Corn-cutting Machine.-This invention relates to a new and improved machine for cutting up standing corn stalks on the field, and consists in the employ. ment of a rotary cutter wheel fitted within a swinging frame which is provided with an adjustable weight, in combination with a supplemental swinging frame which is connected to the swinging cutter frame, both of the swinging frames being suspended within a frame mounted on wheels. The invention also consists in the employment of gathering.hooks in connection with springs ; and further, in the employment of a windlass attached to the main frame of the machine, for the purpose of raising the swinging frames, and elevating the rotary cutter above the surface of the ground when said cutter is not required for use ; as, for instance, in drawing the machine from place to place, in turning the same, frc. G. W. Cole, of Canton, Ill., is the inventor of this improvement.

Hemp Machine.-This machine relates to an improvement in that class of hemp machines which are principally used for the purpose of dressing the leaves of the agave Americana, and other plants of a similar nature. The invention consists in the employment of a cone drum carrying a series of combs and working within or under a cone cap, in such a manner that by the gradually increasing speed of the surface of the cone, from the small to the large end of the same, the leaves are caused to roll over the entire surface of the several combs, and the fiber is completely cleaned and discharged from the machine without difficulty; the invention consists, further, in the employment of combs with teeth of gradually increasing fineness, from the small toward the large end of the cone pulley, for the purpose of producing the best possible action of said combs on the fiber ; and the invention consists finally, in giving to the feed rollersan oblique position in relation to the main shaft of the drum, in such a manner that, by the action of said rollers, the leaves are forced from one ond of the drum toward the other, and the fibers are prevented from being retained in the same teeth of the combs, from beginning to end of the combing operation. George Ehrsam, of 76 Elm street, New York, is the inventor of this improvement.
Machine for cutting and boring Rock.-Heretofore the boring of rock has been generally accomplished by the use of a chisel, punch, or boring bar operated by percussion. This invention consistsin a boring tool composed of a series of diamonds attached to an annular or tubular stock or crown of steel or other metal, to which a rotary and a direct forward motion are given, and which is thereby caused to cut or bore an annular groove or hole, leaving a central core or kernel which is easily detached by the subsequent operation of a gad or wedge, the quantity of matter required to be removed by such boring tool being very small in proportion to the cavity which is formed after the withdrawal of the said kernel or core. The advantage of this boring tool is, that it may be operated with a small amount of power, is expeditious in its action, and its wear is almost imperceptible in operating upon the hardest substances. J. R. Leschot, of Paris, France, is the inventor of this implement.

Wagon pole Check-arrester.-Almost every person has noticed the annoyance and distress experienced by horses when drawing a wagon over rough and uneven roads, occasioned by the incessant twitching and jerking of the pole laterally; this occurs, especially, when the wheels suddenly descend into gullies, or strike abruptly against stones or ridges in the roadthe sudden vibrations of the pole jerking the horses first in one direction, then in another, galling their necks, and sometimes producing strain almost sufficient to throw them off their feet. This invention seems well adapted for obviating such difficulties. It consists in applying a spring to each hold-back chain or strap, which is arranged in such a manner that the chains or straps may perform their usual functions, and still be capable of yielding sufficiently to prevent, or ease, in a great measure, the violent jerking of the draught pole. The invention is simple, and easily attached to any harness, and we have heard it recommended in high terms by those who have used it. James McNamee, of Easton, Pa., is the inventor of this device.
Punching Machine.-This invention consists in the combination of two punches with the same driving
mechaniem, in such manner that they may be adjusted at different distances apart, to provide for the punching of plates of various widths at opposite edges simultaneously. It also consists in theemployment, in combination with two such punches, of an intermittently moving carriage, so arranged as to present the plate to be punched to both punches, in such manner as to cause the punching of the holes in both edges of the plate at the required distance apart. It also consists in certain means of moving the plate carriage in different curves, for the purpose of punch. ing the holes in curved lines, to suit the curvature of the edges of the plates required in making a boiler in conical sections. And it further consists in certain means of producing a variable feed of the carriage H. W. Bill, of Cuyahoga Falls, Ohio, is the inventor of this improvement.


SSUED FROM THE UNITED STATES PATENT OFFICE fot ter weri ending joly 14, 1863.
*** Pamphlets containing the Patent Laws and fall particalars of the mode of applying for Letters Patent, specifying size of model required, and much other information aseful to inventors, may be had gratis by addressing MUNN \& CO., Publishers of the Scientifio Ambrican, New York.

39,206.-Screw-driver-J. A. Agres, Hartford, Conn.
 ached or removable bit or turn-screw, $D$, su bstantalily as set forth.
Siecond, Having the bit or turn.serew, $\mathbf{D}$, provided with two prongs,
 the prongs will be thrown out of line with each other by screwing up
the sei sere $\begin{aligned} & \text { ch, made } \\ & \text { tially bind herenn described. }\end{aligned}$ in the siot, $f$, of the screw, substanThird, The reversible bit or turn-screw, D, provided at one end with
he two elastic or ylelding prongs.b b, and at the other end with the he two elastic or ylelding prongsib b , and at the other end $w$
ordnary turn-screw, a, so that elther may be used as desired.
[This invention consists in tbe employment of a bit or turn-screw and a shank, constructed and arranged in such a manner that the bit r turn-screw may be readily and firmly secured in the shank, and the he screw, so that the of being firmly secured or held ine wood, and screwed into it without the application of the hands to the screw. The bit is soconstructed and arranged as to be reversible, one end belng formed in the ordinary way, or like a common screw.driver or arn-screw, and the other end being constructed in a novel way so as to bind in the slot of the screw.]
39,207.-- Sewing Machine.-C. W. Baldwin, Boston, Mass.:
 each other and with the loops or lower needl.
scribed and for the purpose herein set forth.
39,208.-Bottle-stopper.-Chas. F. Baxter, Boston. Mass. Ante-dated Jan. 16, 1863
I clatm. first, an elastic siopper, baving a bollow or carity opening
to the end entering the bottle, substantiallg as shown and described.
Second I claim the combination of a stopper baring said carity
opening into the end entering the botlle, b, and shoulder or enlargeopening Into the end entering the bottle, , , and shoulder or enlarge-
ment, c, substantially as shown and described. Third, I also claim the cumbination of a stopper baving ald cavity
in the end described, and shoulder or enlargement, with a bottle hav-39,209.-Punching Machine.-H. W. Bill,Cuyahoga Falls, Ohio
claim, first, The combination of two punches with the same drivIng mechanism, in such manner that they may be adjusted at different distances apart, to provide for the punching of plates of various
widths at opposite edges or in two lines simultaneously, substantlally as hereln dessribed.
as hereln described.
second The employment. In combination with two punches ajjingt.
able at different distances apart, of an intermiltently-moving carrlage, able at different distances apart, of an intermilt tently-moving carfinge,
so arranged as to present the plate to both punches in sue manner
as ocause the punch ing of the ho les in both edges of the plate, or in arranged as 0 pre sent the plate lo both punches in such manner
co cause the punch ing of the holes in both edges of the palate, or in
o rows at a desired distance apart, substantially as herein specifed. as described, for guldlng the movement of the plate carriage in
stralght or curved lines, as may be described, of a variable system of siraigh or curved ines, as may be described, of a variable system of
gulde rollers operating in combination with astralght or curved rack,
or a straight or curved groove or its equivalent, on or in the carriage, substanitialy as herelin set forth.
Fourth, The employment for producing a varlable feed movement of theplatecerriage, of a rack wrta radlating teeth, as shownin figure
6, and a laterally movabie paw operating in combination with such rack, substantially as berejo spedfe
39,210.--Apparatus for tempering Umbrella Ribs.-A. 8. Black, New York City
I claim, frst, constructing the tempering die with a square hole,
corresponding In ize to the
wire to be tempered, in or or Wire may be straighteued in alrairections, and the fiattened portions
of the wire be brought on line with each other, as and for the purposes speciferd.
Secend, I claim constructing the tempering die with grooves in
one of the haif pieces coming opposite the fai surface of the other nal of the haif pieces coming opposite the flat surface of the other
half pherey the tempering dies are more easily made and kept In order, as set iorth.
Third, Icmpering the dies, constructed substantially as speci-
fed, and inclosed in a suitable casing in combination with gas burners, applied substantililly as shown, whereby the temperature of the
sild tempering dies is easily regulated and maintained with uniformi-
ty, as set forth.
39,211.-Skid for discharging and loading Vessels.-Robert Bragg, San Francisco, Cal.:
I clatm the construction and application of the circular arc, B, as
attached to the skid, $\boldsymbol{A}$, operating substantially as described and for
the purposes set forth herein.

39,212- Washing Machine.-A. G. Brown,Lima, Ohio: I claim the combination of a atationary washing tub with a reclp vooalung washing board under
39,213.-Manufacture of Alkaline Carbonates.-Lasslo Chandor, New York City :
I claim, frst, The formatlon of the carbonates of potash and soda by the transsirmation of the e ulphurets of potas fum and sodium into
blarbonates of the same bases, by the process and substantially in he manner described.
Second, The manufacture of the sulphuret of sodium by the de Second, The manufacture of the sulphuret of sodlum by the de-
composition of the sulphuret of barlum, substantially in the manner Third, The manufacture or production, by the process described, of the sulphate and carbonate of bary ta.
Fourth, The use of limesfor the $p$

## 39,214.-Corn-stalk Cutter.-G. W. Cole, Canton, Ill. :


 set forth. The adjustable bar or weight, I, applied to the frame, $\mathbf{E}$,
Second,
substantially as shown and used in connection with the curved rod, J, staple, $f^{\prime}$ ' and pin, $b$, or an equivalent fastening, for the purpos

 39,215.-Machine for loading Hay.-Gorden Constable, Canonsville, N. Y. :
I claim the sliding endless rakes, E E, In the framing, A. In com.
bination with the pinlons, do on the axie, $D$, of the wheels, $B$, ail
 bars, 11 , arranged substantially as shown, when said roller is used in
combination with the endless rakes, $Q A$, and the wagon, for the purpose specified.
I
furtherclaim placing the rake, $Q$, In a vertically adjustable frame P, arranged as shown, to admit of the adjustment of said rake rela
tively with the groun, as sel forth, and also for the purpose of ren dering it operative, as described.
[The object of this inventlon is to obtain a machine by which bay may be raked up from the field, and deposited upon a wagon as the
latter is drawn along, all the working parts being operated from the raction wheels of the machine.]
39,216.-Projectile for Rifled Ordnance.-H. E. Dimick St. Louis, Mo.
I claim the construction and shape of the steel and wrought-Iron
front in combination ${ }^{\text {Ith }}$ the lead and cast-Iron portion, as arranged
 cribed.
39,217.-Buckle.-Frank Douglas, Norwich, Conn.
I clalm the swinging frame, $A$, In combin ation with the stationary
loop, $e$, socket, $B$, and tongue, $D$, substantisily as herein specified. 39,218.-Defensive Armor for Marine and other Bat-teries.-J. B. Eads, St. Louis, Mo.:
I claim the employment of the angle-Iron bars, g . In combination
with the armor plate $\mathrm{B}, \mathrm{E}$, and dowel pins, f , constructed and arranged with the armor plates, E, snd dowel ping, f, fonstructed and arranged
as herein described and represented, for eecuring the armor of war. as herein described a id
vessees, ${ }^{\text {and making a sysem }}$
in set forth and represented.
39,219.-Hemp Machine.-George Ehrsam, New York City:
First. Iciaim the employment or nse of a conical drum, A, carrying
series of combs, F and working withn or under a cone cap, G, In
andiner and for the purpose substantially as berein shown and
 Second, Discharging the clean fibers over the large end of the cone
drum, A, through the open alde of the cap, $G$, in the manner and for
them urpose substantaily as specifed. Third, Making the teeth of the combs, F, of gradually-Increasing Fourth, Givlng to the feed rollers an oblique position in relation to
the mann shaft of the drum, substantially as and for the purpose
specifled. specified
39,220.-Machine for dressing Chair Backs.-S. L. Fitts, Ashburnham, Mass.
 tion with the pressure rollers, $M$ al and the rotary cutter, $N$, all ar-
ranged as and for the purpose specifed.
Second, The arrangement and comblination of the shatt, $\mathbf{X}$, provided
 for the purpose herein set forth.
[This invention consists in the employment of a reiprocating segment carrlage placed on an adjustable bed, In connection with a rotary and vibrating cutter head and pressure rollers, all arranged to effect the desired end.]
39,221--Beehive-W. A. Flanders, Shelby, Ohio I claim, first, The semicircular comb frames, A, in combination fed.
Second, I claim ine sand board, E Which forms a partition betw een
the combframesand boney boxes above, co astructed as and for the purpose set forth.
Third, I claim the moth traps, $F$, in combination with the adjusta-
ble botiom board, $G$ arranged and operating in the manner and for be object dearcibed.
Fourranged Ithe Ilaim the adjustable front entrance, $H$, in combination
with the moth box, $I$, arranged and operating as specifed. 39,224.-Adding Machine.-G. B. Fowler, Chicago, Ill. :
 the underside of the slldes, $B$, and with said slides, strips, C, and
caps, $D D^{\prime}$, in the mannerand for the purpose herein shown and decaps,
scribed.
[An engraving and full descriptlon of this invention will be pubPll
39,223.-Lock and Bolt.-E.O. Brink and C. E. McDonald, We claim, frst, The tolt.
erated substantially as set forth Second, The knob, 88 , when the same is constructed and operated substantially as set forth.
Third, The ann iarplate, E. and the bent wire, b b
are constructed and operated sibstantially as set forih, or say same
 k, other wise subsiantially as set forth. No. same is constructedand op id, or any other sub
 When
Seventh, The shank, $A A^{\prime}$, of the said knob, $8 \mathbf{s}$, when the same is constructed and applied substantially as set forth.
Elghth, The said fle-faced tumbler, 11 , wten the same is constructed andoperated substantlally as set forth.
Ninth, The Blot, $z$, of the said escutcheon tube, when constructed
 operate
same.
39,224.-Carriage Spring.-C. B. Galentine, Brooklyn
I claim the application of a self-adjuating triangular brace to land
carriages, in such a manaer as corseln the parts of the springs and
heir atachments in their proper relations, and thus to secure tito carriages,
thelr atiachments in their proper relations, and thus to secure the
parts from undue strain or breaking by the motions of the carriage.

39,225--Churn.- Samuel Gissenger, Alleghany City, Pa. ned in connection with a churn, and operated in the manner and by
the means deacribed, and for the purpose set forth. 39,226.-Molding-machine Feed.-Lyman Gould, Nor
 pendentor the other, by the use of the crank gorews, M and $\bar{K}$, b,
which the rolls are ulited on any requrted angle from a horizontal

 ents for holding, gulding, and glving presgure to the rolls, substan onvenient frame tor use in the manuer and for the purposes herein
specifed. specified. The arrangement of the boxes, D D DD, the spring, G, and
Third,
the rods, N, N, siding in the slots, $P$, to adjust themselves to any position of the rolls.
9,227.-Manufacture of Illuminating Gas.-W.H. Gwynne White Plains, $\mathrm{N} . \mathrm{Y}$.
 39,228.-Cut-off Valve Gear for Steam Engines.-J. F. Hamilton, Pittsburgh, Pa.
claim the arrangement of the regulating arms, $h$, liners, i, spring,
frames, $m$ and $c$, arms or levers, $\}$ and $n$, when used in connection frames, mandc, arms or levers, o and n, when used in connection
with the governor and rock shan or ecentric of angine, the whole deing arranged, constructed and opera,
39,229.-Variable Cut-off Valve Gear for Steam Engines J. F. Hamilton, Pittsburgh, Pa.
 onnection with a povernor and rocks shaf tor eccentric of engines, the
whole being arranged constructed and operating substantially ae herein described, and for the purpose set forth
39, 230.-Baling Press.-J Jacob Harder, Lock Haven, Pa. 1 claim operating the follower, B, through the medium of the lever rod, C, by a joint, the pintle, f, of which works in sinuous grooves
d, between racks, $c$, arranged one above and the other below in
follower [Thisinvention consists in operating the follower of a press bor LThis invention consists in operating the follower of a press box
hrough the medium of two double racks with a sinuous groove be tween them, in connection with a lever provided with two sliding pawls, arranged with springs and connected to the outer end of the follower rod by a hinge or joint, the pintle of which works in the inuous groove between the two racks, all being so. arranged that a ood leverage power is obtained, and one that may be operated wit facility.]
39,231.-Fence.-H. G. Hood, Harlan, Ind.
 $s$ herein shown and detcribed.
[This invention relates to an improved fence of that class whichar designed for temporary erection, or to be readily put up and taken down, and are commonly termed portable fences. The invention onsists in a novel and improved means employed for receiving th retaining it in a vertical position.]
39,232.-Breech-loading Fire-arm.-C. W. Howard, Hammonton, N. J.
esses at each end of the charge cyllindor, C, with counteraunk recribed, sacthat said cye charge chamber, as herein shown and de
e loaded with cartridges at either end of of the chamber, all as one set in in may fort tig. claim the combination of the oscillating ratchet bar, $k$, lever,
I, and rod, h, with the hammer, $F$, and the ratchet wheel, $t_{1}$ in the
manner herein shown and deseribed. [This invention consists in the construction of a fire-arm with a ver lical cylinder having a single chamber extending directly through it tright angles to its verical axis, and so arranged within a suitable right or the barrel, chat, by turning it to bring its chamber thengles to the line of the barrel, it may be loaded al each end of the chamber alternately, and by theact of loading at each end, the archarged case or shellof the previously-inserted cartridge may be in miso consists in a certala mode of ccm biningsuch cylinder with the hammer of the fire-arm, whereby it is
rought to the posilion forloading when the hammer is at half cock and for firing when the hammer is at full-cock.]
39,233.-Machine for making Cement Pipes.-John How arth, Salem, Mass.:
t claim riranng the exterior of the pipe, and holding and sustaining Also in combingation with the two lateral rollers operating upon the
pipe as described, I claim the top or third roller, i, for the purpose pecitied.
39,234.-Grain Binder.-Josiah Judevine \& Zebulon Shaw Roxbury, Wis.:
We claim the arrangement of the gatherer. B, with spring jaws, d,
pinitur, , segmental cog-wheel, b, and crank, c, in combination with pintin, a, egegmentai cog-wheel, b, and crank, c, in combination with and operating in the manner
herein shown aud described.
[The object of this invention is to produce a grain binder, which will enable two men to complete the binding of the grain as fast as the platform of the reaper to the gatherer of the grain binder, and the other to operate the different parts of the binder.]
39,235.-Tool for Boring Rock.-Rodolphe Leschot, Paris,

39,236.-Device for preventing Retrograde Motion in Sew
ing Machines.-Wm. F. Lewis, Watertown, Conn
and Joseph H. Baird, Waterbury, Conn.
 friction lever, $F$, provided with a pawl, d, constructed, arranged, and
operating substantially as described, and for the purposes set forth. 39,237.-Hose or Tubing.-Thomas J. Mayall, Roxbury
Mass.:
In clam forming a hose or tubing, by first eaturating or incorvorat.
ing threads or strands of fibrous materials, rubber or gutia-perchas, or ing threads or strands of fibrous materials, rubber or gutis-percha, or
compounds of ether or botb, and then weaving or braiding the same
snbsisntil substantially as set forth.
39,238.-Man facture of Elastic Hose or Tubing.-Thomas J. Mayall, Roxbury, Mass.:

I claim a hose or tubing, in which the periphery of one or more of
Ita layers is formed by wealing or braiding uponan inner tube or
Ining, an outer tube made of twine, wire, or other strands or threada ?ubstantially as set forth.
39,239.-Chain Link.-James Packer, New York City : I olaim a ohain link, A, made of two parts, , C C, united by two
swo els, $D$, in the mand er and for the purpose, substantlally as
shown and deacribed.
anc anted by twoswiveld, which screw $n$ the ends of the parts of the link in such a manner that in case an ordinary link of a chain reaks while the same is stretched and in use, one part. of any link an be slipped into one, and the other part into the other link adjoin ag the broken link of the chain, and by drawing the tio parting e strain to which the same had been subjected previous to the part ngof the link.]
39,240.-Amalgamator.-August F. W. Partz, Wartsboro' I claim. first, A current of mercury moving over a horizontal or clined surface, uponwhich suriferous or argen tiferous orea, or sub-
tanees in a dry pulverulent state are distributed, to effect their amalgation as apecified amalgamating gold and silver with mercury, by In a thin strata over an inclined metallic plate or trongh the surface of which is amalgamated with nerciry, the down-flow ing mercury
belng drawn away from below the surface aithe delivery end of the
said plate or trung. and re-elevated to the higher end thereof, subaid plate or trung

Fourth, I claim agitating the tailings by means of rotating or oscillin $x$ stirrers or bauches, in combination with amalgamating machines in which the mercury flows in a thin strata over an inclined plate, in
order that the sald rail ngs may be easily removed, and the mercury
be allowed to freely return to the point of beginning, substantially as Eif forth, $\dot{I}$ claim distributing auriferous or argentiferous ores, or subtrances in a dry satate upon a moving sheet of mercury (for the pur-
pose of effecting their amalgamation), by means of vibrating sieves 39,241.-Straw Cutter.-John G. Perry, South Kingston, R. I.:

I claim, first, The cylinders provided with alternating knives, and
rojections, 3 , when constructed as described, and for the purpose set
orth. forth. $\begin{aligned} & \text { Second, I claim a straw cutter having two or more of said cylin- } \\ & \text { ders, constructed as deacribed, and working in combination in the }\end{aligned}$ manner and for the purgose set for
Third, I claim attaching the rolls

## pose set forth.

39,242.-Hay Cutter.-John G. Perry, South Kingston, Ante-dated May 13, 1863 :
claim. first, The combination of the adjusting screw,
S , and hars,
, gears, 8econd, I claim the comblnation of the lock with here hay torth
ubstantially as herein described, and for the purpose set forth.
39,243.-Meat Cutter.-John G. Perry, South Kington R. I.

I claim the combination of the sloted plate,, $\mathbf{S ,}$ with the knives,
x , substantially as herein descrived, and for the purposes set forth 39,244.-Sausage Stuffer.-John G. Perry, South Kingston, R. I.:
I claim the combination of the cam, $D$, and plate, $L$, substantially
39,245.-Water Elevator.-Stephen Puffer \& Andrew J
3,245.-Water Elevator.-St
Sands, 2d, Oxford, N. Y.:
We claim the longitudinally Bliding, self. detachable crank, $H$, when
arranged and oombined with the toothed coupling wheel, $G$, of the windlas8 shaft, c, substantially in the manner and for the purpose We also claim the self-detachable sliding crank, H, the toothed
 When ald parts are arranged and combined with exck apparatus,
antially in the manner and for the purpose herein set forth. 39,246.-Breech-loading Fire-arm.-Westley Richards Birmingham, England :
I claim the combination of the binged cover and lever, c, carrying
the silding block, d, and tis projectlon, d2, and pivoted or yieliding plug, e, with the chamber, b, and its aperture, bl in the manner sa
39,247.-Skate.-Jacob Frederick Schneider, Brooklyn,
I claim, frst, The forked runner substantially as described
Second, The wheel in combination with the forks of the forked run ner, substantially as described.
Third, I claim securing the
means of the wires, $f$, and jogs in the recesses, g , in the manner
specified.
39,248.-Paddle Wheel.-Francis B. Scott, Buffalo, N. Y.: ngle thereto, the arms being hinged to the wheel near the pumping hereof, and geared by an eccentric, whi ch is supported by the boat
 and recedes, for the purposes set forth sup shown in the drawings. 39,249.-Raking Attachment to Harvesters.-Benjamin
Smith, Batavia, Ill.:
In combination with a rake that is operated by a crooked-necked
crank, and a flexible or ball and socket connection, and rolled up upon a guide.piece, F, a self.connecting and disconnecting catch,
that holds the rake up at certin in intervals, and allows it to drop upon
the platform, when about to clear it of the cut grain, substantially as he plat form, when about to
described and represented.
39,250.-Sad Iron.-Nathaniel Waterman, Boston, Mass. I claim an improved smoothing or sad iron, as made not only with
round heel and a plane surtace botom and a pointed or angular oe, but with the sides making an angle with the bottom, and with
he top or upper surface rounded at and above the toe and the heel, and both longitudinally and lated ally. in mane maner as os gh
companying drawings, and substautialiy as deacribed.
39,251.-Machine for Collecting Amalgam and Mercury I claim the tub I ciaim the tub, A, provided with the concave bottom, a, and cham
ber, , in combination with the rotating pads, $L$, as and for the pur
pose specified. If further claim in combination with the pads, $L$, concave bottoms
and chamber, b, of the tub, $A$, the tubular shaf. $H$, and arms, $k$, 39,252.-Machine for turning Umbrella Hooks or Han. dles.- Henry Winter, Honesdale, Pa.:
nd with a center opening that is flaring or trumpet mouthed cutter side, for dr sesing curveesor hook son umbrella sticks and other articles,
and ubstanilaly asspeciem
Second
 Third, I cisi to the adjusta ble fence, $k$ in combinatio
volving cutter-bead, $e$, tor the purpose and as specifed.
39, 253.-Hinged Collar for Lsmps-George F. J. Col-
burn, Newark, N. J., assignor to Lemuel Beers, New town, Conn.:
the lamp top, $t$, and neck, $n$, opening to a limited extent to afford di rectaccess to the reservoir below the burner, and held in its open
position by the weight of the chimney, all as herein shown and ex
plained. The combination of the
Becond, Thed and operating as specified.
ranged and
[Thisinvention is designed to obviate the necessity of displacing al or any of the fixtures of a kerosene lamp, in order to replenish the onin the reservolr. By a very simple and cheap contrivance appilica be introduced, even withont extinguishing the light. An illustration

39,254.-Explosive Shells for Ordnance.-Thomas Harding, Springfield, Ohio, assignor to Thompson D. Hart I cla im, the combination of the grooved heads, A and B, tall-piece,
C, stem, D, channber, E, and flanged segments, F, when
are consiructed and arranged as herein described, for the purpose set are co
forth.
39,255.-Hice Cleaner.-Lucius D. Hawkins, San Francisco, Cal., assignor to Alfred Peabody, Salem, Mass.: I claim the construction of the wire cloth covered frames, E, in
two ormore parts, and madeadjustable substantially as set forlh for
the purpose specilied. 39,256.-Sewing Machine.-LLeander W. Langdon (as-
signor to himself and Daniel G. Littlefield), Northampton, Mass.
I claim, first, Combining with the mechanism which gives the feed-
ing motion to the feeder, $I$ a reversing lever, $j$, or its equivalent, by ing motion ot the feeder. I, a reversing lever, j, or it it equivalent, by
means of which the direction of the feeding motion of the feder
may be reversed, or the length of the stitches adjusted substantially may be reversed, or the length of the stitches adjusted substandialy as described.
Second, Combing with the mechanism which gires the feeding
motion to the feeder; the catch lever, e , or its equivalent; wiperatiog
 Third, Inparting the vertical or thaging and ditengaging motion
to the feder, by means of the hook, 1 , substantially as described. 39,257.-Refining Ore.-John L. Constable, New York City :
claim refining ores by the use of super-heated steam in a furnace, And I Ialos claim the gage covered wheel, revolving partially in water,
the manner and for the purpose specified. 39,258.-Hay Press.-Levi Dederick, Albany, N. Y.: I claim the arrangement and combination of the follower, with its
beams projecting throggh the sides or the press, and the toggle levers ocated and operating a the sides of the press, substantialif as and
or the purposes herein specifed. 39,259-P Pomp--Birdsill Holly, Lockport, N. Y.:
e e, or equivalent, and with one side, f, made provider with the ribs,
for the purpose of retaining said support in place in the other,
inder, uthatentisily as herenn set furth.
Second, In combination with the support, B, and its valve, C. I also
claim the thin raised valve seat, d , arranged substantially as described. I also claim the inclıned, inductive valve, C, so formed that
when thped for the admisaion of the water. fis upper gurface will
assume a horizontal position, or approximately so, substantially as assume a horizontal position, or approximately so, substantially as
herein set forth. Fourth In combination with the induction valve, $\mathbf{C}, \mathrm{I}$ also claim
the eduction valve, $\mathbf{E}$, provided with a sien, $r$, and the pistou, $\mathrm{D}, \mathrm{ar}$ Fith, I also claim the arrangement and comb G, and nut, Pr, substantially as and for the purpose, E , the piston rod, 39,260.-Hold-back for Wagons.-James McNamee, Easton, Pa.:
 structed and arranged as herein specified, and the whole employed an
described, to arrest sudden lateral motions of the forward end of the 39,261.-Marking Brand.-Gcorge H. Strong, Buffalo, N. Y.:

I claim making the brand in two pieces, when one of the pieces is
provided with tlanges or proicctiong, betwen which the other peece
may be slid and then held fist by screwing in the bandle, as herein 39,262.-Grain Separator.-Henry B. Thomas, Cascade, Iowa: one perforate, and the outer covered with wire-gage or tis equivalent
forseararating different graing, substantially in the manner and for
the purpose ber in set iorth. 39,263.-Dog Power.-Franklin Cole, Conesus, N. Y., as signor to Wm. P. Hendershott, Groveland, N. Y.:
 or the purpose herein set forth.
I claima also the peculiar arrangement of the friction wheels, $\mathrm{N}^{2} \mathrm{~N}^{\prime}$ prejections, M $M$, upon an incilined revorving, platiform, $A$, substan

39,264.-Hay Loader.-Cyrus B. Garlinghouse \& John 1 claim
 Second, Connecting the floating or self-adjusting carrier of a hay
 ections to inequalities of the ground withont affecting its conThird, Combination with the self.ad justing or filating hay carrier,
of fingers, $F$, variable in their pressure upon the ground, substanFourthe In the described combination with carrier, I $J$, and fingers,
Fi or their equivalentis, we claim the provision of reci procating rakes,
$W^{\prime}$, adapted and operaulng substantill 39,265.-Transpare
partial substitute for Glass.-Christoph Nussegger
(assignor to himself and Moritz Pinner), New York City:
 arth a ransparent coating or coatings, all substantially as herein set

## REISSUES.

1,511.-Machine for gathering Hay.-F. F. Fowler, Crane I claim, firat, Connecting the side and cross.pieces of the machine hine may rise or fall in yielding io the inequalties of the ground ind ependent of the otber side, substantially as discribed.
Second, I alao clatin constructing and combining the fing act as runners and supporters, and muiually aid and be aided by, the
 finger bar, and the flexibly connected runu ers, so that as the maching
i raised behind, mat moll down in fronton the curve of the runners
or the purpose ot dumping or discharging the load, substantially as
herein deccribed 1,512.-Car and Truck Connection.-Josiah J. Sherman, I claim, firit, The emplogment or ure of balls, E, or rubbers. $F^{\prime}$,
interposed between the trucks and the car body, in suitable boxes, when the said parts are constructed and combined. in the manner her ein specified, so as to permit fres motion of the car body 1 nteraly
n either direction, and afterwards restore it automatically to $i$ its norSecond, The combination of the annular springs, g, with the bear-
ings, ef $\mathrm{g} i \mathrm{i}$, or any of them, when arranged to operate in the
 restrain or quallfy their actlon, substantially in' the manner herein
set forth.

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