ments of the rake, with the devices for releasing the catch-picce, ${ }^{\prime}$
which supports the rake when elevated and so arranged as to be un
der the control of the operator, substantially as described. 42,522.-Stove-cover Lifter.-Joseph P. Williams,Somer ville, Mass.:
claim the combination of the perforated insulator, c , with the claim the combination of the perforatec insulator, , with the
andle, B, and the prong, A, the same being arranged and construc
ced substantially as described. I alsoo claim the combination of the perforated insulator, $\mathbf{C}$, with the handle, $B$, the prong, A, and the shank or screw-rod, f, or it I also claim the prong as channelled or grooved, and made with
the lateral $\bullet$ pen ing or passage, the same being as explained. 42,52:3.- Device for operiting Blinds.-Oren Williams,
Governeur Governeur, N. Y.
claim the semispherical socket, a, provided with teeth, $a^{\prime}$, and the
 tached at one end to the that rod, on said sliart and the le lever, $\mathbf{H}, \mathbf{a}$
its opp osite end w, with a segment rack, $p$, with whind provided at gears the shaft, D. being conuected and disconnected and the pin
ond Gane connected with and dikconnected rirom the shaft, E, as shown
and all arranged to operate substautially as and for the purpose (This inve
(This invention consists in having the lever hinge of the blind formed of a semispherical socket provided with an internal gear into fitted in a tubular shait, the latter passing lorizontally through th jamb of the window-frame and having a pinion upon it whlch gear into a segment rack at one end of a lever, the latter being attached to the slat rod of the bind, and all arranged in such a manner that the blind may be opened and closed from the inner side of the win dow without ralsing the sash, and the blind slats also opened and closed.
42,524.-Photographic Camera.-Thomas E. Wood, BosI claim, Mass.:
 the ens or tub ein
notches, inserted in which dove-tailed notches are two vertical bars,
which said vertical bars are fastened at top and bottom to two horl zonta bars or pieces tongued, and inserted in grooves so as to wort
or slide freely, said bars and bard being so arraned as to be moved
by means of pinions and racks in a continuous vertical or horizonta by mean
42,525.-Friction Clutch.-James S. Brown, Pawtucket
R. I., assignor to Joseph R. Brown \& Lucian Sharpe

I claim the combination and arrangement of the segments, $\mathbf{E}$ E,
the segment
pulate D, and levers. GG, , with the we dge coilar, 42,526.-Locomotive and Furnace Grates.-Myron E. and Amy C. Hubbard), Buffalo, N. Y.: I claim the eprforated dumping plate in combination with the os
illating grate, when the elate is placed in tront of and transversely
o the grate, substantially as described and for the purposes set co the grate, subuth
forth. Charles B. Hardich (istiguor: to themselves and Albert B. Campbell), Brooklyn, N. Y.: We claim the arrangement of the levers, , link, $k$, and connecting
rod, m, to the crank of the fy-wheel shaft, for the purposes and as wecified, allo claim the boxes, 22 , fitted in and forced together by the
tapering jaws and confined by the screw, 8 , for the purposes and as
pecitied. 42,528.-Cider Press.-Orlando Clarke (assignor to himI claim the sectional curb or hoop, D, when fastened and released I claim the sectional curb or hoop, $D$, when fastened and released
by the eccentric, and constructed, arraned, and operating substan.
tialy in the manner and for the purpose described. $42,529 .-$ Preach-loading Fire-arm.-Jarvis Davis (as-
signor te Patrick Signor to Patrick smition the spring, A constructed and operating upondthe hinged
I cetaim
abutanent, $F$, substantially as herein described.

42,530--Relief Printing Plates.-Benjamin Day, Hobo-
ken, N. J., assignor to W. G. Lord, C. Ponomareff
$\&$ J. S. Talbot, New York City :

 42,531.-Machine for punching and cutting Metal.Nicholas de Telescherf, St. Petersburg, Russia, as-
signor to Ezar Jenks, London, England. British Patent dated Jan. 24, 1863:
I Claine the application to the construction of punching and cut-
ing maclinery, of the levers, ft, in combination with he side side bars,
 in set torth.
$42,532 .-\mathrm{H}$

## Harvester. - John H. Elward (assig nd W. H. Cushman), Ottawa, Ill.

ciaim the application Cushman), Ottawa, I1.:






 ner and for the purpose set forth. .



 42,533.-Fabric manufictured from Caoutchouc, \&c. oscar Falke and Philip Scrag, New York City, as-
signor to themselves and Thos. A. Jenckes, Provisignor to th
dence, R. I.



42,534.-Lamp.-Caleb Goodwin (assignor to himself

 Second, The combination and arrangement of the wivk tube, , ing substantiaily $a 3$ and for the purposes herenin desectibec.
42,535. -Portable Baker.-J. H. Jackson, U.S.A., assign 535.- - Portable Baker.- J. H. Jackson, U.S.A., assign
or to himself and Mahlon M. Wombaugh, Cincinnati Ohio


42,536.- Fountain Pen.- G. J. Nolty (assignor to himself
and D. Robertson), New York City :

 42,537.-Shoe-knife.-S. Richard (assignor to himself

 as set forth,
$42,58 .-$ Feal-water
Heater.-John R. R. Sees, New York City, assignor to W. F. Weaver, Philadelphia, Pa.
I claimim the ororugated diaphragm reed-water heater attactied in 42,539--Feed-water Heater for Locomotives.-John R.
Sees, New York City, assignor to Wm. F. Weaver, Sees, New Pork
Philadelphia, Pa.:
I claim surroundiny portions of the feed.-water heater with the an-
nular bands, as and tor the purposes herein set forth. 42,50.- Steam Gage. Jolnn R. Sees, New York City, as-
signor to Wm. F. Weaver, Pliladelphia, Pa. :





 42,512. - Precelh-loading. Fire-arin.--Isaic Smith (assign-
or to himself, C. B. Debaren and Jolin B. Morrell), New York City:


 [This invention conssists in a novel mode of applying asaifety bolt
in combination with the movable brecch-piece of a breecl-loading in combination with the movable brecch-piece of a breecli-loading
fire-arin, for the purpose of preventing the hammer ifrom coming fire-arn, for the purpose of preventins the hame
down and fring the cartridge while theibrech-piece is open. It also consistsin a certain novelarrangement of an extractor for extracting
discharged metalic cartridge shells from the barrel of a breechloading fire-arm, and certain novel and simple.means of operating loading fire
the same.]
42,543.-Fastening for Flasks or Molds.- Orrin H. Bur-
dick (assignor to himself and D. M. Osborne, Au
burn. N. X.:


Second, In combination with the two parts, Eand D, the recess in
the oneand tbeboresponding tongue in the other, substantilly as
and for the purpose descrive
 recess and the key or pin for loo king and hoiding to eet tere the ititer
ent parts of a fask, substantialy as and forthe purposes deseribed.
42,5 42,544. - Boot-leg Stiffener. - Nathaniel Gear, IndianapoI claim the appilication of jointed metallic bars or stificeners to the
legs or boots, so asto beep them up and prevent them from wrink-


Re-issues.
1,658.-Design for Back Combs.- Elias Brown (assignee Jan. 24,1860 :

 1,659.-Flour-packer.- Nathan Kinman, Cambria, N. Y. I claim, irst, Thepenacking of flour by means of inclined ilades or
spiral scrolls, substantiall in the manner and forthe purposes set

 Fourth, I:claim the self-acting clutch hin combination with the pack 1,660.-Eraser and Pencil-sharpene New Haven, Conn. Patented March 8 , 1859 . Re-
issue issued Aug. 30,1859


[This invention consists in giving to one side of the eraser a convex rorm in such a manner that the same can be conveniently used as a burnisher or polisher; it consists, further, in combining with this curved or waved eraser a pencil sharpener, by forming a cutting
edge on one or botll sides of the shank thereof. Andit consists, final edge on one or botl sides of the shank thereof. And it consists, final
ly, in the application to the surface of the blade or shank of the era ser of a serrated or roughened groove, for the purpose of tinishing the point of the pencil. or sharpening itafterthe wood has been cut a way.]
1,661.-Tooth-pick.-Benj. F. Sturtevant, Boston, Mass.


 positeends on each, rrom a abstantially as specified

DESIGN.
1,932.-Trade-mark.-Theodore Thurber, Auburn, N. Y


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ule the ollice, a marked degree of promptness, skiil, and fidelity to the
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to the oilice of Pustmaster-gencral of the United States. Soon atter entering upon his new duties, in Narch, 1859 , he addressed to us the
conluwing very sratitying letter: nony to the alle and eificicicnt mands mer in which pleasure to bear testi-
 narked a bility, and
ements respectfully, your obedient servant,
J. Holr.
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succeeded Mr. Hott as Commissioner of Patents. Upon resigning the
ottice he wrote to us as follows:

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skill and accuracy.
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