boots and shoes may be blackened and polished far more expediently han it can be done by hand.]

42,708.—Water Wheel.—W. Whitney Manchester, N. H. I claim, in combination with the peculiatly shaped floats, F, the in-verted conical centre, E, and hoop, G, to w ich the floats are faste Bed. In combination with the concave disk or basin around the wheel, I claim the stationary guides, L and shutes, M, to direct the water on to the wheel, substantially as described. I claim the cylindricalg ate, N, arra ged between the curb and the wheel, and fitted to traverse circularly around the wheel, and open and close the shutes or apertures which supply water to the wheel.

42,709, -Machines for making Horse-shoe Nails. -Jame White, Cleveland, Ohio, and John Malden, Youngs Jame

42,709.—Machines for making Horse-shoe Nalls.—James White, Cleveland, Ohio, and John Malden, Youngstown, Ohio:
We claim, first, The herein-described devices for cutting off the blank and shaping the head at one operation.
Second, We claim the herein-described devices for throwing the blank of the blank of the lip, b, in the manner specified.
Third, We claim the herein-described devices for holding the nail, while it is being drawn into shape, and releasing the same.
Fourth, We claim the vibrating arms, M, N, O, P, S, T, in combination with the wheel, B, operating as and for the purpose specified.

tion with the wheel, B, operating as and for the purpose specified. 42,710.—Car Coupling.—Geo. E. Wood, Providence, R. I. I claim the pivoted pin, C, in combination with the fastening, D, arranged within the drawhead, A, to operate in connection with a link or sha citle, B, substantially as and for the purpose set forth. [This invention relates to an improved car coupling, of that class which connect or couple themselves, and are commonly termed "self-couplings." The invention consists in the employment or use of a pivoted pin in connection with a fastening arranged within a draw-head will engage itself with the pin, and the latter adjust itself a proper relative position, with the fastening so as to be retained by the latter, the pin being very readilyreleased so as to free the link or shackle whenever it is required to disconnect the coupling.]

-Wagon Brake.-James F. Woods, 2d, Cohocton,

N.Y. 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 purpose herein st forth.

herein sit forth. 42,712.-Jug-top.-Homer Wright, Pittsburgh, Pa. : 1 claim forming the body section of a tin jug-top, with the margin or rim, A, figures 3 and b, of one solid piece of sheet tin, without seam, all for the purpose herein substantially set forth. 42,713.-Printing and Ornamenting Textile Fabrics.--Alexandre Adrien Despreaux, Paris, France : I claim, as a new article of manufacture, Tabrics with metallic threads interwoven therein, printed or ornamented in the manner substantially as herein before set forth. 42,714.--Mode. of annlying Lubricating Substances.--

substantially as herein before set forth.
42,714.—Mode of applying Lubricating Substances.— James Dougall, Stirlingshire, Scotland. Antedated May 3, 1864:
I claim the method herein above-described of applying lubricating matters, the same consisting in using in axle boxes, for railway car-riages, &c., hay or straw, or both combined, substantially as herein above described.

above described. 42,715.—Breud-cutter. —James Oxley, Sheffield, England. Patented in England, October 30, 1862 : I claim, first, The general constructions, arrangements and com-binations of apparatus for cutting, shleing, chopping or mincing bread and other substances, substantially as herein described and illustrated by the drawings. Second, The combination of a knife-blade with a lever and inclined slotted bracket, so disposed as to give a downward draw-cut for the purposes herein before desc ibed. Third, The combi ation of a knife with two links or levers, so dis-posed as to give a downward draw-cut for the purposes herein oefore described.

Posed as to give a downward draw-out for the purposes herein before elescribed. Fourth, The combination of an adjustable guage with a lever work-ing or cutting blade, substantially in the manner and for the purpose herein-before described. Fifth, The application and use of the bar or rib, O, or its equivalent, Fifth, The application and use of the bar or rib, O, or its equivalent, combined with the knife, C, for separating or clearing the slices when cut, substantially as herein before described. Sixth, The application and use of an apparatus, constructed sub-stantially as herein before described, for holding the substance to be cut firmly, and moving it forward, step by step, at right angles to the knife.

kniie. 42,716.— —T.

cut firmly, and moving it forward, step by step, at right angles to the knife.
42,716.—Centrifugal Disks, revolving in Air and Water. —T. W. Rammell, London, England. Patented in England, Nov. 6, 1860:
I claim, first, The arrangement in centrifugal disks, as above described, of the separate radial passages or ducts, b b b, formed by the straight ribs, a a a, attached to the central shaft, A A', and extending to the circumference; the said ducts having their respective sectional areas uniform, or nearly uniform, throughout, and equal, or nearly equal, to the areas of the corresponding openings which admit the air or diud at the center, and forming the secondary ducts, b'b's, as above described, by means of which the centrifugal force of the reful at the circumference.
Third, I also claim the improved disk, as above described, with or without a pressure chamber, in combination with the air-tight collars, interd and the model multiple suitable tubes or pipes with any reservoir of air, water, or other fluid at larranged in the nanner and for the partposes above described.
42,717.—Gas Producer or Furnace.—Chas. W. Siemens,

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 operate substantially as described.

operate substantially as described. 42,718.—Manufacture of Gun Barrels.—Jas. Thompson, Bilston, England: I claim the manufacture of fre-arms, or ordnance, of iron, steel, or other desired metal, without weld or joint of any kind, and hol-low, substantially in the manner and by the means herein before described.

described. 42,719.—Safety Doors for Churches.—Alex. H. Wagner, Detroit, Mich.: I claim the combination of a door, A, opening inward, with a frame, B, hung on hinges and opening outward, substantially in the manner shown and described. Also, the application to the frame, B, and door, A, constructed as described, of a lever, D, or its equivalent, so that, by a slight touch of said lever, the frame is liberated and allowed to swing open.

(The object of this invention is to construct the doors of a church) (the object of this invention is to construct the doors of a church or other public building, so that the same, in ordinary cases, open in-wardly, the same as doors of the usual construction; but, in case of a fire, 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 with 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 gauge or its equivalent, substantially in the manner and for the purpose specified.

42,721.—Appa 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 the mouth-tube or conduit, B, and its vare-case, A, provided with valves or a valve apparatus as described. And I also claim the combination and arrangement of the two valves, valves.east, and valve-stem together, and with the valve-case, and a mouth tube, arranged as described.

-Hydrostatic Balance. - Julius O. Baudissin, signor to himself and S. Vangraafeiland, St. 42.722. 42,722.—Hydrostatu Land And S. Vangraatellanu, D. Louis, Mo. Louis, Mo. I claim, first, The hermetical but elastic closing of my water-box by means of guita percha straps secured to the frame, A. platform, E, and guiderod, B, by metallic or other rings, fe, and square pices, d', as set forth.

d d', as set forth. Second, The guide-rod, B, and balancing rods, g g, as set forth. Third, The regulating screws, g and x, as set forth. Fourth, The gutta-percha bag, G, on top of the indicator, as set forth, all in the manner and for the purpose as specified above.

42,723.—Washing Machine.—Elliot Dickerman, assignor to Metropolitan Washing Machine Company, Middle-field, Conn. I claim, in combination with the operative parts of a washing ma-chine, the plunger staft, A, top piece, D, and adjustable piece, E, so arranged and applied as to shorten the cord, C, by the lowering of the adjustable piece, E, and to lengthen it by elevating it to the top piece, D, as herein specified.

D, as herein specified.
 42,724.—Coal-mining Apparatus.—G. E. Donisthorpe, W. Firth and R. Ridley, Leeds, England. Patented in England. Nov. 26, 1861.
 We claim, first, The combined arrangement of mechanism herein explained, with reference to figures 1 and 2, of the drawings, whereby picks with lever handles are actuated by compressed air engines mounted on and earried by the same carriage as the picks.
 And, secondly, We claim the combined arrangement of mechanism herein explained, with reference to figures 4 and 5 of the drawings, whereby catters are connected with and moved to and for by the piston-rods of air engines mounted on carriages as herein described.
 42, 725.—Wheat-cleaning Machine.— John Gaw (assignor)

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 at top and bottom for the passage of an upward cur-rent of air, with the bell-shaped fumel, K, for concentrating the draught and directing the air current, as described.

tens of an, wind the benishaped rumel, K, for concentrating the draught and directing the air current, as described.
 42,726.—Buckle-fastening.—Charles Goodyear, Jr., & Leonard A. Sprague (assignors to Charles Goodyear), New York Cily:
 We claim the forming of a lever buckle in such manner that the same may be secured to leather straps or other articles by a direct ling strap, as set forth.
 We also claim the combination of lever buckles when composed of two parts, as set forth.
 We also claim the combination of lever buckles when composed of the strap, applied as shown and described, so as not to interfere with the factibility 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 equivalent clamping or clinching devices constitute one of the elements of a hinge.

a mage. 42,727.—Manufacture of Sugar.—Frederick W. Gossling (assignor to himself, Henry F. Briggs & Lyman Brudley), Buffalo, N. Y.: I claim as a new article of manufacture alsugar produced from corn and beets.

corn and beets.
42,728.—Process of treating Indian Corn and Beet Root to produce Sugar and Sirup.—Frederick W. Goss-ling (assignor to himself, H. F. Briggs & L. Brad-ley), Buffallo, N. Y.:
I claim 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-tially as herein described.
Third, The process of making beet sirup from beets in each suc-cessive step thereof, substantially as herein described.
24, 2729 — Targ, Hook __John Hawks (assignor to Henry)

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 straight part, as and for the purpose specified.

nearly straight part, as and for the purpose specified.
42,730.—Combination of Cradle and Chair.—Alonzo Hi 'xs (assignor to himself and Henry Lewis), Flushing, N. Y.:
I claim, first, A cradle swinging on a frame or standard, in combination with a chair rocking upon stationary feet or legs, whereby the relative position of the cradle and chair may remain unchanged, so that a connection can be made between the chair and cradle, substantially as specified.
Second, I claim the combination of the table, e, on the arm, d, with the swinging cradle, substantially as specified.
Third, I claim the rocking chair on the legs or feet, f, in combination with the spring, l, extending from such legs, t, to the staple on the back, as specified.

42,731.—Machine for making Honsteinlegs, i, to the staple on the back, as specified.
42,731.—Machine for making Bolts and Rivets.—James Howden, Glasgow, Scotland, assignor to Wm. & John Galloway, Manchester, England. Patented in England Feb. 28, 1859:
1: claim, first, 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 specified.
Second, In combination with the aforesaid die-tables, heading rams and lever, I claim the bell crank levers, Y, operated in the manner and for the purposes described.
Third, The combination of the oscillating cutting levers, P, eccentric, O, and shaft, K, when constructed and operated as described.

[This invention cannot be well explained without,illustration, it ap sears 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. Bouton), Chicago, III.: We claim, first, Casting or fastening a door or lid into a frame, substantially as shown and for the purposes described. Second, The combination of the loose lugs or ears, letter D, with the oil box, substantially as shown and for the purposes described.

the reg where the second secon

42,734.—Manufacture of Elevator Buckets.—A. B. Nimbs (assignor to himself and J. C. Clifford), Buffalo, N. Y.: I claim an elevator bucket with its strengthening band, constructed and formed ferm one sheet or piece of metal, substantially as herein described.

42.735

42,735. Clamp for stopping Leaks in Hose Pipes.—C. Rubsam (assignor to himself and Charles P. Hall), Newark, N. J.: I claim as an improved article of manufacture, a leak-clamp for hose pipes composed of the canvas or fabric, A, with attached metal-lic strips, B, and clamping screws, b, made and operating as herein shown and described.

[This invention consists of a clamp consisting of two or more pieces or metal which are fastened to the opposite ends of a piece of carvas or leather, or other suitable flexible material, and provided with lugs and screws or with other suitable means whereby the ends of the carvas or other flexible material can be drawn together in such a ne tamp can be manner that in case of a leak occurring in k

readily attached and drawn up tight and the leak can be stopped in a few minutes without taking up the hose.]

42,736.—Hoop Skirt.—Leopold Sanders, New York City, assignor to Thomas B. De Forest, Birmingham, England: I claim a hoop skirt in which the overlapped ends of the hoops are secured to tapes, A' and A'' or their equivalent, which slide freely around said hoops, substantially in the manner and for the purpose 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 permanently attached to it, while the intermediate hoops are allowed to slide freely througb.]

42,737.—Cultivator.—Samuel A. Tombs (assignor to himself and Samuel 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 station-ary standards and cultivator teeth, a, and pivoted standards or handles, d, the whole constructed and arranged substantially as herein set forth.

DESIGNS.

1,939.—Slipper Pattern.—Edward K. Butler, of Boston, Mass.

1,940.—Clock Case.—Elias Ingraham, Bristol, Conn.

1,941 to 1,943.—Carpet Pattern.—Elemir J. Ney. (assigner to the Lowell Manufacturing Company), Lowell, Mass. (Three cases.)
1,944.—Trade-mark.—William Robotham (assigner to himself and Walter Greacon), Newark, N. J.

[The Re-issues belonging to the list of this date will appear in next week's list.]

TO OUR READERS.

PATENT CLAIMS.—Persons desiring the claim of any invention which has been patented within thirty years, can obtain a copy by addressing a note to this office, stating the name of the pat entee and date of patent, when known, and enclosing \$1 as fee for copying. We can also furnish a sketch of any patented machine issued since 1853, to accompany the claim, on receipt of \$2. Address MUNN & CO., Patent Solicitors, No. 37 Park Row, New York.

NVARIABLE RULE.—It is an established rule of this office to stop sending the paper when the time for which it was pre-paid has expired.

MODELS are required to accompany applications for Patents under the new law, the same as formerly, except on design pat-ents, when two good drawings are all that are required to accompany

the petition, specification and oath, except the Government fee RECEIPTS .- When money is paid at the office for subscriptions, a receipt for it will always be given ; but when subscribers .emit their money by mail, they may consider the arrival of the first paper a *bona-fide* acknowledgement of our reception of their funds.

RATES OF ADVERTISING.

TWENTY-FIVE CENTS per line for each and every insertion, pay able in advance. To enable all to under tand how to calculate th amounttheymust sendwhen they wish advertisements published, we will explain that ten words average one line. Engravings will not be admitted into our advertising columns, and, as heretofore, the publishers reserve to themselves the right to reject any advertisement they may deem objectionable.

COMMON SENSE.-WHAT I CALL COMMON Sense is to advertise where you get the worth of your money. I wouldn't give a red cent for a city daily to advertise a new inven-tion in. I have had more returns from the SCIENTRIC AMERICAN than from all others put together. I have got a common sense Knife Cleaner which works to a charm, and is sold for almost nothing. They retail at 25 cents, are all cast-iron, and go like hot cakes. To dealers my terms are \$15 per gross; half a gross, \$8. Try a lot. Address EGBERT P. WATSON, Box 773, New York.

CALORIC ENGINE MANUFACTURERS. WANTED, sizes, prices, and description of Calorie Engines, from partices who manufacture them. Address M. BENTLEY, Covington, Ky. 21 3*

FOR SALE.—RIGHTS TO MANUFACTURE AND sell Drake's Patent Boring Machine, or the entire Patent. This machine is a practical success. Will bore 6,000 holes per hour, and can be manufactured at large profit. Inquire at 28 Dey street, second floor, where a working model may be seen. I*

ARMY SUPPLIES.

AGELI SUPPLIES. OFFICE OF ARMY CLOTHING AND EQUIPAGE, 502 BEOADWAT, NEW YORE, May 7tb, 1864. SEALED PROPOSALS WILL BE RECEIVED AT bihs Office until 12 o'clock, M., on Monday the 16th of May inst, for furnishing by contract, at the Depot of Army Clothing and Equipage in this city,



Forage Caps. Samples or specifications for which can be seen at thusoffice. Bid-ders will state the quantity they wish to furnish, and how soon they can complete the delivery of the quantity they bid for. They will submit, with their proposals, a sample of the article they propose to furnish.

Aproper guara ty must accompany all proposals for the faithful performance of a contract. The United States reserves the right to reject any part or the whole of the bids as may be deemed for the interest of the service. Proposals should be endorsed "Proposals for furnishing (here in-sert the articles bid for") and addressed to 1 LT.-COL. D. H. VINTON, Dy. Qr. Mr. Genl.

TO SOAP MANUFACTURERS.—PLANS OF FAC-TORIES; Drawings of Apparatus; Recipes to prepare the fol towing Soaps: Hard, Soit, Castlle, Fancy, Rosth, Family, War, Palm and Crep, Toilet, Powder, Transparent, Silfactol, Analysis and Essays of Lyes, Greases, Oils, and Soaps. Address Prof. H. DUS SAUCE, Chemist, New Lebanon, N.Y.

FOR SASH, BLIND, AND DOOR MACHINERY, address J. A. FAY & CO., WORCESter, Mass. 1.