boots and shoes may be blackened and polished far more expediently han it an be done by hand.]
42,708.-Water Wheel.-W. Whitncy, Manchester, N. H. verted conical centre, E, and hoop, G, tow ich the foats are fastened In combination with the concape, disk or or basin around the wheel,
claim the stationary guides, $L$ and shutes, $M$, to direct the water on I claim the cylindricalg ate described.
Fheel, and fitted to traverse, circularly around the the curb and the Wheel, and fitted to traverse, circularly around the wheel, and open 42,709.-Machines for making Horse-shoe Nails.-Jame White, Cleveland, Ohio, and John Malden, Youngs town, Ohio:
lank and shaping the herein-described devices for cutting off the
second, Whe clainm the herein-described devices for throwing the
clank forward into the lip, b, in the manner specifed.
blank forward into the lip, b, in the manner specifled.
Third, We claim the herein-described devices for holding the nail
while it is being drawn into shape, and releasing the same.
Fouth, We claim the vibrating arms, M, N,, ,, , In combina-
tion with the wheel, B, operating as and for the purpose specifed.
42,710.-Car Coupling.-Geo. E. Wood, Providence, R. I
I claim the pivoted pin, , in combination with the fastening. D ,
arranged withinthe drawhead, $A$, to operate in connection with alink arranged withnn the drawhead, A, to operate in connection with alin
or sba ckle, $\mathbf{B}$, substantially as and for the purpose set forth. hich connect or couple themselizes, and are commonly terme self-couplings." The invention consists in the employment or us of a piroted pin in connection with a fastening arranged within a draw-head, in such a manner that the link or shackle in entering the draw-head will engage itself with the pin, and the latter adjust itsel
a proper relatire positicn, with the fastening so as to be retained $y$ the latter, the pin being very readilyreleased so as to free the link解 the couphag.
42,711.-Wagon Brake.-James F. Woods, 2d, Cohocton,
I claim the application of the straight lever, $D$, with its right angle arm, d, the same being pivoted to the wagon reach, and operating in
the arc of a circle, in the manner as described, for the purposes

2,712.-Jug-top.-Homer Wright, Pittsburgh, Pa.
I claim formirg the mody section of a tin jug-top, With the margin seam, ais for purpose herin subsanialy setron.
2,713.-Printing and Uraamentiny Textile Fabrics.
I claim, as a new article of manufacture, Fansicx with metallic
hreads interwoven therein, printed
2,714.-Mode of applying Lubricating Substances.
May 3, 1864:
I daim the meth:
I cain the method herein above-described of applying lubricating
matters, the same consisting in in using in axle boxes, for railway car-
riages, \&c., hay or straw, or both combined, substantially as herein
bove described.
42,715.-Bread-cutter.-James Oxley, Sheffield, England.
I claim, frst, The general constructions, arrangements and com
binations of apparatus for cutting, sicicing, chopping or or mincing
bread and other substances, substantially as herein described and
iread and other substances, substantially as herein described and
Second, Che combination of a knife-blade with a lever and inclined
sfotted bracket, so disponed as to give a downward draw-cut for the
purposes herein before desc ibed. . T hird, The combi ation of k kife with two links or levers, so dis-
posed as to give a downward draw-cut for the purposes herein oefore posecribed. The combination of an adjustable guage with a lever work-
feortil,
ing or cutting blade substantially in the manner and for the purpose Ferein-before described.
Fifh, The application and use of the bar or rib, 0 , or its equivalent,
combined with the knife, C , for separating or clearing the slices when ut, substantially ${ }^{\circ}$ as herein berore described
Sixth, The aplication and use of an apparatus, constructed su
tantiall as herein be fore described, for holday the substance to stantially as herein be fore described, for hold tig the substance to be
cut trmm
knife, and moving it forward, step by step, at right anglest to the 42,716.-Centrifugal Disks, revolving in Air and Water. nond England, Nov. 6, 1860 :
Tcaim, irst, The arrangement in centrifugal disks, as above de-
scribed, of the separate radial passages or ducts, b b , formed by the or the circumf erence; the said duct sha ving their respective sectional equal, to the areas of
Second, In combination with the foregoing, I also claim the ar
angement of the secondary ribs, $\mathbf{d} d \mathbf{d}$, extending trom the angement of the secondary ribs, d d d, estending trom the circum
erence towardit the center, and forming the secondary ducte, b'b' ${ }^{\prime}$,
as above doscribed, by means of whlch the centrifugal force of the reas above doscribed, by means of whtch the centrifugal force of the re'
volving disk ingreatly increased for the expulsion or the air or other Third. I arco claimerence. thimproved disk, as above described, with or
without a pressure chamber, in combination with the air-tight collars, Without, prited around the mouth of the disk, and communicating by
E E E
suitable tubes or pipes with any reservoir of air, water, or other fuid

42,717.-Gas Producer or Furnace.-Chas. W. Siemens, London, England, and Frederick Siemens, Berlin Prussia. Patented in England, Jan. 22, 1861 :
We claim the gas producer, constructed in manner and so as to perate substantially as described.
42,718.-Manufacture of Gun Barrels.-Jas. Thompson, Bilston, England :
I claim the mannithenturf of fire-arms, or ordnance, of iron, steel, or
other desired nueta, without weld or iont of any kind, and hol-
ow, substantially in the maner and
 escribed.
2,719.-Safety Doors for Churches.-Alex. H. Wagner Detroit, Mich.
I claim the combination of a door, A, opening inward, with a
frame, B, hung oa hinges and opening outwara, substantially in the
manner, shown and described. Also the application to the frame, B, and door, A, constructed as
described, of a lever, D,
said lever. the frame is is liver equalentent so that, by a slight touch of (The object of this invention is to construct the doors of a church, wardls the same as dors of the usual constrection; but, in case of a are, or other accident whereby the assembly in the building is compelled to break up in great haste, by a slight touch of a lever, or other suitable contrivance, the door is ma $e$ to swing outward mith an in creased area, and the obstruction offered by said door to the egress o the people from the building is considerably decreased.]
42,720.-Surface Condenser.-J. J. W. Watson, Paris, and W. H. Smith, Nantes, France
We claim the use in steam condensers of tubes, or other vessels,
filled with wire gaze or its equivalent, substantially in tae manner
and for the purpose and for the purpose specified.
42,721. - $\Lambda$ ppa atus for inhaling Gas.-Simeon W. Albee Charlestown, N. H., assignor to himself and Henry Hodson, Charlestown, Mass
I claim the combination of the elastic, inflatable mouth cushion, $C$, with valves or a valve apparatus as described.
And I allo claim the combination and arrangement of the two
valves, valve-scats, and valve-stem together, and with the valve-case, and a mouth tube, arraved asem decribed

42,722.-Hydrostatic Balance. - Julius O. Baudissin Louis, Mo. I claim, frrst, The hermetical but elastic closicg of ny water-box by
means of gutta percha straps scured to the frame,
 Second, The guide-rod, B, and balancing rods, $g \mathrm{~g}$, as set forth.
Third, The regulating screws, g and x , as set fort. Fourth, The gutta-percha bag, G , on top of the indicator, as set
corth, alli in the manner and for the purpose as specifled above.

2,723.-Washing Machine.-Elliot Dickerman, assigno to Metropolit
I claim, in connbination with the operative parts of a washing ma arranged and applijed as to shorten the cord, , , ly the lowering of the
adjustable piece. , and to lengtien it by clevating it to the top piece,
D,
2,724 Col-mining Apparatus.-G. E. Donisthorp W. Firth and R. Ridley, Leeds, England. Patented in England. Nov. 26, 1861.
We claim, irst, The combined arrangement of mechans herei xicks with lever handles are actuated by compressed air whereby mounted on and carriied by the same carry compressed
And, secondly, We claim the combined arrang the pick
And, secondily, we claim the combined arrangement of mechanism
herein explained, with reference to figures 4 and 5 of the drawings,
whereby cutters are connecte with and mo ved to and fro by the
piston piston-rods of air engines moun 42,725.-Wheat-cleaning Machine.-John Gaw (assignor
to himself and Henry P. Chandler). Ellicott's Mills, Md.: I claim the combination of the benter cylinder, $J$, constructed
with openings top top and bottom tor the passage of an upward cur-
rent of air, with the bell-shaped fumel, $K$, for concentrating the rent of air, with the bell-shaped fumel, K, for concentrating the
draught and directing the air current, as described. 42,726.-Buckle-fastening.-Charles Goodyear, Jr., \&
Leonard A. siprague (assignors to Charles Goodyear), New York cily:
same claam the forming of a lever buckie in such manner that the
inge joint ather straps or other articles by a direct ing strap, as set forth.
ine., without the intermediary of a a a connect.
ing stachment We also clalm the combination of lever buckles when composed of
two parts, as set forth, with a hinge connectionton the face of the straparap, alied set fort
fexibinity of the strap.
We also claim the method of securing or fastening lever buckles to
straps and other articles by means of staples or their equivalent clamping or clinching devices, when the said staples or their equivaa hinge.
42,727.-Manufacture of surar......Frederick W. Gossling (assignor to himself, thenry F. Briggs \& Lyman Bradifey) B Buffalo, $N$. Y.:
I claim as a new article of man

42,728.-Process of treating Indian Corn and Beat to produce Sugar and Sirup.-Frederick W. Goss ling (assisnor to himself, H. F. Briggs \& L. Bradclaim first, The process of making sugar from corn and beets, substantially as herein described.
Second, The process of making corn sirup from corn in each suc cessive step thereof preparatory to its conversion into sugar, substan
Thard herein described. Third, The process of na king beet sirup trom beets in each suc
cessive step thercof, substantially as hereln described. 42,729.-Tag Hook.-John Hawks (assignor to Henry Hawks), Brooklyn, N. Y..
I claim the metallic hook attachment for tags and labels, consist-
ing of the spiral or screw-formed portion receiving the straight or
nearly straiglit part, as and for the purpose specifed. 42,730.-Combination of Cradle and Chair.-Alonzo Hi zs (assignor to himself and Henry Lewis), Flushing, N. Y.
I claim, frst, A cradle swinging on a frame or standard, in com-
bination with a chair rocking upon stationary feet or legs, whereby the relative po oition of the cradle and chairy may remainin unchanged,
so that a conn ection can be made between the chair and cradle, subso that a conn ection can be made between the chair and cradle, sub-
stantially as pecifled
Second, I claim the combination of the table, $e$, on the arm, $d$, Third, I claim the rocking chair on the legs or feet, $f$, in combination with the spring, , , extending from such legs, $f$, to the staple on
the back, as specifed. 42,731.-Machine for making. Bolts and Rivets.-James Howden, Glasgow, Scotland, assignor to Wm. \& England Feb. 28, 1859
I claim, Irst, The combination of two or more revolving die-tables
having a vertical axis with a single lever for actuating the heading
rams, when the parts are constructed and arranged as and for the purposes herein specifled.
and lever, I I claim thation with the aforesaid die-tables, heading rams
and or ther the purposes described
and Third, The comphnation of the osciluating cutting levers, $\mathbf{P}$, eccen
tric, $\mathbf{0}$, and shaft, $K$, when con structed and operated as d escribed. [This invention cannot be well explained without,illustration, it ap pears to be a very ingenious and effective machine.]
42,732.-Oil Box for Railroad Cars.-Edwin F. Hurlbut
\& Ransom $S$. Potter (assignors to themselves and Nathaniel S. Beuton), Chicago, Ill.
We claim, first, Casting or fastening a door eir lid into a frame
substantially as shown and for the purposes deccribed. Second, The combination of the loose lugs or ears letter $D$, with
the oil box, substantially as shown and for the purposes described.
42,733.-Portable Wet Grain Elevator.-Daniel W. Kel-
logg \& James W. McKee (assignors to A. B. Nimbs
I claim, frst, The oscillating jows, F , for the purpose of supporting
and operating the elevating leg the rein, substantianly as described. and operating the elevating leg therein, substantially as described.
Second, Extending and operating the elevating buckets below the
foot of the leg so that they nay easily fll with wet grain and pass up
the leg without the leg without cloqgIn when combined with the raising, lowering
and supporting ticke, $\mathrm{H}^{\prime}$, and adjustiag rod, I , substantially as
set forth. Third, The combination of the conveyor, $T$, with a portable eleva-
tor, substantially as described. Fourth, The combleation of the blower, M, and cleaning apparatus,
L, with a portable elerating machine, substantially as set forth 42,734.-Manufacture of Elevator Buckets.-A. B. Nimbs N. Y.: f claim an elevator bucket with its strengthening band, constructed
and formed from one sheet or piece of metal, substantially as herein
described described
42,735. Clamp for stopping Leaks in Hose Pipes.-C. Rubsam (assiguor to himself and Charles P. Hall), I claim as an improvel article of manufacture, a leak-clamp for
hose pipes ho se pipes conngosed of the canvas or fabric, A, with attiaghed metal-
lic 6 trips, B, and
shown and described.
[This invention consists of a clamp consisting of two or more pieces of metal which are fastened to the opposite ends of a prece of canvas or leather, or other, suitable fiexible material, and provided with lugs canvas or other flexible material can be drawn together in such canvas or other flexible material can be drawn togeter in such a
manner that in cage of a leak occurring in $k$ ne faucip can be
readily attached and!drawn up tight and the leak can be stopped in few minutes without taking up the hose]
42,736.-Hoop Skirt.-Leopold Sanders, New York City, assignor to Thomas B. De Forest, Birmingham Fngland
I claim a hoop skirt in which the orerlapped ends of the hoops are
secured to tapes, A' and AA', or their equivalent, which slide freely
around said hoops, substantially in the manner and for the purpose around sai
set forth.
(This invention consists in attaching the ends of the hoops to two tapes at the front of the skirt, said tapes being placed adjoining each other, or side by side, and each having every alternate hoop perma slide freely througb.]
42,737.-Cultivator.-Samuel A. Tombs assignor to himself and Samnel N. Purse), Ashley, Mo.
I claim a cultivator frame constructed of the curved bar, $A$, united
at its rear by the curved cross-bar, $b$, and provided with the stationary standards and cultivator teeth, a, and pivoted stane stations :
hander, handles, $d$, the
herein set forth.

## DESIGNS.

1,939.-Slipper Pattern.-Edward K. Butler, of Boston, Mass.
1,840.-Clock Case.-Elias Ingraham, Bristol, Conn.
1,941 to 1,943.-Carpet Pattern.-Elemir J. Ney, (aswell, Mass. (Three cases.)
1,944.-Trade-mark--William Robotham (assignor to
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ppear in next week's list.

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