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34,124-John Baldwin, Jr., of Berea, Ohio, for an Improvement in Machines for Making Grindstones

 34,125.-Alfred Bliss, of New York City, for an Improvement in Lamps
 pose set forth.
34,126.-Freeman Brady, Jr., and J. C. Noble, of Wash ington, Pa., for an Improvement in Magazine Gun :
 34,127.-W. C. Bridges, of Philadelphia, Pa., for an Improvement in Optical Telegraphs
I claim the tube, B, withits lens sadid one or more adjustable mirrors,
 34,128.-Moses Chandler, of East Corinth, Maine, for an





 described.
CThe object of this invention is to obtain an implement of simple construction which may be adjusted so as to furrow land for planting
either in hills or drills, and form the furrows at a greater or less distance apart, and at greater or less depth, as may be desired; the imple ment also being designed to be capable of covering seed in the drills of an uniform depth, and of any desired depth, and also to hoe and hill up growing crops.]
34,129.-Edwin Clark, of Lancester, Pa., for an Improve ment in Flouring and Grist Mills


 lion, $\mathbf{O}$, and set set screw, $P$, in
$\mathbf{Y}$, substantially as specifiod.
34,130.-Edwin Clark, of Lancaster, Pa., for an Improve ment in Alarm Indicator for Grist and Flouring Mills moving part of the emill gearing, a governor, and an alarm apparatus, by which any rariation trom the propero or previously-regulated veloc,
ity of he buhr or burs, for god griding will be brou ghto the notice

 its reguated or desired dellocity, or an se variation therefrom, whether
greater or less, substantially as described. 34,131.-W. F. Cochrane, of Springfield, Ohio, for an Im provement in Grain Thrashers and Separators I claim, first, Locating the driving gear upon the base of the machine

 Fourth, Pivoting the combined stand to themain frame, susstantiall
 Sorthib, Driving the thrashing cylinder direculy from both ends of the
countershaft, and independently of the separating mechanism, as de-
 pend ently of each other by means of pulteys on each end of the coun 34,132.-W. F. Cochrane, of Springfield, Ohio, for an ImIrovement in Grain Thrashers and Separa tors.
 cal plane within the main frame, for the purposes set forth.
Second. The combination of the driving gear and thrashin

34,133.-W. E. Cochrane, of Springfield, Ohio, for an Im provement in Grain Thrashers and Separators I claidm, frrst, A creeping cloth arranged transversely across the ma-
chine to convey the winnowed grain directly from the vibrating sho

 ing shoe, with an adjustable or independent frame, substantaily
described.
34,134.-J. H. Dennis, of Lonisville, Ky., for an Improve ment in Running Gear of Railroad Cars:

 connection to the adjacent ends of the satid axles.
cond, The combination of the wick, $H$, tube, I , andclampingsorew

L, employed substantially in the manner explained to supply the jour-
nals automatically with oil, and control the flow thereof as may be re quired.
[This invention is an improvement in mounting and running diviaed axles. The inner journals have their bearings in a compound journal stantly latoricated to any extent required by an ingenious automat device.
34,135.-J. H. Dennis, of Louisville, Ky., for an Improve ment in Railroad Turn Tables
while pe rmitted to turn freely in one or the

the postict or this invention is to enable the driver readily to revers or seat.]
34,136.-J. H. Dennis, of Louisville, Ky., for an Improve ment in Omnibus Springs: ubstantially as and for the purposes explained.
[ This invention consistsin an improved construction and combin tion of springs and supporting bars, affording strength, durability ease and quietness of motion, and liliewise reducing the weight and cost or construction of the carriage..
34,137.-Joseph Edgecomb, of Worcester, Mass., for a Improvement in Boring Machines
I claim, first, Constructing frame $F$, in curved form, and so as to ex
tend around the flan ees
d 0 of frame tend around the fan ges, d , of frame, D , to reduce friction and affor
auflicient space for the free operation of the rack a nd gearing, substan
liall tially as deseribed.
Second The com
Secend, The combination of the curved hinged rack piece, $M$, and
gear, with frames, $\mathbf{D}$ and $F$, substantially as and for the purpose Tirrd, The combination with the top of frame, D. and rack piece,
M, or the cap piece, N. and its siotted tubular projection, m , and ite

 | frame, $\begin{array}{l}\text { F, and the parts } \\ \text { the purposes set forth. }\end{array}$ |
| :--- |

34,138. -James $\ddagger$ itten, of Cavendish, Vt., for an Improvement in Carding Engines
I claim the arrangeenent and combination of the apron with the mechanism preeeding the main card cylinder, in such ap manner tha
the apron shall extend under the said mechanism for the purpose de
seribe
34,139.-W.W. Flenniken, of Colony, Iowa, for an Improved Water Wheel :
I claim ha wing the bucketg, , of the wheel, $\mathbf{F}$, connected at their
a ter en ds and ower part, soas to form a continious rim all around he wheel, while the upper end of the buckets are detached. whe

[This invention relates to an improvement in that class of wate wheels which are commonly termed " center vent," and are placed on vertical shaft within a scroll. The object of the invention is to pre with the top and bottom of the scroll.]
34,140,-H. B. Goodyear, of New Haven, Conn., for an Improvement in Gaiters
I claim, as a new article of manufacture, a gatter wholly or in part
elas ticu made of vulcanized india rubber, or of its elastic conmpound, or ts equivalent, and backed bv a knit web' or other textile tensible fatric, hally in the manner set forth.
34,141.-William Graichen and C. Hoffman, of Clinton,
Mass., for an Improvement in Power Looms :
I claim, frst, The grids, A A', constructed whit projections, a a. in
front of the lower parts of their dents, b b, applied in guides forme in, or upon, or attached to the lay and baving a rising and lalling mo
ion, substantialy as and for the purpose Second, Operating the fo-constructed gridd by means of a rock-shar
B, arms, e eg, a gring, f, and a fixed stud h, the whole applied, ar ranged and com bined substantially as specified
combined with the horizontally moving lever, $H$, which netson the bel connect by means of a bent lever, $G$, attached $E$, substantially as specifed. Fourth, The positive stop motion composed of the stop piece,, , on
the lever, $H$, the rod, $T$, the spring, $Y$, the lever, $S$, and stop wheel, $Q$. and spring, $Z$, the whole arranged, combined and operating substant
34,142.-J. J. Haley, of South Dedhan, Mass., for Im proved Rollers for Wringing Machines :
I claim my improved roller, made substantially as described.
34,143.-E. C. Hamlin, of Pavilion, N. Y., for an Improve ment in Car Coupling:
I claim the ermplovment in self-couplers for cars, of a link with a cir
cular head a nd slot, us deecribud, in combination with the adjusin circle, G a and follower, F . Also the combination and arrangement of
the ajjustable clamping yoke, y and pin, p , with the lever, R , and 34,144.-Adam Hawver and W. H. Hanyen, of Galva, Ill.
I claim the dapher, D, staff, E, concave, C. inclined bottom, B, parti-
ion, d , circular flange, e, and section, g , when combined, arranged I claim the dasher, D, staffi, E, concave, C. inclined bottom
tion, cd, crrcular fange, e, and section, ghen combined
and operating in the manner and for the purpose set forth.
fThis invention relates to that class of churns in which a reciprocat bing to beling the w

34,145.-Josiah Hayden, of Columbus, Ohio, for an Im
provement in Water Elevators
 for the purposes set forth.
34,146.-James Jenkins, of Elizabeth, N. J., and G. H.
Method of Working Silicious N. J., for an Improved
Method of Working Silicious and other Calamine Ores
of Zinc
 for separating the silica and other earthyimpurities, from the ininc
contanned in she silicious and other calamine ores of this metal, in the manner substantially as set for
working in the common way
34,147.-Henry Isham, of New Britain, Conn., for an Im provement in Water Meters
I claim combining two or more water meters, substantially as de
scribed, by means of a compound valve, or the equivalent thereof, scribed, by means or a compound valve, or the equivalent ther eof, sub
standilly as described, and ope rated by the force of the passing water
as set forth
34,148.-R. A. Hooe, of Washington, D. C., for an Improve ment in Tobacco Pipes :
I claim making the body of a pipe of three main divisions, to wit,
removable tobacco chamber having a perforated metallic base, and metal sides: a smoke-circ ulating chamber and a saliga reservoir open-
ing frombelow, the whole being eons tructed, arranged and combined
substantially in the manner and for the purpose described I also claim the main division, A, in combination with the main
division, B, the two divisionsbeing united in the manner and for the
34,149.-Charles Leavitt, of Cleveland, Ohio, for an Im provement in Carriage Wheels
claim so dividing the two parts of the hu
depressions and projections, having their longitudinal faces bounded
radial lines from the center of the axle, and flling tha altern ate spacee
and e, with spnkes, in such a manner that each spoke shall have in a and e, with spnkes, in such a manner that each spoke shall have in
part a metullic bearing upon each side, flilig the enire space with part a metullic bearing upon each side, filling the entire space with
spokes as decribed. In combination with the concave face of ${ }^{\text {Fand }}$ and
convex face of $G$; the nut, $H$, and cap, $K$, operating as and for the pur. convex face of
pose set forth
34,150.-James Leffel, of Springfield, Ohio, for an Improved Water Wheel :
I claim, frst, The com
cuckets a and b a poses set forth, arranged in relation to each other as and for the pur Second, The co mbination and a rrangement or the parts mentioned
in the above clian $m$ with the vaive or , gates, $H$, and the wheel casing
 with its casing, valves and the means for operating the same, as seen
in Figs. land , when said parts are constructed and arranged to oper
ate in relation to each other, as set forth R=
34,151.-R. F. Loper, of Philadelphia, Pa., for Improved means for Covering and Repairing Iron Ships and other Navigable Vessels:
I claim the planking of old iron boats or second-hand vessels, as set
forth, whereby a safe and goo vesel or boot can be madd out of any
iron vessel orbo at, after the iro a has become thin by wear or rust, us
described.
34,152.-J. W. Mackintire, of Woburn, Mass., for Improve ment in Stalls for Horses : oor, c, and the rack, E, applied and made to operate together, sub Itantialy in the manner set forth.
also claim the $V$-shaped rack, arranged and made to operate in the 34,153. -B. A. Mason, of Newport, R. I., for Improvement in Casting Projectiles for Firearms
I claim the reciprocating dies and plunger, substanially as describod na comination with the bopper, provided with the spring stops of
equivalent means for holding up the slug of lead, until $\dot{2}$ is acted upon
by the plunger, as set forth 34,154.-Robert McCain, of Rootestown, Ohio, for Improvement in Feed Cutters
I claim the detachable box, $\mathbf{Y}$, in combination with the feed and cut
ing apparatus, arranged as and for the purpose set forth. 34,155.-Thomas McDonough, of Middletown, Conn., for Improved Hot- Air Engine
I claim, first, A plunger, containing a pison and chamber, and Socond, The bowl, $D$, upon the end of the plunger, substantially as
Secong a
described. Third, The connection of the piston and fyy wheels by side rods, in
Tombination with the open plunger, substantially as described. 34,156.-Marvin Mead. of Bedford, Michigan, for Improvement in Tire-Upsetting Machines :
I claim the employment of the concave abjustable clamps, $F$ F, necting rodse c, aud rest, a, the clamps being convected to the levers,
Do by means or, ball joint, and their ends beng formed so as 10 lap or
joint on the outside of the tire, us and for thepurpose specified.

34,157.-Martin Metcalf, of Grand Rapids, Mich., for Im provement in Comb Frames for Bee Hives
I claim constructing the top bar, A, and slde bars, B of adjustalle rames for beetives,
sciibed, when used in
ngular box or hive. 34,158.-Freedom Monroe, of Romeo, Mich., for Improve-
ment in Machines for Filling Wagon Ruts on HighWays:
I claim the frame work which stands upon the ground, the posts each side, the bench and wheels on top, the post and lever, the pulley and
cord, the platform. hhe driver's seat, and the post passing up through
he same, the hooks, ba nd and straps round the axletree in combina.

34,159.-William Morehouse, of Buffalo, N. Y., for Im provement in Spoke-Tenon Augers
I claim, broadly, A center-siding plug, which performs the double Second, A graduated center-siditiug plug, in combination with a tuThird, Atubular Aeeve, carrying and a suri ounding tubular socket compressible spring, a steady pin, and a surrounding socket, substan
Fourth, I claima knife blocks and guide blocks, having scolloped inner
ends, as described, in combination with a graduated center sliding plug, and tubular sleeve, as described.
Fith, Iclaim making the shank, c, and steady pin, $f$, in one piece,
and confined to the socket, A, bv an intermediate screw body, which abut against.
34,160.-Charles Monson, of New Haven, Conn., for Im proved ExtensionTable :
I claim the improved extension table, as constructed with two leaves, B, combined with the stand, c , by means, and so as to operate sub
stantially as gececifed.
And And in conibination with the leaves and stand, when made and ap
plid together, as described, I claim the finishing bars or strips, FF
obe arranged in manner and for the purpose, substantially as set
orth. to be ar
forth.
34,161

4,161.-Francis Murgatroyd, of Cleveland, Ohio, for Improvement in Oscillating Steam Engines :
pen two partsto st cam, a nd $t$ wo to exhaust atthe same time. Second, I claim the valve, figure 7 , in combination with the revers-
ing lever, 0 ,', by means of which the engine can be reversed at pleat ure, as specififed. 34,162.-Charles Neer, of Albany, N. Y., for Improvement
in Metallic Blinds for Windows, in Metallic Blinds for Windows, \&C.:
I claim, first, The strips, c, bent or folded, ashown, and aplied to
he iron blind frame, composed of the vertical stiles, a a, united to each , he parts receiving he blind slats, as set forth.
Second, $I$ claim the metallic slats, e e, attached at their lower cor
the Sers, and provided with the disk, 5 , and spring, 6 , for the purposes
ner Third, I claim the bars, h. hinged to the blind frame, as set for th, so
that they can be turned against the slats to keep them shut, as specified 34,163.-A.M. Peniston, of Wellington, Missouri, for Im provement in Seeding Machines :
I clalm the arrangement and combination
 , as and for the purposes set forth.
4,164.-W. S. Sampson, of New York City, for Improve I claim forming the bins of a granary for storing grain in bulk, of
 4,165.-John B. Sardy of New York City, for Improved Construction of Ships of War and other Navigable Vessels
I claim the combination of two or more stern posts, a a, two or more int the same vertical plaue, constructed and operating in the manne and for the purpose described, in order that greater buoyancy, spee
 I also claim thepointed prow, taperdin all
s hull, as before described. 34,166.-John Schaffer and Edward Spencer, of St. Louis, Mo., for Hand Printing Press:
We olam making a hand stamping press, substantisily in the man
or described so as to stemp and pert nor desoribed, so as to stemp and periorate the ticket, ink the form
and fupply the ink to the ink ing roller, in a single operation, substan
tialif in the manner set forth.

34,167.-J. A. Schneider, of Cleveland, Ohio, for Improve ment in Truss Pads

 jnitable, , as an to cau
liguely, as set forth.
34,168.-H. C. Small, of East Limington, Maine, for Combined Writing Case and Checker Board
 manufacture
The object of this invention is to combine a writing case and checker board in such manner that the latter shall occupy but comparatively little room in the former, which, beside, has apartments for pens, ink, postage stamps and checkers in one part, and for envelopes, penholders and pencil in another part; the checker board, when removed from the writing case answering either for gamesorfor a writing desk, and the whole, when packed, bronght into such small compass as to be 34,169.- D. C. Smith, of Adrian, Mich., for Improvement
in Stump Extractors:
I claim the combination with a tackle, block and rope of a bearn, A
with ashore, $B$, aud shoe, $D$, attached theretn, the whole beingmount ed on two wheels and axle, as described, for the purposes set forth and descrbed. I claim the combination of the shivers, F F F, for the pur-
Second,
pose of alowing the team to draw at any angle, as described.
Third $I$ claim the eombinaton with the chaln Il
 34,170 . John Taggart, of Roxbury, Mass., for Improvement in Pegging Machines

## I claim the combination of the back-latching mechanism, or stud, 1 , and spring catch, $m$, and its unlatching mechanism, or iever, $b$, and

 and spring catch, m, and its uniatching mechanism, or iever, b, andcord, or, with the hammer and the pegdriver.
r claiminy im proved la sing mechanism, havingits parts constructed and applie
described.
I alsoc claim the combination of the eccentrics,
b2, the lever, a2, and thair poclaimen, the combis applitiod to of the shafce, c2, and each side of the last-
ing block, and tis heel and toe clamps, as described. 34,171.-Nicholas Taliaferro, of Augusta, Ky., for Improvement in Revolving Ordnance
 Whole belng combined and operating, substantially as set forth.
second, The screw-threaded bush,
and radanted
remoral from the the rear end of the bore of a breech-loading cannin,
 nion, C , contined wit hin a a socket, $D$, and resting
step,
E , all substantially as shown and explained
step, E, all subst antignly as shown and explained.
Fourth, The described application of water, pan, $\mathbf{\text { in }}$
lower portion of the revolviug breech, NO N, as set forth.
34,172.-S. D. Tuipp, of Stoneham, Mass., for Improve-
ment in Mactines for Cutting Welts for Boots and
Shoes: Shoes:
First,, claim the employment or use, in connection with the feed
rollers, $C$, of a cutter, $L$, arranged and connected with the yielding rolers, C D, of a cutter, L, arranged and connected with the yielding
roller, D, in ssich manner as to be turned or adjusted automaticeall by
the yielding movement of said roller, substantially as aud for the pur-
pose set forth Second, Forming the cutting edge of the cutter,' $L$, by means of the
basils, $f^{\prime} f^{\prime \prime}$, which are respectively above, below, and at both sides of the cutter, as and tor the purpose specified.
Thirr, Havilig the shafl, $\mathbf{E}$, of the lower roller, $\mathbf{D}$, itted in a tube, $\mathbf{F}$,
which is connected by a bar, d, with a rock shaft, $\mathbf{G}$, and acted upon by which is connected by a bar, d, with a rock shaft, $G$, and acted upon by
a spring, $H$, when said parts are used In conection with the cutter,
L, connected with the shaft, $G$, and all arranged as and for the purpose set forth
34,173.-J. E. Van Winkle and Joshua Mason, of Patter-
son, N. J., for Improvement in Water Mon son, N. J., for Improvement in Water Meters :
We claitm the combination of the stationary, partitioned, slotied, hol-
low receeving and dischargng a xis, B, with hece ocllating water box,
A, substantially in the manner shown and described, so that the water will enter, operate and manner discharged from described, the the that the water box, through the said axis, all as set forth. The combination of the air
connecting pipe D with the compartments, a $a^{\prime}$, substantialiy as and
for the purpose shown and described. 34,174.-CC. P. S. Wardwell, of Lake Village, N. H., for
Improved Planing Machine: Improved Planing Machine
I claim the hinged bed plates, $L$ L arranged and operating substan-
tially in the manner and for the purposes specified. I also claim the gages, $D$ D, adjustable on and in combination with
the bed plates, $L$, substantiall as described. the bed plates, $L$ L, substantially as described.
I also claim the combination of the adjustable edging saws $G$ G $G$, with
the hinged bed plates, $L L$, and adjustable gages, $D$, substantilly the hinged bed plates, $L$ L, and adjustable gages, D $D$, substantially
as and for the purpose set orth.
I anso laim he hembination of the vertically-adjustable bed, $E$, and
hinged bed plates, $L \mathbf{L}$, with the cutter head, $W$, substantially as specitied.
I also clatm the combination of the doubly-adiustable guides, $A A_{\text {a }}$,
with he hinged bed plates, $L$, adjustable edging saws, $G$, $G$, and

 and for the purpose specified.
I also clainimithe combination and arrangement of the sliding bars,
O and their rnclined projections, $n$ n, and connecting lever, $P$, With G O. and their nnclined projections, n n, and connecthg lever, P, with
the inclined projections, oo, on the bottom of the hinged bed plates,
L L, operating substantlally as and for the purpose set torth. I also claim the combination of the two curved pressure and fender
plates, $X$, mounted respectively on hinged arms, r $r$ and $w$, and
drawn down by springs, $v$, with the cutter head, $W$, substantially as specified.
34,175 .-Dyer Williams, of Syracuse, N. Y., for Improvement in Locomotive Axles :
I claim the improvement of locomotive engines, by the employment
of a crank axle, constructed in the manner and for the purposes set
torth forth.
34,176 .-W. W. Wilson, of Collins Station, Ill., for Improvement in Corn Planters :
rods, a, conducting tubes, w, edjustable piows, I, standards, $\mathrm{J} J$, guides,
 ru, This invention relates to that class of machines which form the fur ow, deposik ing whereby the implement is made to work with unerring accuracy, and adapted to plant to any desired depth.]
34,177.J.F. Winslow, of Troy, N. Y., for Improved Machine for Compressing Puddle Balls:
I claim the combination of the steam cyllnder, $F$, the ram or hammer, R, the cam wheel, $\mathbf{C}$, with eac
he purpose described and set forth.
34,178.-A. M. Bailey and J. O. Couch (assignors to The
Metropolitan Washing Machine Co.), of Middlefield, Conn., for Improved Clothes Wringer
We claim in clo thes-wringing machines haring rollera, A B, geared
together at one e nd by gear wheels, M $N$, constructing and arrancing oget her at one end by gear wheels, M N, constructing and arranifing
the spring or spring, and the stop; $H$, or its equivalent, substantlally
31,179.-J. W. Barker and J. P. Haskin, of Syracuse, N. Y., for Improvement in Purifying Common Salt :

named salts in saturated brine, as se
34,180.-Ralph Emerson, Jr., and F. Graham (assignors to Ralph Emerson, Jr.), of Rockford, ill., for Improvement in Mowing Machines
We clalm the combination of the bent axle, c , and hand lever, $G$,
 34,181.- Ralph Emerson, Jr., and F. Graham (assignors to Ralph Emerson, Jr.) of Rockford, Ill., for Improvement in Harvesters
 he whole are arranged for jofnt operation, substantially in the manner
 y in the manger to which the We also claim fastenigg the guards to the upper part onlj of the
finger beam bent as described, in combination wwth the shoulders upon
the shanks of the fingers, substantially in the manner described. 34,182.-Marks Fishel (assignor to himself and Adolph Opper and Leo. Popper), of N
I claim securing the hoops, A A, to the tapes, $\mathbf{B} \mathbf{B}$, by means of fastenings, $D$, or their equivalents, passing througb tbe eylets, C C, and
across a portion of the tape between them, substantially as and for
the purpo the purposes set forth.
34,183 . J. H. Linville (assignor to himself and L. J. Piper), of Altona, Pa., for Improvement in Iron Truss Bridges :
I claim, arst T
I claim, arst, The construction of the lower chords of truss bridges
of series of wide and thin drilled eve bars, C C, applited on tween ribs, $\mathbf{S}$ S, on the bottoms of the poots and connected oy pins,
$P$, supported in the diagonal tension braces, $D$ D and $E$, all substan-
tiall tially ag described.
Secnnd, The posts, OALOA L, composed each of two wrought iron plates or bars, a a, distance pi, composed each of two wrought rivets, J, or their
equivalents, and cast-iron braces, $L \mathrm{~L}$, and captals, $\mathbf{O}$ O, the whole equivalents, and cast-
[This invention consists in a novel construction of the lower chords and mode of applying the same, in combination with the posts and wroughts of the truss. Also in a novel construction of the posts of 34,184.-M. P. Norton (assignor to himself and Charles
Eddy \& Co.), of Troy, N. Y., for Hand Stamp for Post Eddy \&
Offices :
I claim the combination of four celinders, a b $c$ d, upon the s haft, $c$ With the stat ionary form of type, D D, whereby the day, month and and set forth.
I also claim the combination of the shart, C. With four cylinders, a
b c d, thereon arranged, with the frame, B, whereby the sald cylinders
are and set forth. 34,185.-Allen Walton \& J. L. Kite (assignors to Allen Walton), of Philadelphia, Pa., for Improvement in Process of Manufacturing Iluminating Gas.
We claim injecting a steady and continuous stream of air into a refor the purgose set forth.
$34,186 .-J$ ohn Powers and E. M. Smith (assignors to J. S. Mitchell), of New York City, for Improvement in Harvesters
We claim, frst, The attaching of the fingor bar, A, to the main frame,
G, of che machine by means of the bar, D D, conected by joints, a
 Second, The use of guard finger $h$ aving backs, $h$ and edges, $k$, , ex.
tending continuously along the bar so as to present closed surfaces in rront a nd beneath, and formed with chanes or grooves, i, extending
beneath the sick bar and partially around the bolt holes, i, and open at back to permit the ready escaape of molsture, dirt, gum or trash
which may work underneath the sickle bar. Which may work underneath the stckle bar
Third, Having the bar, N which forms a portion of the lifuling or ele-
rating mechanism of the finger bar, A, fited loosely underneath the
main frame, $H$ to admit of longitudinal nlay of sald bar for the pur. pose of allow
as set forth.
1,257. American Flask and Cap Co., of Waterbury, Conn. assignees of Charles Hicks, of Caps. Patented Feb. 17, 1857 : y any suitable means, and a plate. A, or terforated at at distances to cor
and other material to a number of caps simultaneously.
Second, The combination of a framme, $c^{\prime}$ co cearrying a number of wires or rods, b b, or their equivalents, to ta ke upt the varnioh, a trough,
E, to contain the varnish and sultable gutde above the said trongh to
recelve a plate which carries the caps, the whole being constructed and receive a plate which carries the caps, the whole being constructed and
operating together substantially as described.
Third, The plate. H Hontaining holes corresponding in number and
arrangement with' the wiresor rods, b b, or their equivalents, arranged arrangement with the wiresor rods, b b, or their equivalents, arranged
relatively to the trough, $F$, the vertically-morng frame, o $c^{\prime}$ c", and
the guides, $G$, substantially as described for the purpose set forth. [This important invention lure of percussion caps, by applying, simultaneously to a large number, the adhesive material by which the fulminate is secured within

1,258.-J. H. Dennis, of Louisville, Ky., for Improved Mode of Collecting Fares on Street Railway Cars. Patented Dec. 17, 1861
I clatm as an improvemnent in street railroad cars the combination of
the platformaless rear, either without a door or wrth one for exit only,
with with the platiorm and door in front, whereby all persons entering the
car, belng compelled to pass the driver, he can, withoutinconvenience,
rt as enllector or oversee the depast of their fares,
IFhis invention, as the claim explains, dspenses with the necessity without inconvenience to himself or the cars, by enabling the driver, withou
lector.
1,259.-Harrison Kalbach and Mary Andrews (acting ex
ville ${ }^{\text {a }}$ A
Wheels. Patented August 30, 1859 :
We claim, first, The curved concave buckets haring curved or eccen-
rically-formed tops and bottoms, as described.
Second, In combinations with the buekets curved as describe, the Secol water way or chamber underneath them, arranged within a' box,
spiral spiral water way or chamber underneath
A, substantially as shown and described.
The nature of this invention relates to the peculiar construction of the buckets of a horizontal water wheel, by means of which a greater effect of the water is obtained than in wheels used heretofore. It also relates to a spiral water way or chamber, in connection with the buck-

Student's Draftsman and Artisan's Mandal. By B. E. Warren, C. E., Professor of Descriptive Geometry in
the Rensselaer Polytechnic Institute, Troy, N. Y. Published by John Wiley, No. 56 Walker Street, this city. This is a manual of elementary geometrical drawing, designed tor
various schoolis, and selfinstruction to mechances and oinhers.
It em
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Elementary Structural Drawing. The lessons are 1 Ilustrated with a
great number ot excellent platea, and the instructions to great number ot excellent plates, and the instructions for stone, wood
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rieal drawings.

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