7,049.-Lewis and Jacob Miller, of Can an Improvement in Harvesting Machines: Furst, we claim in oombination with a reversible main frame and
 We also claim, in combination with a hinged platiform or cutting

 37,050 - W. T. Nichols, of Rutland, Vt., for an Improvement in Motive Power
 37,051.-J. D. Otstot, of Springfield, Ohio, for an Improve1 ment in lifting Jacks


 37,052 .-C. H. Palmer, of Lakeville, Conn., for an Improvement in Repeating Guns










37,053.-J. G. Perry, of South Kingston, R. I., for an Improved Meat-cutter

 37,054.-Titus Powers, of Philadelphia, Pa., for an ImProvement in Rifling Machines:
I claim, frist, The oombination of the vib



37,055.-T. H. Risdon, of Mount Holly, N. J., for an Improvemertit in Casting Water Wheels:
Ickics easting water whepts in one piece, in the manner and by
means of a mold or mold, constructed and arranged as deseribed.
IThis invention consists in casting all the parts comprising the Wheel in one piece, by forming, by means of a suitable mold, cores
for the buckets-or rather, for the spaces between the buckets - and for the buckets-or rating them up in the mold. 1
37,056.-Gideon Robinson, of New York City, for an Im provement in Shoulder Straps:
 or
of internal
specified.
37,057.-Christian Sharps, of Philadelphia, Pa., for an Improvement in Rifling Machines:





37,058.-Abiel Sampson, of Providence, R. I., for an Improvement in Putting up Cranberries for Preserva tion:
Ia claim the merchantable package of cranberries, preserved in their
nat unticondition by beingsubmerged in water, as a new manufacture
or article of trade or artuce of trade.
37,059 .- Jacob Rupertus, of Philadelphia, Pa., for an Improvement in Revolving Fire-arms


the center pin, substantially as described.
$37,060-J$. M. Simpson, of Maultville, N. Y., for an Im-



 37,061.-C. E St
ment in Harrows: I claint the arrarangement of two or more rows of teth, $C$ D, securred
y means of fanges, d, and screws, a, or thir equivalens, in oblicue positions to the frame, A, in combination with the triangular bars or
ribs E, En the rear prat of the frame, A, ali onstructed and operat
ing in the manera ing in the manner and for the purpose specified.
37,062 . -W. H. Thompson, of Cleveland, Ohio, for an $\operatorname{Im}-$




37,063.- John Tremper, of Buffalo, N. Y., for an Improve
mentin Variable Cut-off Gear for Steam Engines:





 stantially as and for the purpose herein set torth.
[This in inention consists sha a certain novel medtan composed of two toothed lifters or tripping Levers, jointed to two arms of a rock.
shaft, and operating in combination with a tonthed block on the up right stem or rod of the cut.off valve, and with a cone or wedge con nected with a governor or otherwise made adjustable, whereby a gradual opening of the cut-of valve for the admission of steam to the engine cylinder, and a sudden closing of the same to cut of the steam at such point as may be required during the first half of the stroke of the piston, are obtained ; andit also consists in certain means applied in combination with the aforesaid tripping levers, for the parpose of enabling the steam to be continued on the piston to different points beyond half.stroke.]
37,064.- John Tremper, of Buffalo, N. Y., for an ImproveI claim, first, A steam governor having vertical or nearly vertical





rhird. So constructing the connections or surfaces of ontact of the
baliarms, the valve-.perating or valve-controlling rod a and the loaded
 gal forceor
described.

The object of this invention is so to construct a centrifugal gover nor that it may be driven at any speed, and increase or obtain power
according to the speed, in such a ratioas to overcome friction ; also to enable the balls to be made small and effect the necessary move ment of the valve by a very little motion toward and from the axis revolution; also to cause the governor to run at the same speed ends the invention cosists in sertain balls in indition with a cerlan applying the with a weight or spring employed to act in opposition to the centrifu cal force of the balls.]
37,065.-W. H. Willard, of Cleveland, Ohio, for an Im
proved Revolving Extension Colter and Gage Whee
Combined
I claim a gage wheel and revolving extension colter, con
and operating substantially as and for the purpose specified.
37,066.-W. A. Wood, of Hoosick Falls, N. Y., for an Improvement in Cutting Apparatus for Harvesters:
claim the harp or bow shaped guard surrounding the finger ba and caiaving the harp unorbsuructed space se herein represented between itse
and the finger bar, substantially as and for the purpose described. 37,067.-Wm. R. Arthur (assignor to himself and L. H

Clarke), of Chicage, Ill., for an Improvement in Railroad Splices:
 the neck of each rail, and by one or more bolts or keys $\mathrm{C}^{\prime \prime} \mathrm{C}^{\prime \prime \prime}$, pass-
ing through the lower parts of the fish plates beneath the rails, when
the said plates are adapted to fit the 'Trails in the manner specifie d hat is to say, wedging tightiy betw een nhe base and tread ot the rails
grasping the base above and below, and covering the under side of
he taiterfor the greater part of its width, all as herein shown an the ratter for the greater part or its width, all as herein shown an
described, so as to support the head and ba seof the rails against bot
vertical and lateraldeflection without strain upon the bolts.
37,068.-E. C. Blakeslee (assignor to Holmes, Booth \&
Hayden), of Waterbury, Conn., for an Improvement in Lamps : I claim the bent lever, g , on the fulcrum. 1, and actuated by a 37,069.-P. L. Clow (assignor to himself and Windsor ent in Sas Fastenings:
I clam the latch, c , the catch, $b$, and the spring, e e the whole
constructed, arranged and operating in the manner and for the pur poses set forth
,070.-James Crawford (assignor to himself and W. H
Mcintosh), of Roxbury, Mass
I claim the nower stand herein described and represented, consist [The object of this invention is to produce a flower stand capable of supporting and exhibiting at one view a large number of flowers growing in pots, and which admits of the same being arranged in a vaand of ways to form a mammoth bouquet or varlegated flower-tree
and ft consists in the manner of arranging a series of shelves on standard so that they can be placed in any desired position thereon mizontally, each independent of the other and made self-sustaining 7,071.-George Custer (assignor to himself, E. B. Root
and J. J. Stevens, of Monroe, Mich.), for an Improved Cultivator Tooth :
I claim, as an improved artcle of manufacture, a cultivator tooth
rovided with wings, and all constructed of a piece of rolled steel, in provided with wings, and all
the manner herein set forth.
[This invention consists in constructing a cultivator tooth of rolled steel with a wing at each side, both formed from the same piece, Whereby a much superior tooth than usual is obtained, one tha
un steadier in the soil and pulverize the earth more perfectly.] 37,072.-Thomas Hope, of Boston, Mass., assignor to himself and Henry Edgarton, of Shirley, Mass., for an Improvement in Skates
I claim the actuat or, consisting of the right and left screw and lan-
tern, when used in combination with theshiding heel rest., C , the sta-
tionary foot rest, b, loop, B, and heel and instep straps, D and E . 37,073.-Stephen Hull (assignor to himself and Isaac W.

White), of Poughkeepsie, N. Y., for Improvement in Harvesters :
or the
forth
37,074 .-R. G. Hunt, of New York City, for an Improve
ment in Wooden Sieves for Gas Purifiers
sloting, when the slots are conical in form and so formed at the end
ans ot le leve a w whder bar at the end on the botom side, substantial
described and as 37,075.-James Jenkinson, of Brooklyn, N. Y., asajgunr to
Joseph Merwin and E. P. Bray, of New York City for an Improvement in Revolving Fire-arms : for an Improvement in Revolving Fire-arms :
I claim the slide, F, so constructed with a slot, a, and notch, $f$ or Their equivivalents, and so constructed with a slite with a pawl, a, and notrouh which, the
roation of the cylinder is effected, that the cocking of the ham mer and rotation of the cylinder are prevented whle the slide is open and
that the pa 1 prevents ine slide from being opened while the hammer
is being cocked substantially as herein specified. 37,076.-C. B. Long (assignor to himself, Augustus Rice and Jonathan Luther), of Worcester, Mass., for an I claim combining the sighting bar and the device for indicating the
evaion on the same side of the prece, substantially as and for the elevation on the same sid
purpose herein spectied.
37,077.-G. H. Reynolds (assignor to himself and C. H• in Condensing Steam Engines : I claim, first, The so-combining and arranging the air.pump bucket
relatively to the steam piston that the latter shall, by the pressure upatively to the strmer be caumsed to come to or near the condition of half-
strose, substantialy in the manner and for the purpose herein se forth,
Second, Operating the pressure ccck, $Q$, or its equivalent, by the
movements of the injection cock, substantally in themannerand for movements of the enjection cock, substantally in themannerand for
the purpose herein set forth.
Third, The so-arranging the parts of the pressure cock or valve and Third, The so-arranging the parts of the pressure cock or valve and
of the injection cock orvalve, and their several councetions that the
injection orifice may be inceased and dimunished without eftecting the pressure orifice, and yet so that by an additional movement of in
same controlling means, after the inifnition orifice is closed, the piess
ure orifice maybe opened with the ettect herein set forth. 37,078 ,
,078.-Paul Schulze (assignor to himself and F. W. Bill
ing), of Brooklyn, N. Y., for a Process of obtaining ing), of Brooklyn, N. Y., for a Process of obtaining I claim the within-described process of drawing in soluble ink and
treating such drawing for the several purposes herein specified. [This process promises to be very valuable, as by it cheap substitutes for electrotypes of wood engravings and for etchings on steel or opper are obtained. It can also be used to obtain photographic neg atives withoul a camera, and to makedivs orseals. We are unable a secured in England and France throngh our agency.] 37,079.-Richard Uren, Thomas Dunstone and Joseph in Machinery for Manufacturing Safety Fuses: We claim the arrangement ot and mode of driving the seve
nd their ther arms or guintes and mode of driving the several tubes
he yarnsand tapes are laid, wound or twisted in oops, whereby both the yarns and tapes are aid, wound or twisted in opposite directions
alternately a nd smaltaneously, and the process of inaking the tape-
cevered tuse is enabled to be pertrmed by a continuous operation,
substantialy as and for the pur pose herein spec ified.
[This invention consistsin so arranging and giving motion to the bine as to the yarns and tapesin opposite chine as to lay the yarns and tapes in opposite directions alternatel
and simultaneous'y, by which meals the process of making the tape covered fuse is enabled to be carried on continuously.]
37,080.-J. M. Hancock, of Philadelphia, Pa., for an Im provement in Coal-oil Lamps :
I claim, first, Any sutable reservoir,
 reservoir havi ng one or two wick tubes, C and C ', when' the latter ar
tormedand arranged in respeci to the opening in the top of the ca srmedand arr anged in respect to the opening in the top of the e cap
substantially a specifee, and when a supply of air is transmitted t
he cap, through the aforesaid tube by the agency of a supplementar lamp.
Second. I claim the tube, $E$, and its reservoir, $D$, when the former
Sin to to suitable base, $A$, and is arranged to inclose a supple mentary lamp, $\mathbf{B}$.
The arrangement of the tube, $\mathbf{E}$, tube, $\mathbf{F}$, reservoir
D, and cap, $H$. 37,081.-J. A. de Brame, of New York City, for an Im provement in Machinery for Separating Fibers from Provem : I claim, first, so arranging the bearings of the cylinder, those of the
drums which carry the endlese belt and those of the feed roliers, as
toleave the machine open on one side, substantially as and for the purpose herein set forth
Second, So applying the upper feed roller as to enable its outer end
to be raised to nticrease the opening between the to be raised to ticrease the opening between the two feed rollers at
the open ide of the machine without raising the bearing of said roll
er at the opposite side, substantially as and for the purpose herein
specifed.

1,357.-Benjamin Crawford RE-ISSUE.
Frisbee \& Crawford) (assignor to English, Bennett, rovement in Steam Boiler Furnaces Ya., for an Improvement in Steam Boiler Furnaces. Patented JanI claim, first, The i
I claim, first, The injection of whirling jets of steam among the
gaseseroved by the fuel on the grates, for the purpose set torth.
Second, Self. Whirling ad utages or Second, Self-whirling adiutages, or their equivalents, on the pipes Thesing the draft or promotingoombustion, substantially as set forth.
Third Whiring live steant for the purpose of increasing or mant
taining the draft of a steam boiler furnace, substantially as set forth taining equivalent thereto.
or the eurthi, A combined st
Fourth A combined stream of mingled steam and hot air intro.
oreve and torce tno the ash-pit and up through the fire of a steam
dooller tirnace by boiler tirnace by means of here steam bonler and hot air and steam
pipes which intersect one another andterminate in a discharging noz-
pie within the ash-pit, substantially as set forth or the equivalent therto.
Fifth, Live steam blowers arranged in the flues of a steam boiler tor
the purpose of adding the dratt and blow ing out the foul matter which the pur pose of addring the
accumulates in the tlues.
Sixth, The combination
Sixth, The combination of means, as set forth, for performing uni-
ediy the several functions specifed. Nore.-We recognize in the above list of claims the names of this office.

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