OFFICIAL REPORT OF

PATENTS AND CLAIMS

Issued by the United States Patent Office,

FOR THE WEEK ENDING JULY 14, 1868.

Reported Officially for the Scientific American.

PATENTS ARE GRANTED FOR SEVENTEEN YEARS, the following being a schedule of fees: -

On tiling each Caveat.
On dling each application for a Patent, except for a design.
On ssuing each original Patent.
On appeal to Commissioner of Patents.

of Canada and Nova Scotia pay \$500 on application.

Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of model required, and much other nformation useful to Inventors, may be had gratis by addressing MUNN & CO.. Publishers of the Scientific American. New York.

79,800.—FASTENING FOR BOOT.—A. A. Abbot, Boston, Mass I claim the within described fastening, consisting of the spring bottom. Concombination with an eyelet, B, or its equivalent, substantially as described 9,801.—Self-Locking Bolt for Meter Safe.—Alonzo W

Adams, New York city.

Adams, New York city.

Alam is not a described.

20. The safe or guard-casing, with its devices thereto attached, or equivalents, as shown an idescribed.

30. The combination of the bolt, A, with the safe or guard-casing, as represented in the specifications and in fig. 4 of the drawings, or any equivalent

- Machine for Separating Light from Heavy PARTICLES OF LITHARGE, PAINT, ETC — W. Atwood, Cape Elizabeth, Me. I claim 1st, The combination of the fan whee!, f, tube, g, and rotating dium, b, as and for the specified purposes.

2d, The combination of the spout, a, with the rotating drum, b, as and for the purposes set forth.

Ed. The combination of the spout, a, with the rotating drum, b, as and for the purposes set forth.

3d. in combination with the fan wheel f, tube, g, and drum, b, all operating as described, the deposit chamber, b, for the purposes described.

3d. b, Separating the ther from the coarser particles of tharge, etc., by means of a current of air forced through a rotating drum, etc., and carrying the said ther particles into a deposit chamber, substantially as described. scribed. 79,803.—Rotary Steam Engine.—J. S. Barden, Providence.

79,803.—ROTARY STEAM ENGINE.—J. S. Barden, Providence, R. I. assignor to himselt and D. N. Pickering, Boston, Mass. I. claim as my invention, the combination consisting of the two sectoral cham. ers.c.c., the oscil ading pistons, C. D., the shaft, B, the cylinder, d, the reciprocating valve piston, G, its cylinder, F, and tapped or stemmed valves, bl bl, arranged and provided with steam pass ges of induction and eduction the whole being substantially as and so as to operate as described.

Also, the arrangement of the steam-passages, f g with the pistons, C. D. the cylinder, D, and the shaft, B.

Also, the arrangement and combination of the faucet, E, and its branch passages, k k, with the steam chambers, c.

Also, the arrangement of the valves, bl.the rods, cl.thereof, and their passages, as ba, so as to effect cushioning "of the valve-piston, G, by the steam, under circumstances as set forth.

Also, the valve-piston, G, constructed of the shell, r, and body part, q, madeand arranged together as set torth.

79,804.—Scroll for Water-Wheel.—J. L. Beers, McAlisterville; Pa.

terville; Pa.

I claim the arrangement of the gate, D, and bar, C, with the adjustable tongue, B, and the throat, A, as and for the purpose specified.

79,805.—CAR BRAKE.—Wm. P. Blades, Baltimore, Md.

I claim the brake block, B, constructed with the slotted cavity, in combination with the supporting bolt, D, made with a new or boltte pass through brake car, and when Divoted to the block by the same link which supports the whole supportatilly as described

the whole, substantially as described 79,806.—REVENUE STAMP.—G. W. Bowlsby, Monroe, Mich.

79,006.—REVENUE STAMP.—G. W. Bowlsby, Monroe, Mich. I claim, 1st, A blank stamp, having no fixed value while in the handsof the Government. until the inspector has estimated the tax, through the proper means, and has entered the amount on the face of the stamp for a specific package, the value of the stamp depending mostly upon said estimate, and partly upon the class name of the stamp.

2d, A stamp made in separate and independent sections, mechanically, substantially as described, for the purposes named, or for other similar purposes 4th, visump, the mechanically independent sections of which are of different colors, for the purposes named.

5th, Masing the different sections or portions, as described, of the same stamp, whiches for the necessary entries of inspection and reinspection, and continuing and carrying a history on their face of the movements, ownership, duty, proof, weight, measure, and, or other matters of record pertaining to the article taxed, as an ever present means of detection, an auxiliary in reinspection, and also a partial cancel suffor.

6th, A stamp whose sections days days the sections of for the purposes days of the contraction of the described.

6th. A stamp whose on their faces, to be separated, substantially as and for the described.

7th. The numbering of the different stamps, and also the sections of the same stamp, by various series, for further means of detection, reference cancellation, record, and identification.

8th The entry of official countersignatures upon the face of the stamp and its sections in successive series, or by intermediate steps, for the purposes.

its sections in successive series, or of microcause supports and the named.

9 lb. The continuous cancellation of the stamp by the process described.

10th, The final resumption of the stamp coupons, and then of the stamps proper, by the Government.

11th. A stamp whose face history is connected with an official book record at the home office, and also with the inspectors or assessors' book, for the Durnoses specified. purposes specined 79,807.—Hot Water Tank on Cooking Stove.—Albert

79,807.—HOT WATER TANK ON COOKING STOVE.—Albert Brown, Troy, N. Y.
I chain a hot water reservoir, having a descending or driving fine therein substantially as and for the purpose herein specified Also the projecting horizontal flue, E. for forming a connection between the st. ve and reserv if flues and ext pipe the reof, substantially as set forth. Also, the suspension of the reservoir by the stove pipe projection or thmble, substantially as described and as represented in Mr. 1.
Also, the boiler hole or holes g, over the flue space, E, in combination with the hot water reservoir, substantially as set forth.
79,808.—Fire Proof Safe.—H. H. Bryant, Boston, Mass. I claim, 1st, Thecombination of one or more vessels, adapted for containing a liquid suitable for generating set aim, with a safe which has its chamber of a posit mode steam light against the steam which is generated from the water in said vessels, substantially as and for the purpose herein described.

2d. The arrangement of water or fluid vessels with steam valves, applied either within the door of the safe, or mendiately around the receptacle, E, or but within the door and around said receptacle, substantially as and for the purpose described.

or both within the door and around said receptacle, substantially as and for the purpose described.

3d. Providing the water vessels with air valves, substantially in the manner and for the purpose described.

4th, The combination of both air and steam valves with the water vessels applied to a safe, substantially as and for the purpose described.

5th, The arrangement of the valves in or on the water vessels or chambers in such a manner that some of the valves will operate, in whatever position the safe may assume during a fire, substantially as described.

6th, The combination of water or other fluid with a solid absorbent substance, as a fibling for a vessel or a chamber used in a safe or other similar fire proof structure, substantially as and for the purpose described.

79,809.—Fire-Proof Structure,—H. H. Bryant, Boston, Mass.

Mass.
I claim in combination with a safe or other structure of a similar nature

ally as and for the purpose set forth. 79,810.—MACHING FOR ATTACHING SPANGLES TO HOOPS OF

SKIRTS.—Albert Carter, Forrestville, Conn.

Skirts.—Albert Carter, Forrestville, Conn.

I clain the swinging gate, c, with its end inclined upwards, in combination

I clain the swinging gate, a, opening, e, and fence, b, substantially as

nd for the purposes specified.

9,811.—MUSTARD PLASTER.—B. I. Crew, Philadelphia, Pa.
I claim a plaster composed of mustard deprived of its fixed oils, and
liked with a solution of India rubbel, or other material insoluble in water

and form. 79.812.—RAILROAD SWITCH.—James Dampman, Lebanon

I claim 1st. The bent switch-rail, Cl C2, and straight rail, C, in combination when the former has the tapering section, N, applied to it by means of rods, ff, an springs, ee, and the latter has the froz, P, and pointed rail-extension P, applied to it, all substantially in the manner and for the purpose described.
2d, The frog, P, and pointed rail extension, P, constructed and adapted to serve the purposes substantially as described.
3d, The switch rod, b, constructed with removable shoulders, j, and with removable griping jaws, J, and screw threads and retaining nuts, substantially as described and shown.

79,813.—GRAIN SEPARATOR.—L. H. Davis (assignor to Casho and Company), Newark, Del.

1 claim 1st, The longitudinally vibrating stair shaped screen. F, provided with recangular perforations, f, in the riser of the stair, as and for the purposes see forms.

pose set forth.

2d, The combination as set forth, of the longitudinally vibrating stair shaped, rectangularly periorated screen, with the ratchet ribs, c, whereby the sit aw escares backward and the grain forward.

3d, The combination, substantially as set forth, of the stair shaped perforated screen, with reciprocating rakes G, which return the grain to the front of the machine after passing through the screen.

4th, The combination substantially as set forth, of the threshing cylinder, ongitudinally vibrating, rising and falling stair shaped perforated screen,

and reciprocating rakes, with the fan and second longitudinally vibrating shaking shoe, for the purposes specified.

5th, The combination as described, with the fan, of the shoe, H, troughs, ki k2, and adjustable back board, K, for the purposes set forth.

79,814.—CORN PLANTER.—Geo. Dickerson, Harveysburg,

79,814.—OURN I BANKER.
Ohio.
1 claim, 1st, The general arrangement of the bracing and adjusting bolts, Pee' and S. sheath, B. tube, K. coverers, D. D., and roller, E., all constructed and employed as described.
2d In combination with the above parts, the relative arrangement of the horizontal trigger, L retracting spring, N, and cam wheel, H h h', when constructed as specified.

Drow Ave — F. P. Dickie. Morristown,

79,815.—Pick and Pick-Axe.—E. P. Dickie, Morristown,

N. J. I claim the twist-pointed pick or pick-axe, herein described. 79,816.—CLOSING VULCANIZING FLASKS.—Horace M. Edson.

Mount Vernon, Ohio.

1 claim the screw of brass or other suitable metal, which, screwed down through a nut in the top of a vulcanizer, will close the flasks inside of the vulcanizer, as above described, and the steam tightpacking box around the screw, to prevent the steam from escaping from the vulcanizer during the process of vulcanizing.

79.817.—STOYK PIPE DAMPER.—L. S. Enos, Almond. N. Y.

I cisim the serrater latch, C, as constructed and arranged, in combination with the oval plate damper. B, substantially as and for the purposes herein set forth.

79,818.—Tool Sharpener.—Samuel Farrenburg, Taylors-

79.818.—Tool Sharpener.—Samuel Farrenburg, Taylorsville, Ind.
I claim, 1st, The arrangement of the wheel, E, cranks, F, pitmen. G, stones, H, H, slides, II, rests, L L, and binders, M, upon the table, A, and operating as set forth.
2d, The arjustable rest, L, and binder, M, for supporting the tool to be sharpened, substantially as and for the purposes arove set forth.
3d, The rist, N, against which the person working the machine may lean substantially as and for the purposes above set orth.
79.819.—Electric Machine.—A. L Fleury, New York city. I claim, 1st, The above described electric machine, composed of the non-nonductor casing. A, isolated plates, C and D, and battery of plates, ffft, etc., arranged substantially in the manner set forth.
2d, The Dattery of plates, if fff, with perforations and exciting points, g g g, connected together, or any other perforated plates, wire cloth, or equivalent, when arranged together and operating in the manner and for the purposes specified.
79.820.—Chimney Cowi.—I W Foard San Francisco Cal

79,820.—Chimney Cowl.—J. W. Foard, San Francisco, Cal.

I claim the ventilator, composed essentially of the pipe, A. and cowl, C, united by the connection-pipe, B, the cowl having the expanded end, c, to receive the air to create the current and the clong sted cylindrical or parallelopipedon discharge end, c', for the purpose described, all the said parts being constructed and arranged to operate together, substantially in the manner specified. manner specified. 79,821.—CHURN.—J. C. Gilbert, Galesburg, Ill.

19,021.—UHURN.—J. U. Gilloft, Galesdurg, Ill.
I claim the revolving-box, B. with perforated dashers, H. H. K. and small lid. F. on the main lid. when the several parts are constructed, arranged, and used to operate substantially as shown and described.
79,822.—ATTACHING PAD HOOKS TO PADS.—Geo. D. Gillett, Meriden, N. Y.
I claim in combination with the pad hook. B, the hook, c, and shoulder, b', with or without the shoulders, b b, as herein shown, and for the purpose described.

-LAMP CHIMNEY ATTACHMENT.-F. N. Gisborne,

73,523.—LAMP CHIMNEY ATTACHMENT.—F. N. GISDOFNE, and Herbert Allmsn, London, England
We claim, 1st, Our improved apparatus for regulating the supply of air to the flame or a lamp or burner, when constructed and arranged substantially as herein described and set forth.

2d. The combination of a di-k or button, F, with an opening valve placed above it, substantially as described and herein set forth.

3d, The combination of the compound bar, d, the hinged valve, c, and perforated rim, a, the whole used in connection with a lamp or gas chimney, substantially as herein hes, ribed, and for the purposes specified.

79,824.—DISH COVER.—H. S. Goff, and F. M. Goff, Middleton, and Conn.

We claim, 1st, The arrangement of the cover, B, of the dish, upon one or now retrictal pieces, A, so that it slides up or down, and can be fastened up or down upon the dish at pleasure, substantially in the manner described above.

2d. The arrangement of the figure hinged at the top of the cover, and op-rated by the spring, G, so as to form a lock, substantially as shown. erated by the spring, G. so as to form a lock, substantially as shown. 79,825.—BIT STOCK.—A. D. Goodell, Florence North Hamp ton, Mass. Antedated July 3, 1868.

I claim ist, A bit-brace in which the clamp is formed of the two picces, D and D', operated by a collar, B, arranged and constructed substantially as shown.

shown. 2d, The adjustable socket C, operated by the collar, A, substantially as

and the adjustance seems.

Shown,

3d, The device for attaching the head consisting of the split s rew, E, set around a neck formed in the journal, and screwing into the head, substanti-

79,826.—Steam Heating Apparatus.—Chas. C. Hall, Port-

land, Me. The open boiler, b, constructed and operating as herein set forth and for the Purposes described.

2d, Combining the air and steam heat within the boiler, by the means of the pipe, n, as and for the purposes herein setforth.

3d, The minute perforations, 1, in the tops of the radiators, as and for the purposes described.

the pipe, n, as add for the purposes herein setforth.

3d, The minute perforations, 1, in the tops of the radiators, as and for the purposes described.

4th, The arrangement of the radiators, e, and connecting those, f, for the purpose of distributing the steam ther in, as described.

3th, The steam heating apparatus, as herein described, in which the liability to accident or explosion is obviated, by the prevention of steam pressure as herein described.

3th The steam heating apparatus, as herein described, which is automatic, that he steam heating apparatus, as herein described, which is automatic, that apparatus itself, without the necessity of any care, as herein described, by means of outlet, h, regulator, p, pipe, c, and waste pipe, m.

79,827.—FRUIT GATHERER.—O. Court Hamilton, and Har vey McKinney, Turti- Creek, Pa.

We claim lst, The combination, substantially as set forth, with a partly open box, of jaws, binged near the edges of the opening, which jaws when closed, complete the box, and thus prevent the spilling of the fruit.

2d, The combination, substantially as set forth, with the receptacle and jaws, of the rounded internal strips, to prevent the crushing of the fruit or the clogging of the jaws.

79,828.—HOTARY STEAM ENGINE.—Caleb Harrison, Milwau kee, Wis. Antedated June 27,1863.

I claim an engine consisting of the serrated disk, B, mounted in a case provided with the two steam passages, L L, and valve, H, and having the shart, D. provided with the endless screw, P, engaging in the wheel, F, all constructed and arranged to operate as shown and described.

79,829.—HARROW.—Anthony Hochistein, Williamsville, N. Y. I claim the combination of the adjustable teeth-supporting beams, B, independent of each other, and set screws, b' b', substantially as and for the purpose described.

79.830.—Working the Pedals of Piano-fortes, etc.—R.

pose described.

79.830.— WORKING THE PEDALS OF PIANO-FORTES, ETC.—R.

H. Hooper. West Roxbury, Mass.
I claim, 1st. The pedal levers and treadles, when constructed substantially as shown, and used with the pedals of a piano or other similar musical instrument, all substantially as and forthe purpose described.

2d. The pedal levers and treadles in combination with the fixed foot stool, A, all constructed and used substantially as described.

3d. The pedal levers and freadles in combination with the stool bar, B, when constructed and used substantially as described.

79.831.—MANURE FORK.—Jacob W. Horst, Annville, Pa.
I claim, 1st. The fork DGE, plyoted to runners, A A, and provided with latching bar, C, substantially as described.

2d. The use of sled runners, A A, emstructed substantially as described, and adapted for sustaining a lork, and also a latching bar, C, which passes through the handle of the fork, substantially as set touth.

79.832.—Machine For Washing Leather.—Adolphus Howard. Wellsiville, N. Y., and George F. Howard, Chicago, ill., assign ors to Geo. F. Howard.

We claim, ist, in a machine for washing leather, the application and use of split brooms, substantially as and for the purposes herein described.

2d, In a machine for washing leather, the claims, D. D', or its equivalent, in combination with the radial arms or disks, C, upon the shalt, G, for the purpose and substantially as described.

79,833.—Machine for Sizing Hat Bodies.—Wm. H. Hoyt (ssignor to himself and Nathan Seeley), Bethel, Conn.
1 claim, 1st, The combination of the vibrating or swinging segment, D, and
the correspondingly for med bed, a a, binged or pivoted at N, it being elastically supported by the spring, O, substantially as herein described and for the

purpose set forth.

2d, Thehandle, R, shaft, E, springs, S, S, and swinging segment, D, when arranged as described and for the purpose specified.

79.834.—PLOW.—Abram C. Jacques, Leavenworth, Kansas.
1 claim, 1st. The adjustable frame, F, and roller, G, to determine and guide
the width of the furrow, substantially as berein described.
2d. The projecting horizontal blade. E, and the vertical spur cutter, d, on
the plow point, as and for the purposes herein set forth.

79.835.—WINDOW SASH STOP.—James G. Jewell, Washing-

on D. C.
I clain the combination of the metallic socketnail, g, with the tooth, F.
he socket nail to be made with a sharp point where it penetrates the wood,
othat it may be driven into its proper place, like a nail or tack, having an
againg groove in its head, in which the tooth, F, rests when the window is

All other corrugated groove, i, in the disk or wheel. A, in combination with the rubber ring or band, B, so as to prevent the rubber from slipping when

79.836.—STOVEPIPE DAMPER.—John Johnson, Atkinson, Ill. I claim a stove damper consisting of one center olate, A made of a circular rm, a, and time wire sieve, with arms, c.c. and two outside perforated plates, B and C, of oval shape, arranged and (a) c. d together as described, substantially as and for the purposes herein set forth.

79.837.—CAR SEAT.—C. P. Kimball, Portland, Me.

I claim, let, Locking or securing the seals of cars so that they cannot be turned or reversed, ether separately or all together, without operating the lever or brake, c, in the mainer ind by the means substantially as set forth.

2d, Operating or reversing in horizontal planes the seats of cars by means of a rackand lever or urake and gears, substantially as and for the purposes

nerein set forth.

3d. Reversing all the seats on one side of a car simultaneously by one lever of brake, as and for the purposes set forth.

4th, Arrangung the scats of cars so that each one of these parate chairs or

seats will turn independent of the other, substantially as and for the purposes herein set forth. poses herein set forth.
79.838.—Machine for Dressing Stones.—Francis L. King,

(19,838.— MACHINE FOR PARSONNESS OF MACHINE STATEMENT OF THE REPORT OF THE RESEARCH OF THE RES

no neans of the upright hollow shafts, DD, and their nopposes.

24. The collars, OO, or their equivalent.

34. The slots in the shafts, DD, with the states with the gears, CC, or their equivalent, when combined with the shafts, DD, gears, CC, self-adjusting frame. L, rotary grinder boxes, NN, and reciprocating carriage, I.

4th, The sectional grinder boxes, NN, the inner frames, gg', the knobs, d'd', the set serw, c', or its equivalent, arranged and operating substantially as and for the purpose described.

5th, The cutters, e e', combined with the rotary grinder boxes, NN, and the carriage, I, arranged and operating substantially as and for the purpose described.

6th, The self-adjusting frame, I, the shafting, RR, the gears, SS, and TT, racks, PP, the side bearings, b b', arranged and operating substantially as and for the purpose described.

7th, The boisting chains, XX, pulleys, shaft, Y, ratchet wheel, W, intermediate gears, p', pawl, r, arranged and operating substantially as described, wh'n combined with the grinder boxes, NN, self adjusting frame, L, collars, OO, and shafts, DO, and shafts, DO, and shafts, DO.

when combined with the grinder boxes, N N, self adjusting frame, L, collars, O O, and shafts, D D. Ste, The chains. P', pulleys, k' k', weights, m' m', used for the purpose described, when combined with the self-adjusting frame, L, grinder boxes, N N, collars, O O, and shafts, D D.

9th, The scroll grinder, with its hollow cone in the center, as represented in ags 6, 7, and 9, made and operating substantially as described.

79,839.—SPRING BED BOTTOM—B. F. Kingman and M. V.B. Shengar Chicago 111

79,839.—SPRING BED BOTTOM—B. F. Kingman and M. V. B. Shepard, Chicago, III.

We claim a bed spring fastening consisting of the metal strap, C. and hoop. D. the former having a nib. E. for holding the spring in place, and a slot, if through which said loop passes, and the latter having projecting fiances F. fastened to the end of the strap, C. and bearing agains the inside of the same, substantially as andfor the purpose herein specified.

79.840.—SUPPOSITORY MACHINE.—A.M. Knowlson, Troy, N. Y. I claim, 1st, The mode or manner herein contained, described, and set forth, for the manufacture or formation of suppositories from the medicated material, while in a cold or solid state or condition, substantially as herein described and set forth.

24. The combination of the plunger, B. with the suppository molds, a and

cribed and set forth.

2d. The combination of the plunger, B, with the suppository molds, a and 34, cach being arranged with the supply tube of cylinder. A, in the manner and for the purposes substantially as herein described and set forth.

3d, The employment of the f. ame, H, having combined therewith the mold 3d, The emrloyment of the f. ame, H, having combined therewith the mold or die, G', the supply channel, c. and the cap, I c antaing the vent, e, each being arranged in the manner and for the purposes substantially as herein described and set forth.

4th, The arrangement and combination of the die or mold, a, with the cap, E, in the manner and for the purposes substantially as herein described and set forth.

et forth.

9,841.—RADIATOR.—J. A. Lakin, Thompsonville, Conn.

I claim the peculiarly shaped radiators herein shown, open at the lower notes and connected in bairs by means of the pipes, B and B, substantially a the manner and for the purpose perein shown. 79,842.—Cast Iron Car Wheel.—George G. Lobdell, Wil-

79,842.—CAST IRON CAR WHEEL.—George G. Lobdell, Wilmington, Del.

I claim a cust iron car wheel having a hollow rim, with transverse strengthened ribs, a, where the flanged side of the said hollow rim is made straight, and at right angles, or nearly so, to the said internal ribs, as set torth, for the purpose specified.

79,843.—FRUIT JAR.—Wm. A. Loder, Rochester, N. Y.

I claim a sealing ring for fruitjars formedfrom a strip or strips of paper or other flexible material, coated on the inside with gum or wax, for covering the joint between the cover and jar, as herein set forth.

79,844.—Hot Air Flues in Stoves.—C. K. Marshall, New Orleans, La. Anted ted July 4, 1888.

Orleans La. Anted ted July 4, 1868.

Claim, 1st, Constructing the pipe, D, of fire clay, soapstone, or other like material, with a tapering flue, substantially as described, and forthepurpose

material, with a tapering nue, suostantially as described, and for the purpose specified.

2d, Constructing the stove, A. with openings, a b, in combination with the pipe, having e-bows, d and d', when the same are constructed of fire clay soapstone, or other like material, and arranged so as to operate substantially as described and for the purpose specified.

79.845.—Coal Grate and Stove.—C. K. Marshall, New Orleans, La. Antedated June 27, 1868.

I claim, ist, The tile, C. with its internal grooves, c. in combination with pipes, E and F, or their equivalents, and the grate, B, when the same are constructed and arranged substantially as described and for the purpose set forth.

forth.
21, The tile.C, with its internal grooves.cc, in combination with the pipes
E and F, and damper, G, when the same are constructed and arranged substantially as described and for the purpose set forth.
3d, Arranging in the bottom of an open fire grate, a hollow trianglar tile,
D, when the same is connected with openings in the side of the grate, substantially as described. stantially as described. 79,846.—STAIR RODS, ETC.—Wm. M. Marshall, Philadelphia,

79,846.— STAIR RODS, ETC.—Wm. M. Marshall, Philadelphia, Pa., assignor to himself and J. B. Alexander, Washington, D. C. I claim, 1st. The use of glass tubing, when supported by metal or other casing, mountings in relief, of metal or other material, or the rabbeted supports, of metal or other material, substantially as described and for the purpose set orth.

2d, The filling of silvered or gilded glass tubes with plaster, cement, or their equivalents, combined with wood or metal rods, substantially as described and for the purpose set forth

79,847.—Eye Cup.—Benj. K. Maltby (assignor to Charles R. F sdiek). Cincinnati, Ohio.

I claim the use of tubes that serve as receivers for exhausting the air around the eve, in combination with spectacles, with or without magnitying power, designed to elongate the eye, and by proper use to prevent and also to cure long sightedness. Ing SIGNEGUESS.

— REFINING AND SMELTING ORES.—James P. McLean,

New York city. Antedated July 3, 1888 I claim, 1st, the dry gas or gases prepared and applied to smelting or refin ing eres, subtantially as above set forth, or otherwise prepared, to suit the exigencies of the time and place.

2d, I claim the retort, B, cleanser. C. dryer, D, gas chamber, E, neck, V, with pipes, G G' G'', and cocks, m n o P u and X, prepared and arranged in the manner and for the purpose set forth and shown to the drawings, or otherwise arranged, substantially as described.

79.849.—Machine for Separating Iron from Sugar.—

John Meyer. Portland. Me.

I claim as an improvement in the process of filtering strup in manufacturng suzar, the improved filtrator i erein shown and described, having the
uctallic seve, for the purpose of eliminating the particles of iron which have
ecome mixed with the charcoal in the process of preparing the same.

79,850.—Instrument for Stretching Boots and Shoes.—

George Munro, Philadelphia, Pa,
I claim, 1st, The combination of the sections, AB, block, C, screw spindle,
D', nut, G, hevel wheels, h and h', and spindle, D, the whole being arranged and operating substantially as and for the purpose herein set forth.
2d, The block, C, consisting of two parts, e and e', secured together by screws, f, and arranged for the reception of the bevel wheels, h and h', and spindles, D and D', as described. 79.851.—DITCHING MACHINE.—Patrick O'Conner and Morris

Collins, Decatur, III.

Collins, III

79,852.—Horse Power.—George Oerllein, Utica, Minn.

1 claim, 1st, A horse power arranged on w heels substantially as described.

2d, Master wheel, C, supporting frame, Q, step, R, arms, S, center shaft, T, and draft levers, U, in combination substantially as described.

3d, Draftlevers, U, chains, V, toothed wheels, shafts, and dogs, W, in combination with master wheel, C, substantially as described.

4b Tumbling rod shafts, O M and K, arranged and combined substantially as described.

as described.

5th. Whe-ls, D and G. and master wheel, C. with their connections, arranged and combined, substantially as described.

6th. Braces, X and Y, in combination with frame, A, substantially as and for the purpose described.

79,853.—PAINTERS' HOOK.—John W. Pattee (assignor to him-

self and Ephraim Elliott). Thoraton, N. H. Islam the combination and arrangement of the arms, c and d, with their projections, e and reychook, g, or its equivalent, and main hook, i, with or without the projection or barbs, when arranged substantially as described and for the purposes fully set for the.

79,854.—WIRE AND PICKET FENCE.—Elias C. Patterson, 19,594.—WIRE AND FICKET FENCE.—Elias C. Fatterson, Rochester, N.Y.
1 claim a wire and picket fence in which each picket is provided with two or more pairs of oblique slots or norches for wires, at differ int hights, the notches of each pair in the same picket being also at different hights on opposite sides, and inclined, the one upward and the other downward, the pickets being so arrang d toat each wire of a pair shall alternate from a high to a low not in, and vice versa, in the successive pick-ts, and the two wires of each pair being tightened by being seized together at their crosslags, substantially as described.

79,855.—WAGON BRAKE.—David Philips, Cordova, Ill.
I claim the brake consisting of the roler har, B, having the blocks, d, pivoted thereon, with the ever.D, supports, C, and chains, F, when said parts are constructed and arranged to operate substantially as described.

79,856.—SEWING MACHINE.—Hiram Plummer, Brooklyn,

19,806.—Sewing Machine.—Hiram Plummer, Brooklyn, N. Y., assignor to bimself and Wm. E. Doubleday & Co., New york city I claim, 1st, The combination a reciprocating perforating needle with the folder, o, coust acted and operating substantially as described, and shutter r, or its equivalent, for the purposes and as set forth.

2d, A feeding mechanism action in the direction of the needle's length, in combination with a folder and reciprocating perforating needle, substantially as specified.

3d, A perforating needle, reciprocating in a plane parallel to that on which the fabric to be sewing is placed, in combination with a shuttle mived in a raceway in the bed, and with mechanism for presenting the material to the needle in a folded condition, substantially as set forth.

4th, The swinging plate, I, carrying the folder, o, in combination with the feeding point, s, and mechanism, substantially as specified, for giving motion to the parts.

79.857.—GATE.—Jerome Potter, Pierceton, Ind. I claim a sliding gate having a long stile. I, and a shortestile, J, in combina ion with a stationary bar, D, and movable bar, E, the whole being constructed and arranged substantially as and for the purpose set forth. 79,858.—Machine for Making Wooden Boxes.—Reuben

Ramsdell, Rindge, N H.

I claim in com-ination with the former block or its equivalent, the groove or grooves, d, for turning the nail points, substantially as set forth.

Also in combination with the block, c, the jaw block, e, with its clamping or gnping jaw, g, and the spring, h, substantially as set forth.

Also combining with the jaw, e, and the block, c, the adjusting screw, k, substantially as and for the purpose set forth.

79,859.—PADLOCK—David F. Randall, Chicopee, Mass.

79,809.—FADLOCK — DAVIG F. RAMGAII, Unicopee, Mass.
I claim, ist, The arrangement of the detent, O, in the curved dipression beheath the beel of the shackle, so that the detent cannot be removed without deraching the six as le from the body of the padlock, as set forth.

2d, The combination of the padlock body, for med as described, slotted and serrated bolt. B, spring, H, detent. O. and shackle. C, with the clongated and rigid key shank, T, the whole constructed and operating substantially as de-

79,860.—TEA KETTLE.—Ezra Ripley, Troy, N. Y., assignor to himself and w. C. Davis & Co., Cincinnai, Ohio.

I claim, 1st, A tea kettle or other culinary vessel having a hinged bail and an edge wise swinging Cover, so biaged or pivoted, and made flat, or so shaped on top that the cover forms a convenient shelf for supporting and warming other culinary vessels of larger diameter than the cover.

2d, in combination with a cover formed and hinged as specified in the preceding clause, so constructing and applying the bail or lifting bandle and the rear bail lug, that when the bail is turned down it will permit the cover to swing over it, as described.

3d, in connection with a flat topped swingingcover, the lug or handle, G, projecting horizontally, in such a manner as to offer no obstruction to placing a vessel upon said cover.

79,661.—Detachable Muzzle for Shot Guns.—S. H. Roper, Roybury, assignor to the Roper Repeating Rifle Company, Am-

ROPER ROYALT ASSISTANCE TO THE ROPER REPEATING RISE COMPANY, Amhers, Mass.

claim a contracted ring or ferrule, substantially as described, attachable and detachable from the muzzle of a shotg un by means of a screw joint

to and detachable from the mnzzle of a shotg un by means of a screw Joint for the pupose of diminishing or increasing the scatter of the shot, substantially as shown and described.

79,862.—Door Straightener.—O. C. Ross, Penfield. N. Y. I claim the device for straightrning doors consisting of sections, D. D. connecting intermediately at b, and engaging at the extremities with lugs, C.C. by means of angles, I.g, and ribs and slots, b. I, substantially as herein set forth.

forth.

79,863.—STEAM ENGINE.—W. G. Savage, Knoxville, Iowa.
I claim, 1st The arrangement of the lever, S, and spring, x, with the shaft, F, and wheel G, by which means the motion of the engine is reversed, substantially as set forth.

2d, The combination of the valve. C, with the head, A, having a hub, b, and the cynnder, D, with its steam press, B a, constructed and operating substantially as specified.

79,864.—GUDGEON FOR BOOM.—Charles Sayward, Gloucester, Mass.

Mass.
I claim the arrangement of the swivel, bluge, yoke, and bolt, the swivel in tervening between the boom and the hinge, substantially as and for the pur

received between the boom and the hinge, substantially as and for the purpose specified.

79,865.—Grinding Plate for Grist-Mill.—Henry Shaw

and WilliamD. Leavitt, New Orleans, La.

We claim the combination and arrangement of the cast iron grinding plate,
being gliamond shanen projections. A, the unyleiding, non-conducting
sper packing, O, and back plate D, all constructed and secured together in
the manner and for the purpose herein described. 79,866.—FURNACE FOR MELTING METALS.—William Shea

and L. D. Harvey, Harrey, Mich.

and L. D. Harvey, Harrey, Mich.

we claim the putting of pipes into cast iron plates, substantially as and for be purposes above set forth. the purposes above set forth. 79,867.—JOURNAL BOX.—William Sherburne, Charlstown,

Mass. 1 claim, 1st, The bolt, E, constructed as and for the purposes above des-

on.
The bolt, E, in combination with the jaw, m, and oil box, B, substar
y and for the purpose above specified.

cribed.

2d. The bolt, E, in combination with the jaw, m, and oil box, B, substantially and for the purpose above specified.

79,868.—Type Writing Machine.—C. Latham Sholes, Carlos Glidden and Samuel W. Soulé, Milwaukee, Wis.

We claim, 1st, A circular annular disk, C, with radial grooves and slots, or grooves alone, to receive and raide the type bars or hammers, so that they inevitably and in cessar life with grifts the tipe central point with perfect accuracy, when made and operated for the purp se, and as described.

2d, The combination of a circular, amular, radially slotted or grooved disk, with type pars if ted therein, and pivoted thereto, when made operated for the purpo e, and as described, and the combination of a ratchet, or regular and equidistant teeth or cogs, with rode and levers to the keys, so that the paper carriage will be moved a certain and exact distance every time a key is struck, when made and operated for the purpose, and as described, 4th, The clamp or rod. u, in combination with the hinges, h, and the catches or buttons, m, for bolding the paper securely down on the carriage, when made and operated for the purpose, and as described,

79,869.—Bridge Block.—J. R. Smith, Springfield, Mass.

I claim, in combination with the wrought ron locks, D. D. connecting the heads, a a, of the chords, the cast iron block, filling in closely around the joints, substantially as and for the purpose herein described.

79,870.—WATER WHEEL REGULATOR.—Hervey D. Snow,

79,870. - WATER WHEEL REGULATOR.-Hervey D. Snow

Bennington, Vt.

I claim the adjustable stops, g g', in combination with the pawls, r s, sat below the fi, and lange, t, moved by a connection to the governor, substat.

trei wheel, I, an hange, t, moved by a connection to the governor, saustantially as set forth.

79,871. —HARVESTER.—Welcome Sprague, Farnham, N. Y., assignor to himself and Bernard H. Meuble. Antedsted June 30,1888.

I claim so constructing a reaping machine that the grain, after it is cut by the knives or cutiers will be collected and formed into a rope, or equivalent, and an lank shape be left, in the rear of the machine upon the ground.

and in that shape be left, in the rear of the machine upon the ground.

79,872 — CARD CYLINDER. — Joseph M. Stone, (assignor to himself, George L. Davis, and John A. Wiley), North andover Mass.

1 claim a card cylinder, formed of a thin shell, with three or more spiders or sets of arms in the same, all cast in one piece, substantially as described, as a new manufacture.

79,873.—Hoisting Gate.—George Stowe, Braceville, Ohio.

19,075.—HOISTING GATE.—George Stowe, Braceville, Olifo. I claim, ist, The supporting bars, B and C, constructed with a slot, and operating substantially as described and specified.

2d, The grooves, D and E, in the ends of the fire box, constructed and operating as herein described.

3d, The bottom grate, H, provided with anib or guide, or its equivalent, for the purpose of guiding the grate, and constructed and so arranged as to be hoisted and dumped, substantially as shown and described.

79,874—HARNESS BUCKLE.—W. H. Taylor, Baldwinsville, N. Y.

N. Y.

I claim the combination of buckle and loop, substantially as and for the purpose specified. 79,875.—Oil, Tobaccc, and other Presses.—Enoch Thomas

Craigsville, Va.

1 claim, ist, The combination and arrangement of the double acting torgle evers, EF and FF with the follower frame. D, and the reciprocating frame, I, substantially in the manner berein described, and for the purpose speci-

fied.

2d. The combination and arrangement of the sectors, J J and J' J', rocking shatts. H H', shaft, K. and eccentric wheels, L L, in relation to each other and to the reciprocating frame, I, toggle levers, E E' and F F', substantially as herein described, and for the purpose specified.

79,876.—WEATHER STRIP.—James H. Thomas, Lynn, Mass. I claim the combination of the flexible elastic roll, D, with the short cylinder, K' K' K', &c., and the spindle, H, arranged substantially as described, and for the purpose set forth.

79,877 79,877.— LATHE REST.— William Thompson, Worcester,

mass.
I claim connecting the nut, E, to the poppet block, C, by means of a screw passing through a slot in the side of the rest B, in the manner herein described.

cribed.

79,878.—FILE CUTTING MACHINE—Thomas E. Thurston (assignor to himself and James Kearrey) Newark, N. J. I claim, plate, A having the part, e, cast or forged there with, in combination with parts, a b, and B and E, all combined and arranged in the manner and for the purpose set fortb.

Also the improved adjustable stem, D. the improved parts, E and F, the improved part G, and the adjustable roller, u, when arranged and used in a file cutting machine, which has thereon the improved part, e, all constructed substantially as bereinabove set forth.

20,070

substantially as hereinabove set forth.

79,879.—Lock Boll.—George Washburn, New York city.

Antedated June 27,1868.

I claim, ist, The combination and arrangement of the slide bolt. C, provided with the rack, E, the case. G, pinion. F, and shaft, H, provided with the bolt. I, and collar.e, all operating as described, for the purpose specified. 2d, The key, J, provided, with the thumb leyer-11. having the plue, 8, 85.

2d, The key, J, provided with the thumb lever, I, having the pin, g, attached, in combination with the shaft or arbor, H, of the pinion, F, said shaft having the hole, f, substantially as and for the purpose specified.

79.880.—GANG PLOW.—Jas. T. Watkins, Santa Clara, Cal. I claim, 1s', The plows, HH, in combination with the blocks, E E', the holding screws, I I, by which the plows are adjusted, and the wedges, a a, constructed and arranged substantially as described.

2d, The blocks. E', mounted upon the axies, C C', and the bent arms, J J', with the set screws K K', for regulating the depth of the furrows, substantially as described.

3d, The bent arm, N, and connecting rod, O, with the handle, M, and the catch, P, for diseuraging the plows, substantially as described.

4th, The bent axie, R, with the nut, R', and the screw, S, for raising and depressing the furrow wheel, substantially as described.

79,881.—HARVESTER RAKE.—Cyrenus Wheeler, Jr., Au-

burn, N. Y.

I claim, 1st, The construction and arrangement of the chain sheave or pulley, whereby it is adapted to serve as the rotating head to which the rake

ley, whereby it is adapted to serve as the rotating mean to which and reel arms are pivoted.

2d. The arrangement of the endless chain and the driving and guide pulleys, for driving the rake, arranged on one side of the drive wheel, frome pulley or sheave on the opposite side of said wheel, substantially as described.

3d, The rake cam or track made in one piece with the base plate or yoke, and attached to the rake stand, substantially as described.

4th, Mounting the friction rollers that traverse the guiding cam in detachable boxes or stands, located in recesses or chambers fermed in the rake and reel arms.

reel arms.

5th, Lunking the rake and reel arms together in pairs, in such manner that the angle of relation of said arms may be varied by adjusting the point of connection of the links therewith at either end.

6th, The rake and reel arms provided with lugs or ears, having set screws for adjusting the hight of said arms in passing over the platform.

7th, The guiding sheave or pulleys in front of the drive wheel, around which the rake driving chain passes, made ad ustable for the purpose set forth.

8th, The main frame, or arm, A', thereof, extended in rear of the drive wheel, and affording a point of support for the seat bar, substantially as de-79,882 — Washing Compound.— H. K. White, Conneau

township, Pa.

I claim the above described composition for washing and cleansing clothing and other goods, compounded in about the proportions specified.

79,883.—APPARATUS FOR MOVING HEAVY BODIES.—Charles

Whittaker, Milwankee, Wis.

Whittaker, Milwankee, Wis.

A mounted to leain the portable holsting apparatus crussisting of a frame, A, mounted to wheels, with a series of vertical screws, E, with the bars, F, and stirrups, B, arranged to be operated by bevel gear attached to the horizontal shafts, I, all substantially as described.

79.884.—Portable Fence.—Henry Willard, Ripon, Wis.

79.884.—PORTABLE FENCE.—Henry William, https://dx.di.edu.com/henry-liam.com/henry

79,886. — FEED RACK. — Morgan Workman, washington township, Onco.

Iclaim in the construction of a feed rack, the arrangement of the removable troughs, B, and hinged covers, b, substantially in the manner and for the purpose as herein shown and described.

79,887.—LAMP.—Ferdinand Adt (assignor to himself and Ehsha Turner), Wolcottville, Conn.

Iclaim a reflector placed between two or more deflectors, and within the chimney, so as to reflect the light light from the flames in the manner specified; and in combination with such deflectors and reflectors, the air tube, for the purposes set forth.

79,888—Inking Apparatus for Color Printing.—Thos.

I. Ravles Richmond, Ind, assignor by these assignment to the Ameri-

79,888 —INKING APPARATUS FOR COLOR PRINTING.—Thos.
L. Bayles, Richmond, Ind, assignor oy tresne assignment to the American Patent Chromatic Printing Press Company.

It is a series of adjustable in the part of the central bul, B, a series of adjustable in the part of the central bul, B, a series of adjustable in the part of the central bul, B, a series of adjustable in the part of the hock of bars, a clamp for securin; the bars at the ends without the interventica of any intermediate lateral supports, and stantially as set for the lock of bars, B and e, for burpose set for the interventical burs, a land e, for burpose set for the line of the part of the hock of bars, B and e, for burpose set for the lateral support of the contact with cylinder, 3d, The c ms, b and b, in combination with bars, I and I', and rollers, C and C, substantially as described and for the purpose set forth.

79,899.—FRUIT CAN.—Charles Becker, John A. Ross, and Jacob Seuernagel, Allegheny City, Pa.

We claim the arrangement of the corrugated lip, D, shoulder, o, flange, I, and recess, s, constructed, arranged, and operating as berein nescribed and for the purpose set forth.

79,890.—MANUETACTURE OF FRUIT CANS.—Charles Becker.

for the purpose set forth.

79,890.—MANUFACTURE OF FRUIT CANS.—Charles Becker,
John A. Ross, and Jacob Steuernagel, Allegheny city, Pa.

We claim the method herein described for forming and providing fruit
cans with an inner fange, for the purpose set forth.

79,891.—THILL-COUPLING.—Henry M. Beecher (assignor to

H D. Smith & Co.). Plantsville, Conn.

I claim the improved shaft connection, as made with the lips, a a, to its asse, and in other respects substantially as described and represented.

19,892.—MANUFACTURE OF GLASS.—Leon Bemelmans and

Laurent De Give, Atlanta, Ga. We claim, 1st, The process, broadly, of manufacturing window and mirror glasses, of whatever thickness and size, by pressing the m lited glass between two parallel and pousued plates, whatever may be the mode of pressing em-

2d The machine to carry said process in operation, called window and mirror-glass-manufacturing machine, beretofore described, or any other substantially the same, and which will produce the intended effect.

79,893.—MANUFACTURE OF GLASS.—Leon Bemelmans and

79,090.—MANUFACTURE OF GLASS.—Leon Demethann and Laurent De Give, Atlanta, Ga.
Weclaim a machine, called window and mirror-glasses-molding machine, here to fore described, or any other substantially the same, and which will produce the intended effect.
79,814.—CIRCUIT CLOSER.—William J. Biggar and John C.
Blood Connects Observed.

Blood, Conneaut, Ohio.

Blood, Conneaut, Ohio.

Blood, Conneaut, Ohio.

The calinit the combination of the board, A. the brass and iron strips m n, the sliding bolt, c. the spring lewer, c., and the posts, b b', with the insulated wires, a a', arranged and operating substantially as and for the purpose hereorbed.
5.—ELECTRO-MAGNETIC BURGLAR ALARM.—William J.

Biggar, John C. Blood, and Del M. Griswold, Conneaut, Ohlo, who can the combination and arrancement of the magnets, B. B., armature, W. Petakur, B. B., armature, W. Petakur, B. B., armature, W. Petakur, B. B., armature, W. B., and catch. r., hinged ever easth, b., bell, K. bammer, H. hanlie, m., spiral springs, s. e, carch, p., winging holder, N. rubber, O. stand, M. lamp, L. weigir, F., cord, j., shafe, G., vilres, g., and circuit connections and breakers, all substantially as and for be purpose herein shown and described.

the nurpose herein shown and described.

79,896.—APPARATUS FOR INSULATING TELEGRAPH WIRES.—
Samuel C. Bishop and William W. Marks, New York city.

We claim the combination of the dies, B. C. with the feed oringe, a, when the back or male die, B, is periorated for he passage, in a separated manner, of duplicated wires, and so arranged, relatively to the feed of the insulating material through the orifice, a, as that the wires, in their passage to and through the front die, C, are caused to travel in a plane which is transvere or air ight angles to the feed orifice, a, substantially as and for the purpose nergin set forth.

nerein set forth.

79,897.—KNITTING MACHINE.—Charles W. Blakeslee, Watertown, Ebenezer D. Beecher, Westville, and Anthony G. Davis, Water-

town, Ehenezer D. Beecher, Westylle, and Anthony G. Levis, town, Conn.
We claim the combination, with the heedle-actualing cam, of an endless belt or chain for driving it, substantially as set forth.
Also the combination, with an endless chain or belt of an arm, which, whether revolving con'inquesty or reversing its movements around the machine, substantially as set forth, will impart a reciprocating motion to the thread guide.

Also, the combination of the traveling needle-operating cam with the guide bars, M M, with which it engages and disengages, substantially as set forth.

guide bars, M M, with which it engages and uncupages, account and forth.

Also, the narrowing and widening stops, constructed with cam surfaces, as described, for insuring the connection of the thread guide with its driver, and its disconnection therefrom, substantially as set forth.

Al to, the combination of the thread guide, spool, and stops with the removable bar which supports them, constructed substantially as and for the

purpose set forth.

Also, the combination, with a knitting machine, of a detachable automatic traveler for narrowing and widening, actuated by a traversing finger or projection, substantially as described.

Also, a narrowing and widening device, constructed and operating substantially as set forth. 79,898.—Spectacles.—Erastus S. Clapp, (assignor to himself

and issac Chenery), Montague, Mass.
I claim, in combination with a spectacle frame, the rod, D, with glass rings nucleases attached thereto, and made adjustable, substantially as and lor

the purpose herein shown and described.
79,899.—Machine for Making Roving.—Nathan F. Clark, (assignor to himself and George H. Cook, Lawrence, Mass.

I claim the combination and arrangement of the tube, F, and bobbin rest, D, constructed as described, with the bolster A, the tube, F, huving the oil passages, b and c, for convering the oil to the surface of the spindle and to the interior of the bolster, substantially as and for the purpose set forth.

79,900.—JOURNAL Box.—Richard Colborn and George W. 79,900.—JOURNAL BOX.—Richard Colborn and George W. Gould, Norwich Conn. We claim, 1st. The combination with the bottom, A, the top, B, of the box, of the end grooves, C C, longitudinal grooves, b g, cross greoves, c c, and the wicks, m, with or without grooves, 4 4, substantially as and for the purposes set forth.

2d, The combination, with the parts, A and B, of the end grooves, C C longitudinal groove, b, cross groove, c c', and wick, m, substantially as and for the purposes herein set forth.

3d, The combination, with the metal part, e, and groove, b, of the groove covering and Babbit supporting plate, 1, substantially as and for the purposes set forth.

the purposes set forth.
79,901.—EMBROIDERING MACHINE.—Jacob Einhorn, (assignment)

19,901.—EMBROIDERING MACHINE.—Jacob Einhorn, (assignor to the bimelfand Jacob Eugster), New York city.

I claim, 1st, The arrangement of embroidering mechanism, substantially as described, in a jointed, swinging horizontal frame, D.E. so that ornamental designs may be produced without moving the fabric after each stitch, substantially as herein shown and described.

2d, The longitudinally adjustable frame, B, in which the fabric is held, in combination with the jointed swinging needle frame, D.E. made as set forts. 3d, The rotating cam, M, rod, k, and lever, l, and hook, L, in combination with the tube, J, and with a spring on or within the same, all made and operating substantially as herein shown and described 4th, The oscillating lever, n, o, in combination with the crank shaft, I, and reciprocating holder. N. all made and operating substantially as herein

ath, The oscillating lever, n. o, in combination with the crank shart, 1, a nd reciprocating holder, N. all made and operating substantially as herein shown and described, for the purpose of operating the needle in the manner specified.

5th, The longitudinally adjustable oscillating lever, n, in combination with the levers, PP, and the spring catch. •, or its equivalent, all made and operating so as to allow the needle to be easily thrown in or out of gear.

6th, The sprincation of the hook, L, and needle, 0, operated by the mechanism described for working a chain stitch, for the purpose specified.

79,902.—MEAT CUTTER.—C. A. Foster, Fitchburg, Mass., assignor to himself and Harlan P. Derby.

I claim, 1st, The combination of the chopping knife, its slotted arm, H, and sliding blocks, 4, with the grooved wheel, in which said blocks move, and the pin, upon which the said arm is bung, substantially as and for the purposes shown and set forth

sliding blocks, 4, with the grooved wheel, in which said blocks move, and the pin, upon which the said am is bung, substantially as and for the purposes shown and set forth.

2d, The combination of the chopping knife, its vibratory arm, and the grooved or slotted wheel for actuating the same, with their supporting frame arranged to overhang or extend across the revolving meat tub, substantially in the manner and for the purposes shown and described.

3d, The combination, with the cross plees, C, and stands, B, B, and F, of sha', E, wheel, G, stand, D, stud, c, and arm, H, substantially as and for the purposes set forth.

purposes set forth. 79.903.—Fire Kindling.—Charles Gaudin, Zoe Granier, and Jules Granier. San Francisco, Cal.

Jules Granier. San Francisco, Cal.

Granier Calm forming a fire kindling ball upon the end of an inflammable wick for the purpose of ready ignition, as herein shown and described.

79,904 - FAGOT OR PILE FOR MANUFACTURING RAILROAD RAILS.—William Hayward and John Lees, Danville, Pa.
We claim the "pile," as represented in the drawing, either with or with
out the part, A, substantially as shown, and for the purposes set forth.

79,905.—Machinery for Making Wire Heddles.—Emil T. Hertle and Richard Thompson, New York city.
We claim, 1st, Arranging the head stocks b' b' which support the inner or

adjacent ends of the cylinders, a al, in the manner described and for the purpose set forth.

2d, The combination of the movable cylinders, a al, the rods, ii, bars, hh, and cam pieces, g g', substantially as described and for the purpose set forth.

79.906.—FRUIT PICKER.—Leander Hotchkiss, Torrington, assignor to Elisha Turner, Wolcotville, Conn.

Iclaim a fruit gatherer formed of a jointed segmental ring, that closes upon the fruitin the act of pulling or cutting the same off, substantially as set forth.

set forth.
79,907.— MILK CAN.—George A. Huggins (assignor to himself and H. W. Shepard, Mannsylle, N. Y.
I claim the speet metal body. A, and cast or malleable bottom, B, when the latter is groved so as to form a seat for the former, and at the same time furnish an outer rim for the protection of its lower edge, when the same are combined and attached, substantially as described as and for the purpose specified.

Loom.—John P. Humaston (assignor to himself and

Hamilton E. Towle), New York city.

I claim, 1st, The combination of the lay and the pivoted and vibratory shut let carriers with connecting rods and levers, receiving and imparting their movement from a single revolving cam shatt directly to said lay and shuttle carriers, substantially as here in shown and described.

2d, The construction of the two shuttle carriers, vibrating on an axis common to both, when the same are provided with shoulders or jogs, acting in the manner and for the purpose set forth.

79,909.—Wagon SEAT.—Almon Hunt and C. C. Chapman,

Macomb, Ill.
We claim the springs, B Bl. cross pieces, b c, hooks, bl, pins, d, and seat, C, the whole being combined and arranged as described.
79,910.—INKING APPARATUS FOR COLOR PRINTING.—Joshua

79,910.—INKING APPARATUS FOR COLOR PRINTING.—Joshua Hunt, Richmond, Ind., assignor, by mesne assignments, to The American, Patent Curomatic Printing Press Company.

I claim the combination of the type hed, B, the two forms, and the type inking rollers, E G, and the adjustable cam tracks, I F, whenso constructed and arranged in relation to the lak distributing rollers, that different colored inks, first disposed in bandson the type inking rollers, that different colored has of transferred for the other form, so that by two impressions, the sheet of the form being reversed, two completed jobs may be printed 1: which the letter press is printed in more than two colors, and the border in one color, substantially as set forth.

79,911.—Passenger Register.—Thomas S. Huntington and A. Fulton, Bellefontaine, Obio.

79,911.—I ASSENGER KEGISTER.—I Hollias B. Hulling and Market A. Fulton, Bellefontaine, Ohio.
We claim, 1st The binged or pivoted levers or arms, D, when used for operature a register or indicator, in connection with the rotating disk, C, and cams, d'd's substantially in the manner and for the purpose berein set forth.
2d, The combination of the revolving disk. C, the fixed cam, F, and the levers or arms, D, substantially in the manner and for the purposes set forth.
3d, The combination of the cap, E, and the fixed cam, F, for the purpose of operating the arms, D, in the manner and for the purpose set forth.
4th, The combination of the cams, d, and the disk, C, for the purpose set forth

ath, The combination of the leans, d. and the disk, C. for the purpose set forth.

5th, The combination of the levers, J.K. L. the spring, M, and the register, substantially in the manner and for the purpose set forth.

6th, The register ring, g. with its cylinder, k, and slot, l, when constructed in the manner and for the purpose specified.

7th, The combination of the register rings, the slot, l, and the pawls, g'h'l', in the manner and for the purpose specified.

8th, The aims, D, when constructed and operated by means of the fixed cam, F, on the cylinder, E, in the manner and for the purpose specified.

9th, The register rings, so constructed that, on their outer surfaces, figure stetters, etc., may be placed, and on their inside a ratchet and fiange, as and for the outpose herein described.

10th, In combination with the rotating rings, the reciprocating shaft, I. and pawls, g'h'l', when constructed and operated substantially as described.

for the purpose herein described.

10:h, in combination with the rotating rings, the reciprocating shaft, I. and pawis, g'h'i', when constructed and operated substantially as described.

79:912.—MACHINE FOR PUNCHING AND SHEARING—Michael

A. Lanagan, Brooklyn, N. Y., assignor to himself, John Dailey, Robert Russell, and Andrew Mercein.

I claim, ist, in combination with the punch, C, the plate carrying bed, A, arranged to slide crosswise of the punch, and provided with racks or teeth, i.j. on opposite edges of it. reverse pawls, g h, concected by arms, gl hi, with a vibrating shaft. H, slotted levers, g2 h2, in connection with said pawls, and beam lever, g3, for throwing either pawlin gear with the bed, or disconnecting both therefrom, to reverse or stoot the motion of the bed without changing or arresting the movement of the punch, essentially as specified.

2d. The combination, with the punch, C, of the intermittenity fed bed, A, and shears, MN, arranged, as described, for operation together automatically to punch the plate in a regular or uniform manner, and to trimor dress tis edge as it is passed through the machine, substantially as herein set forth.

3d. The combination, with the sistens, MN, and intermittenity fed bed, A, of the double pawl, m3, and accompanying mechanism for giving a reverse action to the bed, or arresting its motion without changing or stopping the shears, essentially as specified.

79.913.—SNOW PLOW.—Samuel Lewis (assignor to William H. Cammeyer), Brooklyn, N. Y. Antedated July 5, 1882.

I claim the combination of the lever, 9, axie, 10, gearing, 78, chains, 11, 12, 13, pulleys, 6 6 6 6 6, legs, 14 14 15, and guides, 17 18 19, as set forth, to the body of a "snow plow," as ordinarily constructed, all as explained and specified.

79.913.—APPARATUS FOR FEEDING FUEL TO FURNACES.—

John McCormick, Louisville, Ky., assignor to bimself and M. W. Ferguson. Antedated July 3, 1882.

I claim, ist, The arrangement of the double acting screw, c", within cvlinder, C, when constructed and used subs

det, U, when constructed and account and wheels, e.e., within the 21. The arrangement of the concaves, e'e', and wheels, e.e., within the spout, E, through which fuel is fed to a furnace, substantially as and for the purposes indicated.

3d. The arrangement of the bifurcated spouts, E E, astride of the boilers, A A, substantially as and for the purposes described.

4th, The instrument, i, when used in a feeding spout for the purpose of directing the field to its proper destination, and constructed and operated as above described.

above described. Solving plates, m m, substantially as and for the purpose specified. 6th, The arrangement of the vibrating grate, G, with the horizontal boilers A A A, in such a position that it vibrates back and forth traversely under them, for the purpose of leveling the fuel beneath them, substantially as de-

them, for the purpose of leveling the luci beheath them, substantially as described.

79,915.—RAILROAD TELEGRAPH ALARM.—G. Natcher, Sidney, Ohio, assignor to bimself and I. Marks & Co.

1 claim, ist, A telegraphic alarm for railroads, which is capable of indicating at each station the progress of the train along the track, and also of giving a suitable alarm along the entire track, both infront and rear of said train, by means of the signal box28, F, gongs, G, hammers, H, levers, J, tappers, K K', and rods, O, or their mechanical equivalents, the whole being arranged and operating substantially as herein described, and for the purpose set forth.

2d, In combination with the elements, F, G, H, J, K, K', and O, of the preceding clause, the spring guard, L, for the object set forth,

3d, In combination with the elements, F, G, H, J, K, K', and O, of the first clause, the indicator, P, for the purpose herein described.

79,916.—AXLE BOX.—Ben jamin M.Pearne and Leroy Coville.

79,916.—Axle Box.—Benjamin M.Pearne and Leroy Coville,

Oxford, N. Y.
We claim the combination of the metallic box, B, and bands, C. C, with the axle, A, when said box has a central depression, and is enlarged at each end for the bands, as set forth.
79,917.—GANG PLOW.—John F. Porter and Alonzo Norton,

79,917.—GANG PLOW.—John F. Porter and Alonzo Norton, Tidioute, Pa. We claim, 1st, The hinged coulter, I, attached to the plow, and operating as described.
2d, A plow, so constructed and operating that the draft is mainly or wholly upon the point, as herein set forth.
3d, The combination of the hinged standards, K K', with the plow, D, substantially as described.
4th, The combination of the rack, n, socket, S, cam, o, lever, p, standard, K, and plow, D, substantially as described, and for the purpose set forth.
79,918.—BUCKLE FOR SUSPENDER.—Augustus Pototsky (assignor to Fisk, Clark & Flagg), New York citv.
I claim the combination, in abu-kile, of the two members thereof with a spring stud upon one member, and with the slotted stop plate upon the other member thereor, substantially as before set forth Also, the combination of the stock of the buckle, constructed with a toothed sl.t, with a turning bar clamp, substantially as before set forth.
79,919.—Adjustable Barrel Head.—Peter Rink and James Docherty, Wertsville, N.J.

79,919.—ADJOSTABLE BARREL HEAD.—Feter fills and James Docherty, Wertsville, N. J.

We claim the bevel d edge, C. grooved upon each side to receive the edges of the parts, ax b, of toe barrel head, the short beveled wedge, D, rebared upon its under side to fit between the said parts, and rest upon their upper sides, both wedges secured together and tightened in the head by means of the beveled we dge, E, all constructed, arraaged, and operating as herein described, for the purpose specified.

79,920.—Railroad Car Stove.—John K. Sax and George W. Kear, Kingston, Pa.

W. Kear, Kingston, Pa.
We claim, 1st. The door, M. provided with the We claim, is: The door, M, provided with the eccentric spring latch, O, and sunk in from the surface to protect it from breaking in time of accident, substantially as and for the purposes above set forth.

2d, The combination of the base, A, pan, B, and its valve, revolving grate, F, and its cog gearing, and perforated cylinder, C, and its perforated dome, N, and the door, M, all constructed and forming a cylindrical stove for railroad cars, and operating as specified

79,921. —Coffin.—Bernard Smith (assignor to "American

Burial Case Company," Cincinnati Obto.

Burial Case Company," Cincinnati Obto.

Burial Case Company, "Cincinnati Obto.

Burial Case Company," Cincinnati Obto.

Burial Case Company, of the finge, D, flush, or nearly so, with the dies, BB, of a body, A, whose upper portion is set in, as and for the objects estimated.

79,922.—Scoop and Sifter.—E. J. Smith & F. B. Perkins, Chicago, Ill., assignors to E. J. Smith.
We claim the combination of the sifter, J, rod, E, coilspring, H, and cured rod, R, substantially as and for the purpose herein set forth.

79,923.—LOOM FOR WEAVING PAIM LEAF.—John C. Smith, Chicopec, assignor to himself and L. D. Hills, Amberst, Mass.
I claim ist, In combination with a reciprocating weft carrier, the feed trough and oscillating box, constructed substantially as and for the purpose

trough and oscillating box, constructed substantially as and for the purpose set forth.

2d, In combination with the feed trough and oscillating box, the sliding weights, D, substantially as and for the purpose described.

3d, in combination with the feed trough, and weft carrier, the hooks, e e, operating substantially as and for the purpose specified.

4th. In combination with the feed trough weft carrier, and books, e e, or their equivalents, the sliding bar, v, substantially as and for the purpose set forth.

or their equivalents, the shoung oar, v, subsequently as and for our purposest forth.

5th, The mechani m, substantially as described, for causing the cloth beam and harness to stop when the pincers fail to make a successful pick.

6th, The slotted arm, y, attached to the lay, to receive the strip of palm leaf, and to prevent it from turning or twisting, substantially as described.

7th, Thelever, N, so arranged that it will be a ragainst the lower side of the

strip of woof while the same is being drawn into the shed, and thereby tend to prevent it from twisting or turning.

79,924.—LAMP.—David M. Smith, Orange, N. J., assignor to Benjamin F. Small, New York City.

1 claim the safety lamp body. formed of a tube, and constructed substantially as hereinbefore set forth.

79,925.—TOOL FOR FITTING BANDS ON HUBS.—Charles E.

Stope, Amesbury, and Aifred Herbert, Salisbury, Mass.
We claim the handle. B, curved at, c c, and adjustably pivoted to the extension, C, of the handle, A, by means of the set screw, a, fitted into either one of a series of holes, b b b formed in said arm, C, substantially as and for the purposes herein shown and described.
79,926.—Apparatus for the Manufacture of Whiskey.

79,926.—APPARATUS FOR THE MANUFACTURE OF WHISKEY.—
Hiram Vaughu, Thomas Chaiwell, E. H. Childress, and G. A. Webber,
Nasbville, Tenn. Antedated July 2, 1883.
We claim 1st, The process hereinbefore described of manufacturing whiskey, or any kind of spirit whatever, by the employment of pipes, pums, hydromebrs, gages, padlocks, substantially as described.

2d, The manner herein described of employing pipes, pumps, hydrometers,
gages, padlocks, as set forth.

3d, The method of working said pumps, pipes, bydromaters, either by
steam or other power whatever, and using them in combination with gages
and padlocks, in the manner and for the purposes set forth.

79,927.—PAPER RULING MACHINE.—Charles F. West, Boston,
assignor to J. F. Tapley & Co., Springfield, Mass.
I claim, I. Combining, with a roling mechanism, the wheel, o. provided
with lifter surfaces or pieces, for effecting the rise of the pens at the proper
times, when the wheel is arranged in relation to the ruling cylinder substantially as described.

2d, Making the lifter pieces, w, adjustable within the circular grooves, v,
when held in position, substantially as set forth.

3d, Arranging the wheel, o, with its axis at right angles to that of the ruling
cylinder or bed so as to be driven by frictional contact therewith, substantially as set forth.

Ally as set forth.

4th. Combining, with the wheel, o, and cylinder, b, arranged in relation to ach other, substantially as described mechanism for arresting the rotation t the wheel, and for effecting its release, substantially as and for the pur-

of the wheel, and for effecting its release, substantially as and for the purpose specifier.

79,929.—CLINCHING NIPPER.—John B. Wilder, (assignor to himself, W. H. Shepard, and George A. Huggins) Mannsville, N. Y. I claim, ist, The cutters, b and bi, when the same are so applied to a pair of clinching nippers that they can be operated substantially as described, as and for the purpose specified.

2d. The cutters, b and bi, jaws, a sod a', and shoulder, e, when the same are arranged substantially as described, as and for the purpose specified.

79,929.—ELECTRICAL BATH.—Charles Winterburn and William Kent, Cincinnati, Ohio.

We claim the application of electricity to the human body while the latter ist nearco.

HAMES FASTENER.—A. B. Wood ward, Alfred Centre

respond — HAMES FANTENER.—A. B. WOOD WARD, Affred Centre, and Samuel A. Woodware, Hornellsville, assignors to themselves and Orson Mosher. Hornellsville, N. Y. We claim an improved hame fastener, formed by the combination of the strap, A, strap, B, lever catch, D, lever catch, C, and spring, E, or equivalent, with each other, said barts being constructed and arranged substantially in the manner herein shown and described.

79.931—BEER COOLER.—John Agate, Pittsford, N. Y.
I claim box, b, divided into several compartments H, in cembination with the tanks. C, and connecting pipes, t, operating conjointly, substantially as and for the purposes shown and described.

and for the purposes shown and described.

79,932 — CHECK AND DRIVING LINE.—C. M. Alexander, Washington D C.

I claim the check lines, A A', made continuous, and connected to or orming a part of the driving line, B, and operating upon the month of the animal with one or two bits, substantially as specified.

79,933.—INFLATED RUBBER GOODS.—George M. Allenton, Naw Ork city.

claim the separate covering of cloth, felt, or similar material, in combined with the enclosed india rubber article, as and for the purposes set

79,934.—Life Preserver.—George M. Allenton, New York city.

I claim an annular inflatable elastic rubber life preserver, substantially as neerified.

pecined.

9.935.—MACHINE FOR WASHING PAPER STOCK.—J. E.
Andrews, Coeyman's Hollow, N. Y.
Andrews, The combination with the tank, A, of the wheel C, provided with the floats, CI, screen, CI, and hub, a, substantially as and for the parpose

ea. oe combination with the tank, A, of the chute, E, cylinders, D and D' dess chains, provided with the rakes, substantially as and for the pur

and endless chains, provided with the trades, second of the pose described.

3d. The combination, with the endless chains, provided with rakes, of the guides or ways, F, substantially as and for the purpose described.

4m. The combination, with the water tank, A, cluite, E, and rakes, b, of the screen, G, substantially as and for the purpose described.

79,936.—Rose For Door Knobs.—William H. Andrews,

New Haven, Conn.

I claim the combination of the plate, d, constructed with the flange, a, which the plate, A, formed from tin or slother hard metal, as described, and when the flange, a, extends up through the central perforation of the plate, A, substantially as and for the purpose set forth.

79,937.—Propelling Vessels.—B. T. Babbitt, New York

city.

Ci

79,938. GAS EXPLOSIVE ENGINE FOR CONDENSING AIR.—B.
T. Barbutt, New York city.
I claim list, A mover or power generator, operating to compress or force air or gas by the reciprocating action in an automatic manner, of a weighty and independent pis on or projectile, free from constant connection with outside working parts, the same being started or set in motion by any suitable explosive force or expansion of gas or vapor under heavy pressure, within a tube or cylinder provided with suitable openings for producing the necessary explusion or starting impetns to the pistion, and for reception and discharge of the fluid which it serves to compress, substantially as specified. 2d, The combination of intermittently revolving or other equivalently operating many chamber magazines at opposite ends of the tube or cylinder, A, suitable powder feeding vessels or commers thereto, and wires or conductors, s.e. for operation in connection with the wire or wires from a battery to explode the charges at opposite ends of the cylinder alternately, essentially as an for the purpose or purposes herein set forth.

3d, The combination, with the loose or nuependent piston, E, operating as described, of rods, II, or their equivalents, and suitable mechanism for givener in an automatic manner, or by the action of said piston, the necessary impetus to the latter at starting, by gaseon expansion or explosion, substantially as specified.

79,939.—GAS EXPLOSIVE ENGINE FOR CONDENSING AIR.—B.

GAS EXPLOSIVE ENGINE FOR CONDENSING AIR.—B

79,939.—Gas Explosive Engine for Condensing Air.—B. T Babbit, New York city.
I claim, lat. A motor or power generator, operating to compress air by gas by the rotary travel or action, within a cylinder or annular chamber, provided with one or more anuments and suitable inlet and outlet passages of a loose or detached and independent piston, baving imparted to it at intervals power to establish and continue its momentum by any suitable explosive force or expansion of gas or vapor, sustainably as specified.
24, The combination of a loose or independent piston operating within a cylinder or annular chamber, substantially as described, with a sliding abnument or abutments in succ manner, and said parts or devices being so constructed as toat the piston in its rotation is caused to open and operate the purpose or purposes hereins of forth.

79,940.—Switch for Street Rallroads.—Gilbert L. Bailey,

purpose or purposes herein sectional. 79,940.—Switch for Street Railroads.—Gilbert L. Bailey. Portland, Mo ructions, Mo.
I claim the construction and arrangement of the spring, S, levers, 7 and 8, letter rollers, 5 and 6, and treadle, 11, all substantially as and for the puroses described.

poses described, 79,941.—Boot and Shoe Shank.—August Bertram, New

79,941.—BOOT AND SHOE SHANK.—August Bertram, New Albany, Ind.

I claim the right and left shoe shanks, A B, of the form shown, when the same are made entirely of wood, and are inserted between the upper and lower surface of the soc, so as to be imbedded in the leather, substantially as herein described, and for the purpose specified.

79,942.—A NILINE DYE.—Benoit Bloch, Soultz, France.

I claim a dye, composed of the ingredients herein named, and treated in the manner substantially as set forth.

79,943.—Coffee Pot.—Ben jamin Boardman, Malden, Mass.

I claim the cup or condensing chamber, D, constructed and applied to an ordinary coffee pot, A, in the manner substantially as and for the purpose herein set forth.

179,9 4.—SMAP HOOK.—William H. Bouser, Paris, III.

1 claim a snap hook for barness, having hook, A, spring, B, shield, D, and thumb piece, E, constructed, combined, arranged, and operating substantially as specified.

1 cmaes Brandon, Boston, Mass. GLUE Pot.—James Bragdon, Boston, Mass.

79,945.—GLUE POT.—James Bragdon, Boston, Mass. I claim, in combination with the glue pan or vessel, d, the water-containing vessel, c, made with the concal bottom, i and the steam chamber, j, and having beneath it the inclined flue, I for escape of the smoke from the lamp, all substantially as shown and described.

Also, in combination with the conical bottom, i, and flue, I, the vertical flue, m, substantially as shown and described.

Also, in combination with the conical bottom, i, and flue, I, the lamp, b, having a packed tune, g, substantially as described.

79,946.—HAND LOOM.—James L. Branson, Cincinnati, Ohio. I claim, 1st, the swinging dog, E, in combination with the ratchet wheel and chips, substantially as and for the purpose described.

2d. The rigid connecting wire. S, combined with the strap, O, and picker block, J, substantially as and for the purpose described.

79,947.—STEERING WHEEL STOP.—Isaac N. Runkar Water

-Steering Wheel Stop.-Isaac N. Bunker, Wey I claim, ist, Arranging a notched hinged bracket, D, in combination with the steering wheel, A, substantially as and for the purpose herein shown and

nora. Providing the bracket, D, when the same is made and operating as de led, with springs, c.c., substantially as and for the purpose herein snow: and described.

3d. The bracket, D, when provided with a lip, d, substantially as and for the purpose herein shown and described.

-HARVESTER CUTTER SHARPENER.-Edwin L. Bushnell, Poughkeepsie, N. Y.
I claim, as a new and improved article of manufacture, the rhomboidal shaped cutter sharpener, substantially as described, and for the purposes set or in.

79,949.—Force Pump for Hydraulic Press.—W. P. Calla-

ban, Dayton, Onfo.

I claim, 1st, The combination of the pumps, as shown, with check blocks and valves, arranged to operate in connection with bydralic presses, substantially in the manner set forth.

2d, The pump, F, in combination with the pumps, D and E, the stop valve, J, and the check valves, FP, substantially as and for the purposes described.

79,950.—Double Acting Hinge.—James H. Carkeet, Montgomery Ala

79,950.—DOUBLE ACTING HINGE.—James H. Carkeet, Montgomery, Ala.

I claim the pivoted arm, h, provided with two clutches, J J, so arranged that either one side or the other of the hinge may be clasped, while the opposite side 1s free to operate, thus allowing the door or shutter to swing in or one as may be desired, substantially as described.

79,951.—INSULATOR.—A. H. Castle. Ann Arbor, Mich.

I claim the insulated bracket, A, with a core, E, formed solidly with same bracket, and the angular traverse notch, B, by which the hook is covered by the projections, C D, in the manner as and for the purpose specified.

79,952.—ELEVATED RAILWAY.—Robert A. Chescbrough, New York city.

I claim an elevated railway, composed of inclined planes or sections, arranged substantially as described, in combination with elevating platforms at the junctions of the sections, and operated by stationary motive power to establish continuity of the sections, as here in set forth.

79,953.—Luggage Supporter for Saddles.—William Cline, Boston, Mass.

Boston, Mass.
I claim, in combination with a saddle, an adjustable supporting arm, substantially as and for the purpose set forth.
79,954.—ORE CRUSHER, GRINDER, AND AMALGAMATOR.—John

stantially as and for the purpose set forth.

79,954.—ORE CRUSHER, GRINDER, AND AMALGAMATOR.—John
A. Collins, Virgina City, Nevada.
I claim, 1st, The combination and arrangement of the cylinders, C, crushing wheels, D, axie. E, and central plate, F, with arms projecting downward, and supporting said axie, substantially as described.

2d, The combination and arrangement of the driving plate, G, on the shaft, H, the friction rollers. N on the arms of the revolving plate, L, and the stationary plate, K, above it, substantially a described.

3d, The combination and arrangement of larger rollers, S, with smaller, S, within the cylinders, C, the former rolling upon the latter and upon the Cylinder, but the latter or smaller rubbing and grinding against the cylinder, as described.

79,955.—Bleaching Apparatus.—Elizabeth A. Combs,

described.

79,955.—BLEACHING APPARATUS.—Elizabeth A. Combs, Morroe, Wis.

I claim the fire pot or furnace, D, in combination with the box described, all constructed substantially as and for the purposes specified.

79,956.—CULTIVATOR.—George W. Cook, Macon, III.

I claim the connecting of the standards, F F, of the plow beams, E E, by crossbars, c.c., as shown, in combination with the crank shafts, I I, claims, d. pulleys, f, and treadles, H H, all arranged and applied to mounted frame. A, substantially as and for the purpose set forth.

79,957.—TOOTHED WHEEL.—John Cowell, Ansonia, Conn. I claim, ist, The combination of a detachable tooth with the corresponding mortises in the rim of the wheel, when constructed with a recesses in one face of the tooth, so as to lock on to the corresponding face of the tooth, so as to lock on to the corresponding face of the tooth, so as to lock on to the corresponding face of the tooth, so as to lock on to the corresponding face of the tooth, so as to lock on to the corresponding face of the mortise, and secured by the key, d, substantially as set forth.

2d, The combination of the plate, C, and its set screw, f, with the key or keys, d, so as to secure the keys, substantially in the manner herein set forth.

79,958.—LAMP CHIMNEY—Robert R. Crossby, Boston, Mass.

I claim the abrupt or nearly right angled enlargement of the chimney, as represented in fig. 5, arranged in relation to the lamp burner, substantially as and for the purpose herein specified.

79,959.—PIMP.—Rufus W. Crouse, Westminster, Md.

I claim the combination and arrangement of the cylinder, A, planger, D, induction, I, and eduction, E, when connected by the apartments, C Cl Q2 CS, and the passages, F F, provided with the valves, c c c c, all the sand parts being constructed, arranged in the torth.

79,960.—FIRE PLUG.—James P. Cummings, Newport, Ky.

I claim, isr, The stuffing box, guide, and stop, k, in combination with the block, n, and rod, g, substantially as described.

3d, The stop, d, and waste hole, e, t

stock, and the valve seat, u, wo operated.

The stuffing box, guide and stop, k, and block, n as arranged in relative value of ambitantially as described. tion to the value, c, substantially as described.
79,961.—CORN SHELLER.—Milton Day, Baltimore, Md.
1 claim the combination, in a corn sheller, of two paims, B B, each having thee or more fingers or times, b b, to embrace the c.b, with the springs, CC, and shanks, dd, when the latter are permanently secured to the rim, all constructed and arranged substantially as described, and for the purpose

79,962.—Corn Sheller.—Milton Day, Baltimore, Md.

I claim a corn sheller, haying a series of palms, B B, each having feeding threads, 72 f2, on their inside, when the same are so arranged that they afford protecting tines, b b, to receive the cob, and are in combination with the fingers and springs, C, and the whole are made to operate substantially as described. 79,963.—Pocket Signal Device.—J. J. Detwiller, Green-

79,963—POCKET SIGNAL DEVICE.—J. J. Detwiller, Greenville, N. J.
Leibum ist A metallic signal cup, Al grooved spirally for attachment to a staff or supension cup as and for the purpose set forth.

2d. The combination of two or more cups, Al A2A3, tapered and grooved as herein described, to make them relatively interchangeable, for the purpose specificd.

3d. The spiral socket. C', constructed and adapted to receive and hold the cups A1, as and for the purposes effectived.

79,964.—Saw-Set.—Isaac Estell, St. Lewis, Mich.
1 caim the arrangement of the slotted bottom pla e, A, arm, H, screws, I and G, gage, D, and rod, e, constructed as described, and operating substantially as and for the purposes herein set forth.

79,965.—Tape Measure.—A. J. Fellows. New Haven, Conn. I ciaim the combination of the case, A, with the plate, b', clickspring, d d'

I ciaim the combination of the case, A, with the plate, b', clickspring, d d' and the arin, e, and knob, f, when the whole is constructed, arranged and fitted for use, substantially as herein described.

79,966.—Steak Masher.—Richard Flynn, West Brookfield,

Mass.
I claim the employment in a steak-mashing machine, of the rolls, A A, the teeth of which are arrangedso as to form a contintinuous spiral from one end to the other of each roll, the said rolls being geared together so as to move in opposite directions, while their spirals run in the same direction, as shown and set forth.

79,967.—DISCHARGING APPARATUS FOR HARVESTER.—J. S.

79,967.—Discharding Arthur and Provided and operating substants I claim 1st, The slatted gates, G G, constructed and operating substants ally as and for the purposes set forth.

21. In combination with the slatted gates, G G G, the rack, H, sliding bar, K, and levers, F and I, constructed and operating substantially as specified.

79,968.—WATCH.—M. N. Frederick (assignor to himself and C. S. Mosely, Elgin, Ill.
I claim 1st, The stud or post, B, having a bearing through the plate, C, and box, D, thereby holding the drive wheel, A, firm and steady, substantially as described.

box, D, thereby holding the drive-wheel, A, nrm and steady, substantially as described.
2a, in combination with the stud or post, B, and drive wheel, A, the screw, T, constructed substantially as described.
3d The double wheel, K, in combination with the wheels, A, J, and the vibrating bar E, provided with spindles, b, arranged to operate substantially a specified and for the purposes set forth.
4th, The spur wheel, II, in combination with the box, D, and post plate, C, when a rranged to that the hearing of the spur wheel is partly in the box and partly in the D ate, St, in combination with the wheel, L, and, main-spring arbor when arranged substantially as set forth.

5th, The plate, R, in combination with the wheel, L, and, main-spring arbor when arranged substantially as specified.

79,969.—LAMP BURNER.—F. H. Fuller, South Boston, Mass.

I claim, ist, The wilk tube, D, made in two sections, when the upper section is fitted over the lower, as at, i, whereny the separation of the parts of the burner for cleaning is facilitated, as herein set forth 2d, The lamp burner, constructed as described, and consi ting of the perforated concilaring, B, and cap, A, supported on stands, C, projecting from the upper section of the wick tube, and the concave perforated disk, F, rim, E, and part, G, attached to the lower section of the wick tube, all arranged as birein shown and described, for the purpose specified.

Eureia shown and described, for the purpose specified.
79,970.—APPARATUS FOR DECORTICATING AND CLEANING CREEALS.—William Walker Gibson, Edioburth, North Britain.
1 class the employment of art volving drum for decorticating cereals, upon the surface or periphery of which strips or blades of glass, porcelain, or like mareial are fixed and arranged, substantially in the manner shown and set forth.

79,971.—Screw Threading Machine.—Ezra Gould, Newark,

N.J.
I claim, 1st, The arrangement, herein described, of the driving wheel, F. concentric spindles, G.C. and projections, a b, for the purpose set forth.
2d, The combination of the lever, K. and silde, L. secured one to the other, by a pivot, h, which moves in a slot, 1, with the lever jaw, m, frame, A, and head block, J, all constructed, arranged, am operating substantially as and for the purpose described. for the purpose described, 79,972.—Electro-Magnetic Temperature Alarm.-John

173,972.—ELECTRO-MIAGNETIC TEMPERATURE ALARM.—John H. Guest, Brooklyn, N. Y.
I claim, 1st, The spring axis, on which thearmature swings, in combination with the handmer and bell, as and for the purposes set forth, 2d, The spring circuit breaker, 1, and adjusting screw, a, provided with a head or button, in combination with the armature and spring axis, h, for the purposes and as set forth.

3d, The alarm thermometer, formed with the horizontal circuit closer and its adjusting sum, in combination with thecaseenclosing the adjustable parts as set forth.

79,973.—ELECTRO-MAGNETIC BURGLAR AND FIRE ALARM.—John H. Guest, Brooklys, N. Y.

79,973.—ELECTRO-MAGNETIC BURGLAR AND FIRE ALARM.—John H. Grest, BrooklyJ, N. Y.
I claim, i.s., A pair of magnets and armatures, arranged and acting in the manner siccified, in combination with a hammer and bell, the former being attached to the lever of the arranture, for the purposes and as set forth.
2d, An expansive corrugated disk and hinged 1m, forming a thermal circuit closer, smostanially as set forth.
3d. The adjusting screw. 7, in combination with the thermal circuit closer, as and for the purposes set torth.
4th, The pendulum and spring, in combination with the circuit wires and notched sash or side to close the circuit as specified.
5th, The two springs, 13 14, connected with the circuit wires, in combination with the pusher, q, for the purposes and asset forth.
6th, The plate, i, screw stude, s, and outs, t, constructed substantially as specified, in combination with the circuit wires, to form a designating or discongecting appractage in a fire or purglar alarm, supstantially as et forth.

connecting apparatus in a are or purglar alarm, substantially as et forth.
79,974.—TOOL HOLDER.—Jacob W. Haskell, Boston, Mass.
I claim the combination of the tube, e, bearing the mortise seaded bolt, d, wish half boxes, h i, when the tube and boxes are connected with a feather

and asp line, and are otherwise arranged, substantially as and for the purposes set forth. 79,975.—FEATHER RENOVATOR.—Charles E. Hendrick, Chicoge Mass.

opee, Mas.
I calm, 1st, Three or more valves, DDDD, rod, E, nut, N, in combination with the receiver, C, the whole arranged and operated substantially in the magner herein shown and described for the purpose set forth.

2d, The swinging valve, D, with the spiral spring, t, substantially as described, and for the purpose set, forth.

79,976.—MACHINE FOR SHAVING RATTAN.—Levi Heywood, Gardner, Mass.
I claim the arrangement of the knife, M, constructed and operated substantially as described.
Also, the arrangement of the knive, d. in combination with the present

Hally as described.

Also, the arrangement of the knive; d, in combination with the presser rolls, 1!", and operating screws, h, all constructed and operating substantially as set forth and for the purpose stated.

ruly as set forth and for the purpose stated.

79,977.—BREAST STRAP.—A. L. Hill, Decatur. III.

1 claim. 1st. The breast strap, constructed as described, and consisting of
the strap, C, to which the plate, D, having ribs, d. 1s rigidly secured, when
said strap is provided at eachend with a hook, B b all arranged and operating as and for the purpose described.

2d, The ribs, d. on the exterior surface of the bar, D. when used in combination with and applied to the strap or straps, C. for the purpose substantially as set forth.

ad, The ribs, d. on the exterior surface of the bar, D. when used in combination with and applied to the strap or straps, C. for the purpose substantially as set forth.

79.978 — TRACE BUCKLE.—Henry Hise, Chicago, III.

1 claim, 1st. The combination of the plate, B, provided with one or more inclines, a with a clasp. C. arranged and operating substantially as set forth, and for the purposes specified. Carranged and operating substantially as set forth, and for the purposes specified so as to be secured upon a trace, and provided with one or more inclines, a, in the manner described.

79.979.—SAW HANDLE.—Charles W Hubbard, Pittsburg, Pa. I claim a new article of manufacture, to wit, a saw handle, consisting of the part, J, provided with a ree-35, f, for the nut of the bolt, B, and with a groove adapted to the end of the saw blade, said nandle and its part, J, being made substantially in the form herein described and represented.

79.980.—MACHINE FOR GRINDING SAWS.—Charles W. Hubbard, Pittsburg, Pa.

1 claim, 1st, Providing a saw grinding machine with an unjointed thin metallic belt or endless apron, substantially as herein described and for the purpose set forth.

24. Pivoding the bearing roller, A', so that it can be deflected to correspond to the desired taper of the saw blade, substantially as herein described and for the purpose set forth.

23. Providing the shaft of a grindstone with a flance provided with a socket joint, substantially as herein described and for the purpose set forth.

79.981.—CATCH FOR MONEY DEAWERS.—Saunders Hubbell, Jr., west Salem, Onto.

1 claim the combination and arrangement of the levers, A and B. the flucium support, c, and spring, m, or its equivalent, in the manner substantially as described, and for the purpose specified.

19.982.—CAR COUPLING.—Frederick A. Hull, Belvidere, Ill.

1 claim the combination and arrangement of the tubular draught iron, B, the bars, D & the soring S, and the link, I, and pin, b, arranged and operating substantially as specified and shown.

79.983.—Ne

79,983—NEEDLE FOR SEWING MACHINE.—George M. Isbell,

Farrington, Conn. Antedated July 3, 1888.
I claim a sewing machine needle, formed as specified, with the flattened body, the circular edge to the hook, the lengthened opening in the book, and the curvature or swell at the back of the hook, as and for the purposes set forth.

forth.

79,984.—ATTACHMENT FOR BALANCING POLISHING WHEELS.

-Horace K. Jones. Kensington, Conn.

I claim the combination of the ring, A, and weights, a, constructed and arranged as herein described, with a polishing wheel, for the purpose of balancing it, substantially as specified.

79,985.—SPIRAL OR WINDING STAIRS.—William J. Keim, New York city.

I claim an arrangement of winding steps, constructed in such a manner as to give two or more flights within the same space, substantially as described.

79,986.—Belt Shipper for Looms —L. J. Knowles, Warren,

Mass.
I claim, 1st, The combination, with the shipping lever, D, applied to one end of the shipping rod, C, of the inclined guide rod, c, substantially as and for the purposes set forth.

2d. The combination, with the shipping lever, and slotted and notched guide piece in which it moves, of the dog and ears for actuating said lever, and the rotating and longitudinally shiding rod upon which the same are mounted, together with the spring, I, and lever, D, the said parts being arranged for joint operation, as herein specified, so that the movement of the lyer, D, shall cause the shipping lever to be drawn in either direction, as required.
79,987.—Animal and Bird Trap.—A. T. Latta, Camden, S. C.

79,987.—ANIMAL AND BIRD TRAP.—A. T. Latta, Camden, s. C.
I claim, ist, The weighted and pivoted door, c. cord, d, pulley, c, platform, a, and catch, f, all constructed as described, and combined and operated in the manner set forth.

2d, in combination with the above, barrel, g, arm, h, bent lever and catch, f, the whole being operated in the manner and for the purpose set forth.

79,988.—PRINTERS GALLEY.—Charles H. Lawrence, New York, assignor to himself and N.P. Tyler. Barrytown, N.Y.
I claim the lining, c, having the metal rongue, b, in combination with the frame, a, b. ttom, d, and screw, e. applied in the manner and for the purpose substantially as herein shown and described.

79,989.—GAS HEATER.—H. Y. Lazcar, New York city.

I claim, 1st, The V-shaped trough, E, and the fling. E, by which the frame is divided, and the grease protected from burnin; and smoke thereby prevented, substantially as and for the purposes set forth.

3d, An apparatus for broiling steak by gas, whereby the steak is broiled or

the purposes set forth.

3d, An apparatus for broiling steak by gas, whereby the steak is broiled or cooked simultaneously on both sides, or where the sides are equally exposed to the flame and heat, snostantially as shown and described.

79,990.—MACHINE FOR DRESSING GRINDSTONES, MINERALS, ETG.—Ph lip Leonard, Sharon. Pa.

1 claim the adjustable frame. B, fitted in a frame, A. as shown, in combination with the sliding frame, C, provided with the tool stock, C', arranged for a lateral movement, substantially as and for the purpose set forth.

79,991.—TRUSS PAD.—Thomas J. Lindley, Medora, Ind.

1 claim the woodenpressure pad, B, having an inserted lead centre, C, and attached to the strap, A, all arranged substantially as and for the purpose set forth.

79,992.—Stove Pipe.—James C. Loup, Galveston, Ind. I claim the sliding pipe, B, for making connection of stove pipes to the flue and shutter, H. for losing the aperture in the rest, when the pipe is not in se below the rest, as described.

9,993.—GRAIN SEPARATOR.—Elijah Lucas, Winslow, Ind.

T claim, 1st, The polygonal shaped wire sieve, B, provided with shafts, d d, netal strips, e e, and wires, i , constructed and operating substantially as and for the purposes herein set forth.

2d, The reversible chute, F, in combination with the rod, f, and the lever, i, substantially as and for the purposes herein set forth.

3,994.—PORTABLE CHAMBER CLOSET.—William J. Lyman,

79.994.— PORTABLE CHAMBER CLOSET.—William J. Lyman, East Hampton, Mass.
I claim the arrangement and combination, with each other, of the box, A, cover, B, seat, C, platform, E, vessel, F, additional seat. H, and receptables, I, all made and operating substantially as herein shown and described.
79.995.—CHAFING ROLLER FOR WAGON.—James M. Mayhew, Providence R. I. Iclaim the construction of the chafing roller, C, upon the longitudinal rod, a, having its bearings in the ends, C', of the side pieces, A, which are recessed to receive the elastic cushions, c', bearing against the ends of said roller, all operating as described for the purpose specified.
79.996.—SHACKLE BEARER.—John W. Mayhew, San Francisco, Cal.

'79,995.—SHACKLE BEARER.—John W. Mayhew, San Francisco, Cal.
I claim the manner of supporting and bracing the bearer ring, A. by means of the back brace, C. formed and shaped as herein described, and secured to the tread of the snoe in the manner set forth, in combination with the stid braces, D, of the particular shape and construction described, having fork shaped ends. 79,997.—Horse Collar Stuffing Machine.—S. B. McCor-

79,997.—HORSE COLLAR STUFFING MACHINE.—S. B. MCCOT-kle, Greenville, Tenn.
I claim, 1st, A machine for stuffing borse collars, so constructed and oper-ring that as the plunger enters the collars, its forks, a, will have its prongs in a horizontal plane, for the purpose described.
2d, A machine for stuffling horse collars, so constructed and operating that the plunger partially rotates as it moves back and forth, in order that itsprongs, a, may lie in a vertical plane as it catches the straw, and in a horizontal plane as it delivers the strawinto the collars, substantially as de-scribed

3d, The combination of the plunger, A, having the fork, a, with the arm, e, and bent guide rod, H, when the several parts are constructed to operate in the manner described.

the manner described.

79,998.—DOUBLE CORN PLANTER.—William McLucas, Reinersville, Ohio.

I claim, 1st, The tube, H, when the same is constructed with angular openings and supplied with a plug, h, in such manner that the same can be actuated by the driving wheel, D', or controlled by the upright lever or nee-

dle, h'.
2d. The foot lever, G', when in combination with suitable mechanism, and
the universal casters, f' f' when the same is so constructed and arranged substantially as described and for the purpose specified. 79,999.—Tire Frame Attachment.—N. H. Mead, Water-

port, N. Y.
I claim the combination of the pivoted lever, C, adjustable toethed bar, E, elotted cap plate, F, and toothed bar, G, with each other and with the frame, A, substantially as herein shown and described, and for the purpose set

80,000.—Washing Machine.—Cyrus Miller, Des Moines, Iowa.
Icham the box, A, cylinder, D, and adjustable board, E, when said cylinder is provided with a series of corrugated staves and brushes, as described, and the board, E, with corresponding brushes, to operate substantially as set

forth.

80,001.—CHURN MOTION.—David Morris, Bartlett, Ohio.

I claim the frame, consisting of the noright, A, foot, B, and screw threaded stem, a, the latter serving the double purpose of a guide for the dasher shaft an means or attachment of the frame; the lid of the cuturn vessel, in combination with the grooved wheel, G, sindes, g g', pitman, F, and dasher shaft, b, the whole arranged and operating in the minner and for the purpose specified.

cified.
80,002.—Horse Hay Fork.—C. E. Murray, Sugar Valley, Pa.
1 claim the frame, composed of the diverging prongs, a a, and head,

combination with the pivoted or jointed teeth, e.e, rods, ff, and eccentric, hall arranged for joint operation, substantially in the manner as and for the

Bullone set forth.

80,003.—CALCULATING BALANCE.—Benjamin W. Ogburn, Whittle's Mills, Va.

I claim the combination of the sliding fulcrum, M. and pea, L, when working upon a graduated beam, I, in connection with a balance frame, B, the parts being constructed and arranged as described, so as to operate together in the manner and for the purpose set forth.

80,004.—Powder for BLASTING AND OTHER PURPOSES.—Paul A Oliver New York city.

Paul A. Oliver, New York city.
I claim the use of peat in the manufacture of gun and blasting powder, betantially as set forth, as an improved article of manufacture, the powder made substandly as berein described.

80,005.—RAILROAD STATION INDICATOR.—Thomas Payne

80,005.—Railroad Station Indicator.—Thomas Payne, Detroit, Mich.

I claim, ist. The arms. N. N., arranged as described, on the roof of a car, and provided with ears, r., to guide them along the circular rode, ss., in combination with the spiral springs, h., on said rods, to prevent any wabbling or lost motion, substantially as and for the purposes herein set forth.

20, The slotted bars, E. E. forming a frame, and placed on the shait, a, on each sid of the circular disk, B, in combination with the shoes, b. b. and levers, F. F, for the purpose of turning the shaft in either direction, substantially as and for the purpose sherein set forth.

3d, The arms, I, proved at one end, one having a weight or spring. L, attached to the other end, and the other attached to a bell or slarm, M. by means of a spring, c, and both provided with adjustable corrupated clamp, K. K. in combination with the sog wheels, e.e., when arranged and operating substantially as and for the purposes herein as t forth,

4th, The shotted stays, H and T, when arranged so as to regulate the movement of the cog wheels, e.e., substantially as and for the purposes herein set forth.

ment of the cog wheels, c.c., substantiany as and the cog wheels, c.c., substantiany as and control of the cog wheels, c.c., and constructed as described, for the purpose of indicating names, figures, or characters, suspended in a car, and operating substantially combination with the spring, p, and names, figures, or characters, suspended in a car, and operating substantially as et. The continuous continuous continuous care and continuous car

by the arms, S. S., upon the posts, R. R., substantially as specified.

80,006. APPARATUS FOR CONDENSATION OF VAPORS IN LARD BOILING, etc.—C. C. Peirson and Geo. F. Peirson, Philadelphia, Pa. W. claim lst, The showerpipes, R and S., constructed and operating substantially as and for the purpose specified.

2d. A condensing an i deodorizing apparatus, having cover, B., condensing boxes. D and E., shower pipes, R and S., and chiunry, K., and conduit pipes, as described, constructed, arranged and operating substantially as described, 80,007.—BASE BURNING STOVE.—Samuel Pierce, Boston, Mass

Mass.
1 claim, 1st. In base hurning stoves, making the walls, which divide the coal receptacle from the ignition chamber, double, and inclosing water, said water serving to preserve the said walls, and also for heating purposes.
2d The combination of the radiating drum, U, with the receptacle, D, arranged and operating as described.
88,008.—CLAY MILL.—Rath. F. Potter, Providence, R. I. Ichim, 1st, Combining the rack and pinion mechanism, k b (forgiving a radical movement on its axie to the tempering wheel), with its driving gear, L, by means of the adjusting screw, c, or equivalent device, for oreaking the connection between the two at pleasure, substantially as therein described.
2d, Combining the driving shaft, D', of a tempering mill. with the driving gearing, by means of the friction strap, P, applied and operating in the manner substantially as shown and described.
80,009.—TABLE FORK.—L. A. Powers. Meriden Conn.

ne. ROSEANIALLY AS SHOWN AND GESCIPED.

16. ROSEANIALLY AS TORK.—L. A. POWERS, Meriden, Conn.

1 claim making the socket for the guard of a carving fork solid with the holster, or with a portion of said bolster, and independent of the tang or body of the fork, substantially as and for the purpose set forts. 80,010.-APPLE CORER AND SLICER.-David R. Reed, Te-

80,010.—APPLE CORER AND SLICER.—David R. Reed, Tekonsha, Mich.

I claim the arrangement and combination of the flange coring tube, C. presser, P. hand lever, D. arm, E. with the receiving box, A, substantially in the manner and for the purpose specified.

80,011.—STEAM ENGINE.—Thomas Reese, St. Louis, Mo. I claim the cross head, G, suspended by links, J, from a rock shaft, I, mounted in pivoted standards, K sai I standards being so connected with the reciprocating cross heads as to receive an oscillating motion therefrom, in the manuer and by the means substantially as herein described, for the purpose specified.

80,012.—Device for Strawberry Culture.—Henry Sey

mour Robbins, Newton Falls, Ohio.

I claim a plate for strawberry culture, constructed in the form herein shown and described, and having apertures, B and C, and projections, D, combined and arranged substantially as specified.

80,013.—Machine For Dressing Fflloes.—Wm. H. Rode-hours.

80,015.—MACHINE FOR DRESSING FILLUES.—vim. 11. 1000-heaver, Miamsburg, Ohlo.

I claim the convex and flanged rest or bed, V, adjustable in height in the nanner lescribed, in combination with the cutter head, D, and adjustable seed and press lero liers, P, or their mechanical equivalents, the whole being arranged and adapted to operate substantially as set forth. 80.014.--APPLE CORER AND SLICER.-Isaac Rogers, West

Chebalem, Oregon. The combination of the slide bars, F, cross bar, H, tube, M, knives N, and rim, O, with each other and with the guides or slides, G, and parer fork, Q, substantially as herein shown and described, and for the purpose set forth.

pose set forth.

2d, The combination of the adjustable guide, P, with the rim, O, and slide bars, F, substantially as herein shown and described, and for the purpose set forth.

2d. The combination of the cross or foot bar, J, and levers, I, with the bot-

3d. The combination of the cross or foot bar, J, and levers, I, with the bottom board, A, and cross bar, H, of the sliding bars, F, substantially as herein shown and described, and for the purpose set forth.

80.015.—CULTIVATOR.—A. P. Routt, Liberty Mills, Va.

P. I claim, 1st, The instrument, consisting essentially of the standard M, loop, s, point, m, and blades, n n, having sharp front cutting edges, when the several parts thereof are constructed and arranged as accovered escribed and for the purpose set forth.

2t. The combination of said instrument with the plow standard, B B, and wedge, W, substantially as described.

wedge, W. substantially as described. 80,016.—Base Burning Stove.—A. K. Sanders, Brooklyn

OU.10.—DASE DURNING STOVE.—A. A. Samuers, Drowklyn, N. Y. I claim, 1st. The descending smoke flue between the casing, m. opening in the base of the heater, in combination with the air flues, 35 and h, arranged and acting substantially as specified, so that the air to be heated comes in contact with one side of the flue plates or tubes, and the products of combustion on the other side, as s. t forth.

2d. The magazine g, supported by cylinder, f', top plate, f. in combination with the fire pot, a, and combustion chamber formed between the said magazine, g, and the casing, e, in which chamber are the air-heating pipes, 5, as and for the purposes set forth.

3d, The doers, 8, between the plates, d and n, and at the end of the air flue, 5, for the purposes and substantially as set forth.

4th. The doors, 9, between the cylinder, f', top plate, f, and grate or mantel frame, t, and opening into the hot-air inclosure, for the purposes and as set forth.

5th, The descending flue, m, conveying the products of combustion from the

forth.

5th. The descending flue, m, conveying the products of combustion from the free chamber to the base of the hearer in combunation with the air flue, 35, that exposes the air to be heated to the wall of the sab pit, the fre pot, and said descending flue, m, substantially as specified.

6th. A freplace heater, in which the magazine for the fuel extends to the top of the heater, and is provided withan opening in front of the mantel frame for the introduction of fuel, substantially as set forth.

-Renovating and Dressing Feathers.-A. C. San

80,017.— RENOVATING AND PARESONNEL TOOK, Plymouth, Conn.
I claim the combination and arrangement of the outer tube, D, with the inner tube, E, and respective openings, fand g, provided with the valved, and having tubes, a leading from the linner tube into the cylinder, and constructed so as to operate in the manner and for the purpose herein specified.

80,018.—MACHINE FOR STRETCHING AND SOFTENING SKINS
Character Schmitz Philadelphia, Pa.

Christian Schmitz, Philadelphia, Pa.

Christian Schmitz, Philadelphia, Pa.

Claim, 1st, An instrument baving a set of parallel, or nearly parallel, stationary blades or supports, and a set of parallel rollers, operated by slever or otherwise, for the purpose of stretching leather, as set or th.

2d, The arrangement of the blades, D D D, upon the supporting nead C, so as to adapt them for adjustment by means of the set sciews, c, substantially as set for th.

80,019.—Mangle and Ironing Machine.—Joseph Seaman,

80,019.—MANGLE AND INCOME.

Chicago, Ill.

1 claim the combination of the rollers, A A', levers, D, eccentric disk, E, pillow block wheels, F, and weight, W, or their equivalent devices, substantially as shown and described for the purpose specified.

80,020.—FURNACE FOR ROASTING AND SMELTING GOLD AND

80,020.—FURNACE FOR KOASTING AND SMELTING GOLD AND OTHER ORES.—J. W. Shaeffer, Red Wing, Minn.
I claim a furnace for smelting and reducing gold, silver, copper, and other ores, constructed substantially as herein shown and described.
80,021.—CHURN.—E. F. Shaw, Wyoming, Mich.
I claim the oscillating vessel, D, provided with the cross bar. E and dasher, F, in combination with the pear wheels, K MO, and their shafts and pinions, and the spool, I, cord, G, and weight, W, all arranged and operating substantially in the manner specified.
80,022.—MANUFACTURING SCREWS.—G. V. Sheffield, Wor-

80 022.—MANUFACTURING SCHEWS.—

cester, Mass.
I claim the combination, with the reciprocating rods, H H, the frame marked J and K, of the shafts, L L, and wheels, 5 and 6, pins, 8 8, and arms, M, for operating the same, as and for the purposes stated.

2d, The combination, with the reciprocating frame, I J K, and shafts, L, of the sliding boxes of the wheels, 5 and 6, hinged connections, f, arms, M, and lins 8, substantially as and for the purposes set forth.

3d, The combination, with the sistionary frame, A, tubular shaft, B, spindle, P, and jaws, b, of the reciprocating frame, the rods, H, cross piece, G, whose is 6, connections, f, arms, M, and pins, 8, the said parts being arranged or joint pperation, as and for the purposes set forth.

pperation, as and for the purposes set forth. 90,023.—Mode of Operating Shutters.—T. J. Sloan, New

Yorkeity.
I claim, ist, The hevel gears, K H, in combination with the spring shaft, F, retaining button, i, and rim, m, when the said shaft is arranged to drive the gear, K, and slide longitudinally through it, as and for the purpose set pith.

2d. The employment, in connection with a mechanism for opening and cloing blinds from the inside of the window, of a positive lock mechanism composed of the locking shaft, Or, and spring-retaining mechanism, q R s t, al as specified. 80,024.—Friction Clutch Pulley.—H. K. Smith, Norwich.

Conn.
I claim, 1st, The pin, E, and nut, J, in connection with the levers. D.
2d. The fri tion pulley, constructed and arranged substantially as described and for the purpose specified.
80,025.—CUT-OFF VALVE GEAR.—Samuel Stanton, Newburg,

N.Y. I claim, lst, Tte combination of the bent levers, H H, rollers upon the pine, and the came, g g', for opening and closing the valves, as berein shown and

described.

26 1be sleeve, G. wheel, F. flange, c. and ring, e, in connection with the governor and the valve levers, H H', all arranged to operate in the manner as and for the purpose set forth.

80 026.—CAR COUPLING.—D. M. Steward, Dayton Ohio.

I claim the pin, C. with handle, D. fastened by the eye bolts, a a, in combination with the slotted bar, B, which forms the coupling chamber, all structed and arranged substantially as described and for the purposes specified. 80,027.—Manufacture of Auger Bits.—James Swan, Sey

80,027.—MANUFACTURE OF AUGER DITS.—James Swan, Solymour, Conn.

I claim, ist, As my improvement of the dies, B and C, the cavities, e.e., for preserving the material for the spurs, c.e., as described.

2d, As my improvement in anger blanks, the projecting portions, b.c.d', of metal, of which to form the lip and spur of the form, and arranged relative to the screw point and cutting bit, as described.

80,028.—MACHINE FOR FORMING SHEET METAL PANS.—W.

H. Teal, Weysuwegs, Wis.

I claim a machine for forming sheet metal pans, consisting of an upper die, H, hinged to a lower dels. F. provided with formers g., so that both dies may be Brimly locked togesher, and the whole operated simultaneously with the lever. B, and actuating guides, D.C, substantisily as herein described.

80,029.—Compound for Roofing.—H. M. Teasdale, Dansville, N. Y.

80,029.—COMPOUND FOR ROOFING.—H. M. Teasdale, Dansville, N. Y.
I claim the combination of the within-specified ingredients when compounded no rabout the proportions described, for the purpose set forth.
80,030.—STEAM PUMP.—W. R. Thomas, Catasauqua, Pa.
t claim the arrangement of the ports, e.e., with relation to the cylinder, A, the rismbers, as 'valve, G, induction ports, b b, and the eduction ports, d. d', all operating as described for the purpose specified.
80,031.—CUTTING NIPPER.—N. Thompson, Brooklyn, N. Y.
I claim coust moting auting inpers so that the cutting edges thereof shall be asclose as possible to the knowle which surrounds the pivot on which the jaws turn, or shall be even-closer to the pivot, with the knowle for motion between the divided edges, as described, and so, sho, that there shall be a good being embraced by the parts of the other, in the manner substantially as here in describe!.

ndescribed:

80,032.—Dressing Barred.—C. Titus, Union, Me.

1 claim the arrangement and combination of the seperate levers or treadles rs, the collars, p q and bent levers, n n' with one-another and the shaft, B, the outter head, A, and the cutter carrier, E q, such head and carriers being provided cutting and aguide ring, D, as set forth.

80,033.—HORRESHOE.—J. S. Toan, King's Ferry, N. Y.

1 claim, 1st, A horseshoe provided with a nail flange, D, and an india-rubber sole, substantially as described.

2d, The clamps, F f, for the purpose of readily securing and removing the india-rubber sole, E, substantially as described.

80,034.—LOCK NUT.—A. N. Towne, Chicago, Ill.

1 claim the corrugated nut, D, and washer, E, constructed as described, when used in combination with an el setic packing or washer.

80,035.—LARD PRESSAND SAUSAGE STUFFER.—A. J. Truxell, Salem, Va.

Salem, Va.
I claim the combination of the removable cup, E, formed with a concaved bottom and spout, F, and provided with a perforated plate, G, with the beach A. lever, C, follower, D, and pivoted lat h, H, all constructed and operating 80,036.—Compound for Welding.—J. R. Tryon, La Crosse,

80,036.—COMPOUND FOR WELDING.—J. R. Tryon, La Crosse, Wis.
I claim the welding flux or compound, substantially as described.
80,037.—Boot Sole.—B. Van Ausdall, Keokuk, Iowa. Antedated July 6, 1868.
I claim as a new article of manufacture a flexible wooden boot sole and heel formed of independent sections of wood riveted to the leather inner sole as herein described for the purpose specified.
80,038.—OFFICE BED.—A. J. Vawter, Indianapolis, Ind. Antedated July 10, 1868.
I claim the case, A, having a front, B, which is hinged at the bottom in the manner specified, the inner face of said front being provided with a bed, C, which is supported either In a horizontal or vertical manner, ny means of the legs, I I, the various parts being constructed and operating as specified.
80,039.—GANG PLOW.—Geo. W harton, Jecsey ville, Ill.
I claim, 1st, Constructing the axle of two parts, H I, connected by a joint, c, in combination with the two levers, J J, all arranged and applied substantially in the manner as and for the purpose set forth.
2d, The foot lever, M. connected with one of the beams, A, and to the post, of the axle, as shown, Ia combination with the shatt, Lx, secured to the axle, and baving the front ends of the beam, the lover, F, connected to the triat pile of the beam, D, draft parts and the lever, F, connected to the draft pile beam, D, draft parts and the lever, F, connected to the draft pile beam, D, draft play be a specified.

80,040.—Lantern.—A. Whelden, South Dennis, Mass.

I claim the periorated base, B, and band, F, in connection with the jacket, D, provided with a perforated top, a, and the plate or deflector, E, all being constructed, arranged, and applied to a lantern, substantially as and for the

constructed, at taked, and applied to the purpose set forth.

80,041.—RAILWAY CAR SEAT.—Albert M. White, Thompsonville. Conn.

1 claim the stude, a a', and grooves, ff and g g, in combination with a car seat, substantially as described and for the purposes herein set forth.

80,042.—Die and Plunger.—Henry G. Williams, Provi-

dence, R. L.
I claim the die, A, when its upper inside edge is fluted or serrated, as described, whereby the tin or other metal to be struck up is crimped evenly to prevent the uneven lapping, and consequent breaking, of the metal, as here 80,043.—Breech-loading Fire-arm.—Thos. Wilson, Bir-

80,043.—BREECH-LOADING FIRE-ARM.—Thos. Wilson, Birmingham, England.
I claim, 1st, The combination, with the breech shoe or shoe cap, of the breech blug, and a spring locking collar or handle, attached to but having a rotary movement independent of said plug, together with the self-engaging lugs, or their equivalents, for holding the collar of the breech shoe, in the maner specified, so that when the breech plug is pushed up to close the breech, the said collar shall be first partially rotated in one direction by the action of the said lugs in entering the openings or recesses in which they are held, and then by the action of its spring, rotated in the opposite direction, to effect the engagement of the lugs, and the consequent interlocking of the collar and breech shoe substantially as set forth.

2d, The rotating locking collar, with its lugs and inclosed spring, constructed and comblined with the breech plug, upon which it is mounted in the maner specified, and arranged to operate in connection with the rear of the breech shoe or shoe cap and the neveled openings and annular space formed in said shoe for the reception of the lugs, substantially as and for the purposes set forth.

3d. The combination, with the breech plug and sliding hammer, of a spring

set forth.

3d, The combination, with the breech plug and sliding hammer, of a spring stop and guide, 1:2, for guiding the said plug and hammer and for holding and releasing said hammer, substantially as shown and set forth.

4th, The combination, with the slotted tubular presch plug and the spring stop and guide, 1:2, of the inclosed sliding hammer, and its jointed catch and sere, both the and stop and the catch or sere being arranged so as to ite partly within the slot in the tubular breech plug, substantially as herein shown and set forth.

iy within the slot in the tubular breech plug, substantially as nerem snown and set forth.

And set forth,

The eafety slide or bolt, v. under the breech shoe or shoe cap, for preventing the accidental retraction of the detent or stop, b2, constructed and arranged to operate in connection with the locking handle or collar, in the manner shown and specified.

6th. The combination and arrangement, with the rotating locking handle or collar, of the locking check bolk for preventing the movement of the iriger until the collar and the breechping are securely fixed or locked in their places, substantially in the manner set forth.

7th. The combination of the traggercheck bolt and the safety slide for locking the detent, with the sliding breech plug and its rotation locking handle or collar, under the arrangement and for operation as set forth.

80,044.—DEVICE FOR SHAIPENING HORSESHOE CALKS.—Peter Winegard, Coldwater, Mich.

I claim the block, A. constructed substantially in the manner and for the

1 Claim the DIOCK, A. constructed substantially in the manner and for the purpose specified.

80,045.—FRICTION CLUTCH PULLEY.—C. Wright, Newark, N. J. Antedated July 10, 1868.

1 claim the set servew. X. when employed in a friction clutch, substantially in the manner and for the purposes specified, the nut being in the stem of the

lock, C. The sliding arm, E, link, w, and eccentric, D, in combination with the ad-i. table block, C, when constructed, combined, and arranged in the manner and for the purpose hereinabove set forth.

REISSUES.

19,908.—Dredging Machine.—Dated April 13, 1858; reiss

3.089.—E. B. Bishop, New Oileans, La.
I claim a revolving excavator or dr-dging machine, constructed andoy rating substantially as and for the purposes set forth. 60,714.—STREET CAR HEATER.—Dated Jan. 1, 1867; reis ue

3029.—JOHNET UAR HEATER.—Dated Jan. 1, 1867; reis ue 3029.—John Gibson, Jr., Albany, N. Y. I claim, 1st, The stove or heater, C, and smoke pipe, e, incased or n t in whole or in part, either without or connected with other suitable heating pipes, other thansteampipes, when arranged under the seat of any traveling conveyance, or in a room under a seat, for the purpose set forth and described.

scribed.

2d. The protection piece. D. constructed and arranged as described, or its equivalent, for the purposes set for thas specified.

3d. The pinch screw. P. or the equivalent, in combination with the dratt doors, m., as and for the purposes specified.

73,807.—LAWN MOWER.—Dated Jan. 28, 1868; reissue 3,030. 75,807.—LAWN MOWER.—Dated sail. 20, 1000, 1022000 of A.M. Hills. Hocksnum, Conn.
1 claim, 1st, The balanced frame on the roller, E, in combination with the bald, of the which the handle, S, is secured, all constructed and arranged to stantially as and for the purpose set forth.
2d, The horizontal cutter, M, having the spiral cutters, c c, when hn gin front of the cutter, D, in a frame, which is adjustable upon the shoes, N N. in the manner and for the purpose specified.

31. The combination of the trame, roller, shoes, cutting device, and handle, all constructed and arranged to operate in the manner substantially as and for the purpose set forth.

61,431—SEED PLANTER.—Dated Jan. 22,1867; reissue 3,031.

161.431 — Seed Planter.—Dated Jan. 22,1867; reissue 3,001.

D. S. Holman, Conneantville, Pa
I claim, 1st, The two seed slides, H.H.; placed one above the other, at the upper part of the two seed slides, H.H.; placed one above the other, at the upper part of the two seed, and having aprings, d, bearing against them, in combination with the wheels, I, and projections, e, having plus, f.g, in their peripheries, all arranged to operate substantially in the manner as and for the purpose set for the metallic tubes, L, and covering shares, O, all arranged and applies as to be capable of operating and being adjusted substantially as shown and set the described. 4th, The seed slides, H.H.; tubes, C, aprings, d, wheels. I, projections, e, with the pins, f.g, in combination with the slides, J, metallic tubes, L, and the covering shares, O, all arranged to operate in the manner substantially as and for the purpose specified.

4th, The seed slides, H. T., tudes, d., springs, d., wheels. 1. projections, c., which the pine, f.g.in combination with the slides, J. metallic tudes, L., and the covering shares, O., all arranged to operate in the manner substantially as and for the purpose specified.

11,729 —PLATFORM SCALE.—Dated Sept. 26, 1854; reissue 3,032.—J.F. Keeler, Pittsburgh, Pa.

1 claim, 1st. The combination of the platform scale with a device acting independently of the weighing levers for the purpose of raising or lowering the platform simultaneously at all points when constructed and operating substantially as described.

2d. In combination with the weighing levers of a platform scale, the intermediate pl tform or frame, G constructed and operating in the manner and for the purpose substantially as set forth.

3d. The combination of a spring balance with the vibrating beam of a weighing scale, substantially as and for the purpose set forth.

8,724.—GRASS AND GRAIN CUTTING MACHINE.—Dated Feb. 10, 1851; relssue 259, dated Feb. 28, 1851; reissue 466, dated June 2, 1857; extended seven years; reissue 3,032.—Division A.—Louisa R. Ketchum, Buffalo, N. I., executive of the estate of Wm. F. Ketchum, deceased.

1 claim, 1st, Extending the shoe, H. G. from the heel of the rack or finser bar upward and forward, and firmly connecting its continuation with the draft when the finger bar is located as set forth, so that the power by which the machine is drawn shall, through the shoe, be communicated to and draw forward the heel of the rack or finger bar, thus relieving the great strain which would otherwise come upon the lateral connections of the rack or finger bar with the wheel frame, while the heel is enabled to slide over obstacles or obstructions, substantially as shown.

2d, When the main wheel and inner end of the short finger bar or rack, D, are loosted relatively to the frame, substantially as described, projecting the hoe, H. G. which supports the inner or heel en of said bar forward and unward from the said heel to a point in adv

ceased. I claim, when the main wheel and innerend of the finger bar or rack, D, are located relatively as described, amporting the heel of the rack or finger bar sufficiently near the ground, and at a convenient distance from the main wheel, by one or more arms or braces extending upward and hack ward therefrom, and connected with terfame or strong bars, fruity bolted across the kame, in rear of the said rack or finger bar, while the said frame or bars are elevated or arranged so as to passover the cut grass, substantially as shown.

shown.

73,122.—GAS LAMP.—Dated Jan. 7, 1868; reissue 3,035.—
Division No.2.—Ripley & Company (assignees of Daniel C. Ripley, Pittsburgh, Pa.

We claim, 1st, The construction of the base, A, and the two handles, B B, ot
one piece, for receiving a blown glass or reservoir, C, substantially as dearchived.

one piece, for receiving a blown glass or reservoir, C, substantially as described 2.4. A pressed base, A, produced with one or two handles upon it, and having a globe, C, blown upon and united to the base and handle, or handles, substantially as described.

3d. The construction of the base, A, and handle or handles, B, in one piece ye asting, and with a concave seat, for supporting and having blown upon the same a bowl or oil reservoir, substantially as described.

14.257.—Refining Iron.—Dated Feb. 12, 1856; reissue 1,686, dated May 31, 1864; reissue 2,118, dated Nov. 28, 1865; reissue 3,036.—Christian Shunk, Philadelphia, Pa.

I claim, ist, The refining and decarbonizing of mothen crude from by the employment of an armospheric air blast, uniting the oxygen of the air with the carbon of the crude metal, and thereby decarbonizing, or partially decarbonizing, and refining the same thus preparing it to be molded into inskip, or otherwise, of iron or steel fit for the hammer or the rolls, or to be molded into castings, or to be reconverted into fine castisteel.

2d. Such alloying, when effected by the intro-uction of the oxide of manganese, as above described, by which the ore is not only reduced, but the metal is thoroughly tused and incorporated with iron through the instrumentality of the high heat produced by the air blast, in the manner above shown.

3d. The use of a compound, consisting ρ common salt and manganescas a

mentality of the high heat produced by the air blast, in the manner above shown.

3d, The use of a compound, consisting of common salt and manganese as a flux and debrygent in said process, as set forth.

66,268.—MANUFACTURE AND PRESERVATION OF LARD.—Dated July 2, 1867; reissue 3,037.—Division A.—Charles Lafayette Tucker Chicago, ill.

I claim, 1st, The box herein described, when constructed without a lid or coverrim, and with straight, even sides, from top to bottom, substantially as and for the purposes specified.

2d, The application of gumarable, or its equivalent, to lard packages, for the purpose of making them tight and non-assorbing, substantially as specified.

66,268.—Manufacture of Lard.—Dated July 2, 1867; reis-

sue 3,088.—Division B.—C.L. Tucker, Chicago, Ill.
I claim, ist, The application or use of a tin or lead foil, or foil-paper covering or lard packs es, constructed of wood or paper, substantially as and for the unposess specified.

I claim, ist. The application or use of a tin or lead foll, or foil-paper covering for lard packs as, constructed of wood or paper, substantially as and for the purposes specified.

2d, The process of putting up lard in a light wood or papercasing or box, by drawing or pouring the lard therein in a fluid state, and closing up the easing or box by inserting the head so as to leave a small space between the lard and the head, to provide for expansion, substantially as specified.

3d. As a new article of manufacture, small measured or specified quantities of lard incased in a light wood or paper casing or box, substantially as and for the purposes specified.

66,268.—PROCESS OF PUTTING UP LARD FOR STORAGE AND TRANSPORTATION.—Dated July 2, 1867; reissue 3,039.—Division C.—C. L. Tucker, Chicago, Ill.

1 claim the mode herein described of packing lard for transportation or storage, by first packing the lard in separate small packages of light wood or paper, and inclosing such small packages in an outer, close-fitting case, substantially as specified.

71,670.—CUTTER FOR WOOD MOLDING.—Dated Dec. 3, 1867; reissue 3,040.—John Whitworth and W. H. Hawkins, Cleveland, Ohio, as steness of John Whitworth and W. H. Hawkins, Cleveland, Ohio, as set forth, as a new article of manufacture.

DESIGNS.

3,095 and 3,096.—CENTER PIECE.—Henry Berger New York city. Two Patents. 3,097.—IMITATION BRAID FOR BONNETS.—S. A. Blake, Milford Conn.

3,098.—Clock Case.—Paschal Converse, New Haven, Conn. 3,099.—Parlor Stove.—J. B. Geyser (assignor to Mitchell,

Stevenson & Co.,) Pittsburgh, Pa. 3.100.—BOTTLE.—John Hart, Lancaster, Pa. 3,101.—FLOOR OILCLOTH PATTERN.—R. Hoskin, Brooklyn, assignor to E. C. Sampson, New York city.

3,102.—Trade Mark.—D. D. Mallory, Baltimore, Md.

3,103.—ARMY AND NAVY EMBLEM.—John P. Reynolds, Sa-3,104.—CARPET PATTERN.—R. R. Campbell (assignor to Low-

ell Manuficturing Company), Lowell, Mass 3,105 to 3,107.—STOCKING FABRIC.—T. Dolan, Philadelphia Pa. Three Patents.

3,108.—Knife Handle.—R. H. Fisher, Beaver Falls, Pa. 3,109.—FIGURE.—Carl Muller (assignor to Nicholas Muller),

w YORK CITY. -FORK OR SPOON HANDLE CALLED "BRIDAL"—Geo. kinson (assignor to Gorham Manutacturing Company), Providence,

R.I. 3,111—KNIFE OR FORK HANDLE CALLED "IVY."—George Wilkinson (assignor to Gorham Manufacturing Company), Providence

R. 1.
3,112.—KNIFE OR FORK HANDLE CALLED "ELIZABETHIAN."
Geo. Wilkinson (assignor to Gorbam Manufacturing Company), Providence, R. I.

Inventions Patented in England by Americans. [Compiled from the "Journal of the Commissioners of Patents."]

PROVISIONAL PROTECTION FOR SIX MONTHS. 1,588.—APPARATUS FOR MARKING OR DIRECTING BOXES AND PARCELS.—Win, W. Secombe, New York city. May 14,1868.

1,898.—EMBROIDERING APPARATUS FOR SEWING MACHINES.—Singer Manufacturing Company, New York city. June 10, 1868.

1,912.—CRMENT.—Chas. D. Pesaley, Biddeford, Me. June 11,1868. 1,918.—Governors for Stram and other Engines.—D. la Forest Chase, Boston, Mass.—June 12, 1868.

1,920.—Treating Quartz and Silicious Substances to Obtain Hyda te of Silica, and Applying the Same.—A. L. Henry, Boston, Mass. June 12, 1868.

1,928.—ANCHOR.—F. Wittram, San Francisco, Cal. June 12, 1868.