### THE ATLANTIC CABLE.

A correspondence has just been published by F. N. Gisborne, in relation to the origin of the Atlantic Cable, the conception of which, he states, washis, as well as a great part of the labor required before capitalists would even take the matter into consideration. We think the statement of Mr. Gisborne is very likely correct, but the credit due to Mr. Field is, that mainly through his perseverance the enterprise became a success.

It is announced that a submarine cable is to be laid next year, connecting the coast of France with this country. It is in the hands of Mr. Erlanger, the celebrated banker, and Mr. Reuter, who enjoys considerable notoriety for his sensation telegrams.

### PLANCHETTE.

We have received a large number of readable communications, claiming to explain the mysteries of Planchette-fair examples of which have already appeared in our columns. The whole discussion, thus far, is chiefly speculative, always tending to religious and spiritualistic notions.

We fail to discover any substantial benefit to be gained from a continued discussion of this subject. We therefore drop it until some more reasonable explanation is put forth. We never did believe very much in the operations of ghosts and spirits, therefore it is hard for us to conclude that the little three-legged stool, provided with a pencil, and called "Planchette," has anything whatever to do with spirits. It is simply an amusing plaything.

# OFFICIAL REPORT OF PATENTS AND CLAIMS

Issued by the United States Patent Office.

FOR THE WEEK ENDING JULY 28, 1868.

Reported Officially for the Scientific American.

PATENTS ARE GRANTED FOR SEVENTEEN YEARS, the following

being a schedule of tees:—	
On thing each Caveat,	
On filing each application for a Patent, except for a design On assume each original Patent. On appeal to Commissioner of Patents.	\$15
On issuing each original Patent	
On appeal to Commissioner of Patents	*20
On application for Ressue	\$30
On application for Extension of Patent	
On granting the Extension	\$50
On ding a Disclaimer	
On filing application for Design (three and a half years)	*10
On filing application for Design (seven years).  On filing application for Design (fourteen years)	\$15
On thing application for Design (fourteen Fears)	
In addition to which there are some small revenue-stamp taxe	s. Residents
of Canada and Nova Scatta nov \$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 information useful to Inventors, may be had gratis by addressing MUNN & CO.. Publishers of the Scientific American. New York.
- 80,264 NEEDLE FOR KNITTING MACHINES.—Ransom Allen,

Salem, Mich.
1 Claim the movable shank, b. attached to the body of a knitting machine needle, and operated substantially as and for the purpose herein described.
80,265.—Steam Generator.—Jonathan Amory, West Rox-

bury, Mass.

1 claim, 1st. The combination of the heating curve and its Dipe or pipes for receiving air, with the fire box of the boiler, arranged and operating substantially as described.

2d. The combination of the heating curve and its pipe or pipes for receiving air, with an air chamber, K, arranged and operating substantially as

scribe 1. 80,266.—Shutter and Window Fastening.—Wm.L. Barnes.

80,200.—SHUTTER AND WINDOW LASTENING.—W m.L. Barnes, Irvington, N.Y. whedated July 11, 1868.
I claim the boit, F, constructed as described, and secured to the innerside of the sash, A, arranged in relation with the blind hasp, A, and staple the blind oeing held closed when the sash is raised, and locked by the boit, F, pastig through the staple above the hasp, A, when the sash is lowered, which inverient also locks the sash, as herein shown and described.
80, 207.—MANDFACTURE OF CARRIAGE SHAFT COUPLINGS.—Henry M. Beecher (assignor to H. D. Smith & Co.), Plant-ville, Conn. I claim the above described process or method of making the shaft connection blank, the same consisting in forming it with the head part, A, and the shaws, B, and subsequently cuting it through on the lines, e.e., and finally beuding the portions, if, around into right or nearly right angles with the shank part, B.

beuding the portions, It, around litto right or nearly right angles with the shank part, B.

Also, the machine, substantially as described, for creasing or cutting the blank, and bending the portions, f. I. of it around into or nearly into right angles with the shank, such machine being composed of the bed plate and standard, the two levers, the follower, and the two pairs of creasers or cutters, the whole being arranged foruse in manner as specified.

80 268.—APPARATUS FOR CARBUILETING GAS AND AIR.—

Alonzo T. Boon and Albert D. Perry, Galesburg, 1!!.
We claim the emery receptacle, F, when combined and arranged with float
i, screw red, H valve, m, pipe, N, and pipe, a, substantially in the manner
and for the purpose as hereinshown and described. and for the purpose as hereinshown and described. 80,26J.—Tuck Creaser for Sewing Machines.—Edward

80,26.).—TUCK CREASER FOR SEWING MACHINES.—Edward Bostock, Albany, N. Y.
I claim, 1st. A tuck creasing device constructed substantially as described, in combination with the plate, A, and gage plate. D, both constructed and arranged substantially as described, and the plate, D, serving to confine A to the bed plate, as set forth.

2d, A gage plate or guide for a sewing machine, when provided with an a justable piece. I. having a slot, as and for the purpose set forth.

3d. The gage plate, H, slide, I, and creasing device combined, to admit of adjusting the apparatus in any desired position relatively to the needle and feeding device of different machines by means of a single screw.

4th. The tuck creaser and gage plate, for use with or without a sewing machine, when the whole is constructed as described.

80.270 — There Cepaser for Sewing Machines — Edward.

-Tuck Creaser for Sewing Machines.—Edward

80,270.— IUCK UREADER FOR SUBSTRUCT BOSTOCK, Albany, N. Y.
I claim, 1st. the combination with the tuck creasing devices, of a sliding wenge, eccentric, or a slide and lixed inclined plane, on the base plate, substantially as and for the purposes nown and described.
2d. In combination, the spring arm, and its creasing and pressure adjusting devices, and the fixed stand or yoke, E, substantially as and for the purpose

setiorth.

30., 10. tuck creaser and its rage plate, constructed with their coinciding slots at an single to the creasing arm and her of statching, a described, so that, when affixed to a machine by means of the thumb screw and screw hore, and meved he a shaning of rection fer adjustment, the parallelism of the line of creasing with the line of feed may always be preserved.

410. The devices herein described, the same constituting the tuck creaser, constructed as specified. constructed as specified. 80.271.—Car Coupling.—C. T. Burchardt, New York city

COLOR COUPLING.—C. I. Burchardt, INCW 1018 City. I claim, is, The car coupling composed of the hook, El. bearing piece, H. links, G. and the spring frame, B. when connected with the main spring, C. all substantially as her ein described and for the purposes sp-cified.

2d. The beveledor couble inclined bearings, a2 a3, arranged relatively to the main spring, C, and spring frame, B, and its connections, as and for the purposes herein specified. 80.272 —HARVESTER.—H. K. Burnett, Poughkeepsic, N.Y.

ou, 212—11ARVESTER.—H. K. Burnett, Poughkeepsie, N.Y. I claim, 1st, The cams, D D rotated by the graring, BC, in combination with the arm, U, roller, E, and jointed pitting, C, convecting the arm, U, to the cutter bar, h, sub-tantially as set forth.

2d, The bar, K, at the end of the finger bar, H, and jointed at Q, to the shoe. R', and arm, X, as and for the purposes set forth.

3d. The shoe, R', joined to the arm, X, in combination with the slotted brace, I, ingel bar, H, and cutters, i, arranged and operating as and for the purposes set forth.

80 273. BOOT SOLING MACHINE.—Thomas Cabourg, Paris

France. I camb, lst. The construction and use of the pulley, A, on which is wound the wire to be tapped, substantially as hereindescribed.

2d, The construction of the tapping prate, substantially as described.

3d. The construction, disposition, and simultaneous action of the knives, substantially as described, and more fully shown in the drawings.

80.274.—Fishing Seine.—John Collines, Ecorse, Mich. An-

tedated July 18, 1868.
I claim the application of the braces marked A A, as above, to a seine or pet, substantially as and for the purposes herein described.

80,275.—Coal Stove.—John Cooper, Dublin, assignor to himself and Bennett F. De Witt, Indhanspells, Ind.

and Subject to the addition, D, separated from the fire chamber by the partition, I, and subdivided introcompartments. H. J. by the partition, I, as set forth, and, in combination therewith, the firduction rippe, E, eduction pipe, F, and chamber, L, arranged substantially as set forth.

-Machine for Unloading Railroad Cars.—John

OU.270.—MACHINE FOR UNLOADING MAILROAD CARS.—John Dible, Chicago, Ill.
claim, 1st, A swing frame of a car uploading inachine, provided with head plates, B B, having convex surfaces presented to the sides of pulleys, C C, which are perforated and otherwise constructed suistantially as described. 2d. Projections, h. adapted to give as quards or fenders for pulleys applied to the swinging frame of an unloading machine, substantially as described.

ed.
Perforated guards. h, perforated pulleys, C.C. and convex surface bead,
B.B. applied to the swing frame of an unloading machine, substanas described.

80,277.—Hop Hook.—Elon Denio, Baldwinsville, and Elon

80,277.—Hop Hook.—Lion Denio, Dandwinsvine, and Lion C. D. Dio, New Hartford, N. Y.
We claim, 1st, The hep cultivator formed of the hoe or hook, combined with the Knife, substantially as and for the purposes specified.
2d, The ferrule, with the rai-ed projections or eurs, and slot, or their equivalents, for securing the linite in place, in combination with the hoe or hook, of one or more times, substantially as and for the purpose set forth. 80,278.—Stops for Fore-and Aft Sails.—Jacob Edson

Boston, Mass.
I claim the arrangement and combination of the saddle, D, with the spring's. H H, theirrods, A. and the sliders, F' F, connected with the ring, E. Also the arrangement and combination of the arched and annuar links, G G b b, and the arms, a' a', with the ring, E, and the sliders, F, and springs, H, applied to the rod or bar, A, extending between them and from abutments, B B, as set forth.

80.279 — FURNACE FOR TREATING ORES.—Samuel H.Folsom, Whichester Mass.

Winchester, Mass.

Winchester, Mass.

John a senter of two or more revolving tables placed within a furnace, A, and operating survivantially as described, for the purpose herein set forth.

Also, the revolving cylinders, m no, with their inclined guides, in combination with the flue, G, operating substantially as described, for the purpose

set forth.

Alse, a central deflector, O, applied to a table, C or D, for the purpose of more thoroughly distributing the flame over its surface, substantially as set

orth.

Also, the inclined stationary stirrers, a' b', in combination with a revolving table, C or D, sub-tantially as d-scriped.

Also, the scripers, f', on the under surface of a table, C or D, in combination with a projecting eige or shell, e', beneath the table, substantially as and for the purpose set ierth.

and for the purpose set to the

80,280.—STOVE AND FURNACE GRATE.—Bartholomew Gommenging r and Chas. W. Trotter, Rechester, N. Y.

We claim, 1st, The grate, a, when constructed and operated in the manner
and for the purpose specified
2d, 1n combination with the grate, a, the sliding ring, e. when constructed
and operated in the manner and for the purpose specified.

80,281.—LAMP BURNER.—Richard Gorsline, Rochester, N.Y.

Lelam the combination of the open frame B and transparent bettom

80.281.—LAMP BURNER.—Richard Gorsline, Rochester, N.Y. I claim the combination of the open frame, D, and transparent bottom plate, G, when arranged in connection with the removable cone, H, and fixed rim, t, the whole as hereinset forth.

80.282.—LAMP CHIMNEY.—John Gracie, Pittsburg, and Robert H. Boyd, Hulton Station, Pa.
We claim, 1st, Providing a lamp chimney with an elliptic flange, substantially as herein described.

2d, In confibration with the above, a lamp top provided with a flange, portions of which prefect inward for the purpose of catching, grasping, and helding the chimney in position, the contour of said flunge corresponding to the form of the flange of the lamp chimney, substantially as herein described and for the purpose set forth.

80.283.—MACHINE FOR PRODUCING A RECEIPERGATING Mo-

80 283.—MACHINE FOR PRODUCING A RECIPROCATING MO-

80 283.—MACHINE FOR PRODUCING A RECIPROCATING MOTION IN KNITTING MACHINES, ETC.—Sentimus Haslam, Jr., New Britain, Conn., assignor to idinself and John B. Talcott.

1 claim, 1st, The combination with the shaft, b, of the sleeve, d, carrying the clutch and whe 1st, ff, and the collar, k, and collar, i, on the shaft, and clutch, m, or its equivalent, substantially as described.

2d. Thegears, ff', arranged upon the sleeve, d, in combination with the clutch, e, plate, q, npon the shipper, p, and spring, s, or their mechanical equivalents, with the gears, 3 4 5 1, and chain, v, for the purpose substantially as described.

80,284—Cloar.—Frederick L. Hilbright, Newark, N. J., assignor to burself and Chase, E Woodman, Beston, Mass.

signor to himself and Chas. E. Woodman. Boston, Mass. I claim the combination and arrangement of the foraminous ferrule or cap with a cagar, the same being substantially as explained and represented. 80,285.—Address Printing Machine.—Henri Julien, Otta-

80,285.—ADDRESS I MARKET AND THE STORES. A first was Canada.
I claim, 1st, The combination with the vertically sliding press, A, of the rack, B, pinion, C, shaft, D, spring, p, and the mechanism for operating the shaft, D, snbstantially as and for the purpose described.
2d, The combination with the party, P, and connecting rod. E, of the mechanism for cennecting them and disconnecting them with the pirts to which they communicate motion, substantially as and for the purpose described.
80,286.—MACHINES FOR DRESSIN® STONES.—Francis L. King, Worcester Mass.

80,286.—MACHINES FOR DRESSING STONES.—I rancis L. King, Worcester, Mass.

I chim, 1st, The peculiar construction of the self-adjusting frame, with its shaft, gears, grooved racks, and set screw, B. when constructed and operating substantially as and for the purpose specified.

2d, The carriage, A. spindle, B. or its equivalent, apron, H. constructed and operating substantially as and to the purpose specified.

3d, The tucks, C.C. disk, E. and curb. I. constructed and operating substantially as and for the purpose specified.

4th, Gearts, F and L. shaft, K. constructed and operating substantially as and for the purpose specified.

5th. The peculiar relative position or adjustment of the carriage, A, and grinders, M, upon different conters, whereby the irregular or eccentric mortion is produced, arranged and operating substantially as and for the purpose specified. pose specified.
6 b, the combination of the hopper, R, hollow shaft, N, the grinder box. M, with the carriage, A, with its various bearings, constructed and operating substantially as and for the purpose specified.
80,287.—MANUFACTURE OF CIGARS.—William C. Kneeland,

801,267.—BLANGFACTURE OF CIGARS,—WIHIRM C. Kneeland, Breoklyn, N. Y. I claim as a new article of manufacture a cigar made with a cut-tobacco filer, suistantially as described.
80,288.—FRUIT PICKER.—John A. Knight, Durham, Mc. I claim the truit gatherer as described, combining the removable lead, a, clare of teeth, c, handle or pole, a', jointed conductor, l, attached as described to the pole, and having the peculiarly formed chucks, p, as and for the pole oses described. the purposes described. 80,289.—Tables, Benches, etc.—David S. Leavitt, Grand

COLORS—I ABLES, DERICHES, ETC.—David S. Leavitt, Grand Rapids, Mich.

I claim the combination of the dovetail fastening, B, hinged legs, C, wedges or pins, and rods, when applied and used in the numner and for the purposes shown and described.

80.290—CAR BRAKE.—Samuel M. Lee, New London, Iowa.

1 claim, in combination with an independent piston, it the arrangement of a forked bar, b, with the timber, and a single bar, c, with the car, for operating said bar, c, at either end, substantially as and for the purpose described.

80,291.—TEETH FOR GEAR WHEELS.—John Letskus, Allegheny City, Pa., assignor to himself and Richard Brown, Youngstown, Ohio.

Unio.

I claim curved gear feeth for wheels and pinions, the upper and lower dges of which are arcs of curves of equal radius, having their centers in he same right line, constructed substantially as and for the purpose hereinsefore described.

80,292.—Rose Engine Lathe.—Thomas Lippiatt, New York

80.292.—Rose Engine Lathe.—Thomas Lippiatt, New York city. Antedated July 11, 1863.

I claim, ist, The arrangement of the swinging frame, H, carrying a tracing pin, e. or an equivalent device, the vertically sliding die or pattern, J, mandrel, K, and engraving tool. d, operating substantially as herein specified. 2d. The arrangement of the revolving die or pattern, N, the swinging frame O, and tool box, F, operating substantially as herein de cribed.

3d. The combination of the servine word, S, and shaft. L, with the sleeve, M, and die, N, substantially as serein specified. For siving a lateral progressive methods on the said die, and the servine of the revolving die or pattern, P, on the mandrel shaft, it can be swinging frame, H, and tool box, F, operating substantially as herein specified.

80.293.—Telleraph Instrument.—George Little, Hudson City, N. J.

City, N. J.

I claim, 1st. The combination of a pen with a reservoir.

2d. The combination of a pen, reservoir, and coil.

3d. The combination of a pen, reservoir, and coil, with paper properly combination of a pen, reservoir, and coil, with paper properly.

actuated.

4th, The combination of a pen, reservoir, and properly moved paper.

5th, The combination of a pen, float, and reservoir, and all of these in combination with coil, and all of these also in combination with properly actuated paper.

ared paper.

The combination of a pen and a reservoir, having an opening therein for the protrusten of the pen, with a r gniating tube, and all of these in combination, first, with a float, second, with a coil, and third, with properly actu-

bination, first, with a noat, second, with a conjugation and a permanent att-d paper.

Tth, The combination of a pen with a reservoir of fluid and a permanent magnet properly located, and all of these in combination, first, with a fleat, and second, with a coil, and thirdly, with both a coil and fleat.

8th The combination of a pen, a reservoir, and a coil, when the reservoir is vertical and provided with an opening at the bottom thereof, and the pen passes through the opening, and the coil surrounds the vertical reservoir, and these parts thus relatively arranged in combination with a regulating tube.

The combination of a pen, a vertical reservoir, open at bottom, a coil surrounding the reservoir, and a permanent magnet, lecated above the reservoir, and all these parts thus relatively arranged, in combination with a permanent magnet, located below the reservoir and pen.

10th, The combination of the following parts, viz, a pen, a float, a reservoir of fluit, a regulating tube, a coil, a pyper properly actuated, and these in combination with a permanent magnet, so located as to influence the pen, all these contoniations, and the parts or elements making up the combinations, being substantially such as herein specified and set forth.

80,294 — Still for Hydrocarbon.—Charles Lockhart and

OJ.534—STILL FOR HYDROCARBON.—CHAITES LOCKHAIT and John Gracie, Pittsburg, Pa. I claim. 1st. he chimney, D, combined with a series of fire chambers, z, and smoke chamber, m, constructed, arranged and operating substantially as herein described, and for the purpose set forth. 2d, Making the chimney, D, the axis of the wheel, 7, used for rotating the scrapers, in the manner substantially as herein described, and for the purpose set forth.

3d, The arrangement of the column, e, pipes, g and f3, openings, 10, and valve, z2, constructed arranged, and operating substantially as herein described, and for the purpose set forth.

4th, Providing a still for hydrocarbons with a valve, which will act from an aternal or external pressure, substantially, as herein described and for the

Internal or external pressure, substantially, as herein described and for the purpose set forth.

80,295.—Bolt.—Ben jamin F. Lotridge, New York city.

I claim, in combination with the slotted case, B, the bott. C, tongue piece, G, set serew, H, and spring, D, when the same shall be constructed and operated substantially as described for the purpose specified.

80,296.—Fruit Jar.—W. W. Lyman, West Meriden, Conn. Iclaim, 1st, The combination of langecas, f, having incline or wedge elevations upon its outer edge, g, with a gas set seat, d, gasket, c, yoke, h, and ring, b, substandally as and for the purpose described.

2d, The combination of the flange cap, f, elevations, g, yoke and pin, h i, with the gasket and seat, e, d, substantially as and for the purpose described.

80,297.—Butter Dish.—William W. Lyman (assignor to Meriden Britannia Company), West Meriden, Conn.

I claim the right and left hand serew actuating fallerum, in combination with the cover, a", and body, a, constructed and operating substantially as and for the purpose described.

80,298.—MACHINERY FOR MAKING PAPER BAGS.—George H.

80,298.—Machinery for Making Paper Bags.—George H. Mallary, New York city.

1 claim, 1st, The clamp, formed of the bar. L, the shaft. K with its lags, t, when combined with the supporting bars, u, substantially as set forth.

2d, The clamp, formed of the sides, W and Y, and the juw, 31, when combined with the folders, 66° and the cains, 55°, substantially as described.

3d, The cross head, Z the fooding blade. 15, and the pasting roller, 13, when combined and arranged substantially as described.

4th, The levers, D and E, the erank. e.c. the clamp formed of the bar, L, and the shaft. K, with its lags, t, and the clamp formed of the sliders, W and Y, and the jaw, 31, all combined and operating substantially as described.

90,299.—MANUFACTURE OF ARTICLES OF SOFT RUBBER.— George W. Martin, (assignor to bimself and J. W. Haskins) Boston, Mass.

dass. Baim an elastic screw thread, substantially as described.

S0,300.—CANE SEAT.—George W. Martin (assignor to himself and J. W. Haskins), Boston, Mass.
I claim a movuble cane seat, having sunken bearings, g. as specified, and so constructed as to be reversible, and present each side to the front, substan-

as and for the purpose described. 80,301.—PORTABLE ROOFS FOR HAY STACKS, ETC.—Thaddeus Munson, 'anandalgua, N.Y. I claim the commented by hooks, a at a2, of the bracing cleans, c.c., at the top, and the commented by hooks, a at a2, of the bracing cleans, c.c., at the top, and the commented by hooks as at a2, of the bracing cleans, c.c., at the top, and the commented by hooks, a at a2, of the bracing cleans, c.c., at the top, and the commented by hooks, a at a2, of the bracing cleans, c.c., at the top, and the commented by hooks, a at a2, of the bracing cleans, at a2, of the bracing cleans, c.c., at the top, and the commented by hooks, a at a2, of the bracing cleans, a c.c., at the top, and the commented by hooks, a at a2, of the bracing cleans, a c.c., at the top, and the commented by hooks, a at a2, of the bracing cleans, a c.c., at the top, and the commented by hooks, a at a2, of the bracing cleans, c.c., at the top, and the commented by hooks, a at a2, of the bracing cleans, c.c., at the top, and the commented by hooks, a at a2, of the bracing cleans, c.c., at the top, and the commented by hooks, a at a2, of the bracing cleans, c.c., at the top, and the commented by hooks, a at a2, of the bracing cleans, c.c., at the top, and the commented by hooks, a at a2, of the bracing cleans, c.c., at the top, and the commented by hooks, a at a2, of the bracing cleans, c.c., at the top, and the commented by hooks, a at a2, of the bracing cleans, and the commented by hooks, and a2, of the bracing cleans, at a2, of the bracing cleans, and a2, of the bracing cl

for the purpose set forth. 80,302.—1.AMP.—Person Noyes, Lowell, Mass. Antedated July11, 1868.

July 11, 1868.

I claim the use or application of a cap or stopple, a, to the top end of the wick tube of a lamp which has an outer ja ket, sleeve, or other similar or analogous device, when said cap or stopple is constructed and arranged to operate substantially as and for the purpose see forth.

80,303.—CULINARY APPARATUS.—William W. S. Orbeton, Bradford, Mass.

Bradford, Mass.

I claim the improved brazier as connected with the main air supply openings, a a, etc., the auxiliary inducts, BB, etc., and the eduction openings, e, arranged and combined together substantially in the manner and so as to operate as set forth.

Also, in combination therewith, the annular register supporting plate, C, as any for the purpose a described.

Also, in combination therewith, the annular register supporting plate, C, as and for the purposes described.

Also, the combination of the main and auxiliary air inducts, a B, the discharge openings, c the fire pot cover, D, the annular register supporting plate, C, the latter having a dome or cover applied to it in the manner and for the purpose as explained.

Also, the combination of the hoop or band. F, with a brazier or cooking apparatus constructed in other respects substantially as set forth, the same being for the purposes explained.

80,304.—MACHINE FOR MAKING KNITTING MACHINE NEEDLE STRAWS. JOSES. Parking Lake Miller, N. H.

SHANKS.—JesseS. Perkins, Lake Village, N. H.
I claim the combination of the friction jaws, de, or the equivalent thereof, and the dies and cutters, fg no p, arranged and provided with mechanism substantially as described, for operating them in the manner and forthe purpose as specified.

80,305.—Hanging for Gates.—PeterRasar and D. J. Mayes, Illiopolis, III.
We claim the rollers, d d', plate, c, and yoke, k, of a self-closing gate, when irranged in relation to each other and the rest of the gate, substantially as ind for the purpose specified.

-SMUT MILL.-Richard Redfield and James H. Rcd-50,500.—SMOT MILL.—Michard Reducted and James II. Reditied, Salem, Ind.
We claim, Ist, The arrangement of the horizontal fan., J. blast spout, B B6, branch spout, B1, parition. S., vibrating trough, C g, and horizontal spirally slotted case, E y, and horizontal beater, F J, substantially as and for the purpose described.

pose described.

2d. The relative arrangement of the blast spout, B Bl B6 S', hopper, A. box, d', vibrating roughened surfaced trough, C, openings, fi', spout, D, hopper, P, horizontal case, Ey, horizontal heater, Fj, passage, T, inclined spout, T1, vertical spout, T2, cap, H, and inclined receiver, H', substantially as described.

80,307.—Measuring Faucet.—Thaddeus S. Reeve, Chi-

80,307.—MEASURING FAUCET.—Thaddeus S. Reeve, Chicago, III.
I claim a measuring faucet, consisting of screw, A, stop, B, gate, D, cylin der, E, piston, F, and gage, H, arranged substantially as described.
80,308.—HONSE POWER.—M. A. Richardson, Sherman, N. Y. Iclaim, 1st, The friction brake, D, and nut, d, applied to the operating parts of a borse power, substantially as and for the purpose set forth.
2d. The combination and arrancement of the driving wheel, I, with the friction device, D d, in such a manner as to be removable from the bed, either separately or log-ciber, by the removal of the nut, d, as explained.
80,309.—PEAT MACHINE.—Marvin S. Roberts, Rucine, Wis. Antedated July 14, 1868.
1 claim, 1st, The digring apparatus, D, consisting of box, E, plunger, F, and endless chain, (d, with buckets, H. H. combined and operating as described, and the whole secured to the boat, A, and provided with continuous automatic movement along the semi-circular curve, A', by means substantially as described, or other equivalent means.
2d, The inode of automatically regulating the semi-circular to-and-fromovement of the digging apparatus, D, a long the curve, A', by means of double wheel, m, lever, P', and stops, Q, substantially as here in set forth and specified.

3d. The perforated bucket.—H, provided with the hinged bottom, F', and

double w heel, m. lever, P', and stops, Q, substantially as heen in set forth and specified.

3d. The perforated bucket. H. provided with the binged bottom, F', and spring catch, c', in contination with the guides, h', when arranged to operate as described.

4th, The segment-i gear, A' and A'', arranged as described, in combination with the digging apparatus, and the mechanism for operating the same, substantially as heein described.

5th, The cuttingflange, T, of the outer pulley. S, of the flange, F, to cut peat in the bed, and to thus facilitate the operation of the buckets, substantially as set forth.

6th, The grinder, Z, consisting of revolving toothed and furrowed plate, B'. provided with spurs, D'D', and constructed as described, and of stationary furrowed concave, C', provided with toothed arms, o'o', and operating by means of set screws, p'p', the whole arranged and operating substantially as set forth, for the purpose of crushing, working up, and pulping peat, as described and specified.

7th. In combination with the grinder, Z, the partially revolving hoop, E', provided with bag, F'', constructed as described and securied to the great conveyer, G'.

8th. The boat, A, constructed as described, in combination with digging apparatus, b, and grinder, Z, to be used on watery peat bogs, substantially as herein described.

80.310.--Thill Coupling--Clark Robinson, Fox Lake, Wis.

I claim the socket, D D in combination with the pivot, K having a notch, the strap. A, and stop, E, substantially asset forth and shown. 8, the stap, a, and stop, g, substantially asset forth and stown.

80,311.—SAD IRON HOLDER.—G. H. Roth, Boston, Mass, I claim the guard, as made with the lateral passages, e.g. a ranged in it, and with lawhes, D D, to embrace the parts, d d, of the handle, and cover the passages e.g.

and with latches, D D, to embrace the parts, d of the handle, and over the passages, e.e. Also, the combination and arrangement of themovable covers, G G, with the guard, made with the slots, e.e., and provided with latches thereto, as set thereto. 80,312.--BED BOTTOM.--Isaac N. Sheets, West Jefferson,

Onc.
Iclaim the combinat, on of the coiled springs, G. the tension rubbersprings, N and the hing of levers 1, substantially as set forth.

80,313.—Bosler Flue Plug.—William M. Sinclair, Balti-

more, Md.

I claum the flanged tubular plug, C, constructed with a longitudinal slot or slots, f. between the lugs, e, at its inner end, and a circumierential slot or slots, g, about in lue with the end of the slots, f. for use in combination with the wedge or wedges, d, subsignitially as an for the purpose set forth.

Decial Smith (Vador Falls Iowa)

the wedge or wedges, d. substantially as ano for the purpose set forth. 80 314.—PLOW.—Daniel Smith, Cedar Falls, Iowa. 1claim, ist, A mold board for plows, which is made entirely of glass, substantially as described. 2d. The combination of a glass mold board and a metal share, substantially as described. 3d, Securing aglass mold board to a plow frame, by means of clamps, a b, ortheir equivalents, substantially as described. 4th, The construction of the side clamps, a b, with curved overhanging lips, a b, substantially as described. 80,315.—CULINARY APPARATUS.—Volney M. Thomas, Brandon, Vt.

don, Vt. 1 claim the arrangement and combination of the steam chamber, A, conducting pipe, D, and grate, G, when constructed and operating substantially

ducting pipe, D, and grate, G, when constructed and operating substances as and for the purposes herein set forth. 80,316.—CLOTHES DRIER.—L. B. Waterman, Chicago, Ill. I claim a det-chable clothes drier consisting of the hinged bands. A, having the bars, B. Diveted thereto, and arranged to be secured to a stove pipo by means of the brace or pawl, b, and theratchet, or its equivalent of rubber,

-Coffee Mill.-Edwin Watrous, Mystic River, Conn I claim, 1st. The grinding inill, in which the flange or attaching device is Jaced at an inclination to the axis of the mill, for the purposes and substanplaced at an inclination to the axis of the mill, for the purposes and substantially as set forth.

2d. The hollow clamping washer, 7, in combination with the lug. 8, on the flunte, b, for attaching the mill when the parts are slipped behind the screw heads substantially as shown.

3d. The flunges, 12 and 8, constructed and applied, as shown, to the shell, b c, in combination with the hopper for attaching the latter, in the manner herein set forth.

80,318,-Foundation for Fences,-Thomas W. Welch and George B. Starbird, Mechanicsburg Pa. We claim the part, A A, the parts, B B, the parts, C C, the octaganal or

- round top, DD, the notched cross bar. E. the conical or pyramidal parts, F F F, etc., and the bolts and bur., H H, all combined and operating in the manner and for the purpose her cinset forth.

  80,319.—Pad for Horses' Hoofs.—Joseph L. Wetherell,
- Attlehoro, Mass.
  I claim my improved elastic beel cushion, as made with the two flanges, as arranged and combined with its body, and for use, substantially as spec
- ified. 80,320—Railway Chair.—William Wickersham, Boston,
- OU., 220.—RAILWAY CHAIR.— WIIIIAIN WICKETSBAM, BOSTON, Mass.
  I claim, 1st, In railway-rail chairs, the wcdge, c, in combination with the spring, I, and the chair, operating substantially in the manner and for the the purpose set forth.

  2d, The wedge, d, in combination with the wedge, e, and the chair, substantially in the manner and for the purpose set forth.

  80,321.—METHOD OF SUPPORTING CHILLS IN CASTING.— William H. Wiley, Fredonia, N. Y.
  I claim the pedestals, C.C., constructed and manipulated with the flask and pattern, and supporting the chill fron, D, substantially as and for the purpose set forth.

  80,322.—OTTOMAN LOUNGE—George H. C. Williams Chi.

- 80,322.—Ottoman Lounge.—George H. C. Williams, Chi-
- 80,322.—OTTOMAN LOUNGE.—George H. C. Williams, Chicago, Ill.
  I claim the ottoman lonnge, consisting of the main body, A, extension section, A", hinged to the end board, J, and provided with foot piece. F, and head board, E, rod, I, hinges, 243, and receptacle, H, when combined, constructed, arranged, and operating as herein shown and described.
  80,323.—CAR WHEEL.—William Wilmington, Toledo, Ohio.
  I claim the within-described cast iron car wheel, the said wheel heing produced by the use of two quanties of iron, and by substantially the process herein described.

- 80,324.—CANE AND TELESCOPE COMBINED.—George W. Wilson (assignor to John W. Little), Concord, N. H.
  I claim a cane with the telescope and opera glass, either or both, combined and adjusted substantially as described.
  80,325.—PENDANTS FOR SHEETS ON FORE-AND-AFT SAILS.—Nelson Woodbury (assignor to William Woodbury), Chelsea, Mass.
  I claim the combination of a spring, a pendant, and an eye through which the pendant passes, or their equivalents, all substantially as and for the purpose specified.
  80,324.—CAR OPENER.—F. S. Wyman Chica
- John Carlette, T. B. Wyman, Unicago, III.
  I claim the knife, C, rigidly attached to the adjustable plate, F, of a "cular can opener," and constructed to operate substantially as herein forth.
- forth. 80,327.—CENTERING LATHE.—Benjamin F. Bee, Harwich, Mass, assignor to the N. w York Tap and Die Company, N. w York city. I claim the two sides, H, provided respectively with the jaws, ML, in connection with the top plate, K, connected with the treadle, N, and the springs, dd', all arranged and applied to a centering lathe to operate in the manner substantially as and for the purpose set forth. 80,328.—INDICATOR FOR STEAM GENERATOR.—Robert Berryman, Philadelphia, Pa
- co., 22.—INDICATOR FOR STEAM GENERATOR.—ROBERT BETTY-man, Philadelphia, Pa
  I cleim the arrangement of the vessel, A. spindle, C, guide, g, valve, d, adhastable foat, F, whistle, B, lever, E weight, D safety valve, G, weighted lever, H, and whistle, I, as herein described, for the purpose specified.

  80,329.—COFFEE ROASTER.—Friedrich Max Bode, Vienna, Austria, assignor to C. B. Mueller, Hanover, Prussia
  I claim, 1st, Arranging the mouth of the shell, A, so that it projects through the jacket, B, as described, so that the contents of the shell may be easily inspected during operation, without requiring the removal of the apparatus from the stove.
- 2d, A revolving coffee roasterwhich turns on an inclined axis, substantially sherein shown and described.
- as herein shown and described.

  3d, The cover, D, of the revolving spherical vessel, A. when so arranged that it serves at once as a cover and as a clutch for connecting the said vessel with its crank faudle, as specified.

  4th, The construction and combination with each other of the spherical vessel, A, having the cylindrical neck, a, and the pin, b, of the jacket, B, with its flange, c, and the handle, C, over, D, and handle, E, all made and operating substantially as herein shown and described.

  80,330.—Window Scrubber.—B. F. Burgess, Jr., Boston,
- Mass.
  I claim a window wiper, constructed substantially as described, that is, by
  the combination of the supporting frame, B, and the rotating frame, C, arranged, substantially as shown, whereby the cloth is attached to the frame,
  and operated as and for the purposes described.
- and operated as and for the purposes described.

  80,331.—TRACK CLEARER FOR RAILROADS.—John Callaghan (assignor to bimselfand Joh Newton), St. Louis, Mo.

  I claim the track clearer, constructed as described, consisting of the curved bituricated beam, A. hearing upon its arms, a a', the scraper, G, with roller, J, and the brush. S, said beam extending upward in a forward direction, through the sloth ed plate, D, having the spring catch, I, and pivoted between the plates, H, see much to the under side of the track trame, B, all arranged and operating as described, for the purpose specified.

  80,332.—LOCK FOR SECURING RAILROAD SWITCHES.—John V. Chamberlain, Cincinnati, assignor to himself. S. D. Patterson, and John
- Chamberlain, Cincinnati, assigner to himself, S. D. Patterson, and John V. Chamberlain, Delbi, Ohio.

  I claim a switch-lock, composed of the bolt, D, slide, E, and the cam F, all arranged within a suitable case, A, attached to the switch-har, B, substantially as herein shown and described.
- arranged within a suitable case, A, attached to the switchinar, B, suscentially as herein shown and described.

  80,333.—OIL CUP.—Sylvester Charnley, Portage City. Wis.
  I claim the valve, D, having a triangular stem (as shown in fig. 3), the regulating screw E, valve, F, spring, g, and cage, B, when arranged in an oil-cup, substantially as described, for the purpose set forth.

  80,334.—Table Cutlery.—William Clayton, Bristol, Conn.

  1 claim securing the bolster of a knifeorfork to the handle and shank of the same by means of a metal block, D, which is cast through a slot, b, and around the bolster and scales, or handle, substantially as herein shown and described.
- 80.335.—Cheese Vat.—Paschal Colvin, Pecatonica, Ill.
- 80,335.—CHEESE VAT.—Paschal Colvin, Pecatonica, Ill.
  I claim, 1st, The cemi-circular cheese vat, composed of the shells, I and J, having abate bearings, t. t, immee, D, and spout, Q, substantially as shown and described, and for the purpose set forth.
  2d, The cutting-frame B, composed of longitudinal and transverse cutters, as a, and b b b, respectively, or their equivalent, and the shaft, A, and crank, B, in combination with a semi-circular cheese vat, substantially as shown and described, and for the purpose set forth.
  3d, The stirring-frame, constructed, as described, of the curved paddles, N, attached to the arms, P, curved in opposite directions upon the shaft, A, the onter ends of one series of paddles being inclined in a reverse direction to the burnose specified.
  4th, The circulating pipe, i i, substantially as shown and described, in combination with the semi-circular cheese vat andiurnace, D, all substantially as shown and described, and for the purpose set forth.
  5th, The shaft, r, bearing eccentric wheels, q q, in combination with a cheese vat, substantially as shown and described, and for the purpose set forth.
- forth. 80,336.—Сьотнез Wringer.—Philipp Cramer, Providence
- R. I.

  I claim, 1st, the combina ion of the frames, A D, rollers, B C E and F, and rode, c c with each other, all made and operating substantially as herein shown and described, for the purpose specified.

  2d. The clastic scraper, j, to clear the surface of the roller, O, when arranged in combination with a wringer, made as set forth.

  80,337.—LEVEL.—William P. Cutter, Chelsea, Mass.

  I claim the level constructed as described, of the two fianged rings, B, inserted in the stock, A, from opposite sides, and each provided, near their inner ends, with cross-bars, C, whose points of intersection turnish bearings for the pivots of theweighted angular pendulum, D, as herein shown and described.
- 80,338.—Sawing Machine,—Henry A, Dauiels, Thomaston. Conn. I claim hanging the shaft, C, by which the saw-frame, E, is oscillated in the slide, B, to which said saw-frame is pivoted, as herein described, for the purnose specified.
- pose specified.

  80,339.—DUMPING CAR.—Phylander Daniels, Jackson, Mich.

  1 claim a car dumping bed, provided with means for accusting it, substantially as and for the purpose described.

  80,340.—Apparatus for Clarifying Sugar Juice.—Wil-
- 80,340.—APPARATUS FOR ULARIFYING SUMAR SUICE.

  liam Dill, Houma, La
  I claim, ist, The combination with the curb, A, of the rotating strainer, G,
  when constructed, substantially as and for the purpose described.
  2d, The combination with the strainer, G, of the vanes, K, substantially as
  and for the purpose described.
  3d, The rotary strainer, G, constructed and arranged substantially as and
  for the purpose described.
  4th, The combination of the strainer, F, with the curb, A, and rotary
  strainer, G, substantially as and for the purpose described.
  80,341.—PAIL EAR.—George E. Eastman, Washington Mills,
  N Y.

- N. Y. I claim a pail-ear, constructed substantially as an for the purposees herein shown and described.
- 80.342.-Evaporator.-N. Evinger, TerreHaute, Ind. I claim, 1st, the furnace, A, constructed in three parts, a1, a2, a3, an ranged substantially ashereinshown and described, and for the purpos
- ranged substantiarly asheremsnown and described, and for the purpose sectorth.

  2d. The combination of the three pans or boilers, C. H. and I. constructed as described, with each other and with the parts al, a2, a3, of the furnace, A, substantially as herein shown and described, and for the purpose set forth.

  3d, The straining-device, constructed as described, of the sliding gate, G, carrying the semi-conical strainer, F, enclosed by the semi-tubular cover, all arranged in relation with the fau cet, D, and side of the pan, C, as herein
- all arranged in relation with the fau cet, D, and side of the pair, C, as arrain described, for the purpose specified.

  4th, The combination of the frame or rack, J, with the paris a2 and a3 of the furnace, A, and with the pans, H I, substantially as herein shown and described, and for the purposes set forth.

  5th. The hand-hook, K, contructed substantially as herein shown and described, when used in connection with the pans, H I, as and for the purpose set forth.
- 80,343.—CLASP FOR HOOP SKIRT.—Louis Fellheimer, New

- passage of the purpose specified.

  80,344.—DEVICE FOR HOLDING TOOLS AGAINST GRIND

  STONES.—Edwin Fernald, Turner, Me.

  I claim the vertically adjustable jointed bar, H, bearing the wheel, j, in combination with the guide, G, and norizontally-traveling shoe, F, as herein described, for the purpose specified.

- 80,345.—Sewing Machine.—Stephen French, Orange, Mass. I claim the arrangement of the cams, H, i, j, upon shaft, E; the pivoted lever, G, having wings, b; the shuttle-slide, I, spring, k, feed, I, having lug, I, an i adjustable stop, m, all constructed to operate II the manner and for the purposes substantially as herein set forth and shown, for the purposes specified. 80,346.—Scaffolding.—J. W. Glover, William B. Orner,
- and B. E. Orner, Martinsville, Ind.
  We daim the employment of ratcheshores, saddles, and levers, as a device or devices for raising the frames of houses, all substantially as shown
- Notes the devices of taking to the state of the state of the devices of the devices of the devices of the state of the state of the gratum cylinder, Ba, provided with crank-handle, B, and plunger, a, having rod, c, and the plunger, C, G, with Its bandle, D, all constructed and arranged within the case, A, to operate as herein shown and described, for the purpose specified.

  80,348.—MACHINE FOR BENDING SHEET METAL.—Joseph M. Grove and Henry Hedrick. Anderson. Ind.

- 80,348.—Machine for Bending Sheet Metal.—Joseph M. Grove and Henry Hedrick, Anderson, Ind.

  We chim the combination, with the rollers of a bending machine, of the cam, is substantially as and for the purpose described.

  80,349.—Hand Punch —J. D. Higgins, Greenville, Conn.

  1 claim the detached tubular punch, G, in combination with the guide-box F, for ned upon the jaw, D, the slotted spring, H, and operating-jaw, C, all arranged and operating as described, for the purpose specified, 80,350.—Tanners' Hook.—James Hoffman, Belvidere, N. J. I claim, ist, pivoting a lever-hook, C, to the shank of a tanners' hook. D, substantially as herein shown and described, and for the purpose set forth.

  2d. The combination of the lever-hook, C, connecting rod, D, sliding ring, E, sliding rods, F, one or more sliding rings, G, and the colled spring, H, with each other and with the hook, B, and handle, A, substantially as herein shown and described, and for the purpose set forth.

  80,351.—BOLT CUTTER.—Henry Howe, Oneonta, N. Y.

  1 claim the combination of the slotted plate, B, cam, D, spring-catch, b, and projecting arm, c, all made and operating substantially as herein showu and described.

  80,352.—Paper Cap.—M. G. Imbach, and I. Weidenman
- 80,352.—Paper Cap.—M. G. Imbach, and I. Weidenman, Hatford, Conn.
  We claim, as a new article of manufacture, a paper cap, having its crown formed by cutting from a rectangular sheet of paper a series of gores, or triangles, leaving them united at their bases, and having their vertices united at a commo centre by means of the button, C, said crown being secured to
- 353.—OINTMEN'T FOR HORSES, CATTLE, ETC.—Richard

- 80,353.—OINTMENT FOR HORSES, CATTLE, ETC.—Richard Jonas, New York city.

  I claim an ointment composed of the above mentioned ingredients, in about the proportions named and for the purposes set torth.

  80,354.—MACHINE FOR FLATTENING AND BENDING CHAIN LINES.—Peter Kendrick, Treaton, N. J.

  I claim, 1st. The arrangement of the pungers, J J', rolls, MM', guides, K K' I I', cross beads, H H', connecting rods, O G, harts, C D, eccentrics, P F, crank, N, dies, Q S, and guide, R, with relation to the bed, A, substantially as herein shown and described, for the purposes specified.

  2d, The combination of the groved dies, Q S, arranged as described, with the bending mechabism, all substantially as set forth.

  80,355.—NURSERY CUP.—J. F. Leslie and Edwin A. Tibbetts, Wodurn, Mass.
- 80,355.—NURSERT COL.—6. T. Economic Mass.

  betts, Woburn, Mass.

  We claim the nursery cup, when its cover, B, is provided with the stays, E, and ring, whereby tits adapted to be reversed to support said cup and form a heater, as herein shown and described.

  80,356.—Subsoil Attachment for Plows.—J. C. Leonard
- and J. J. Gooar, Clinton, Mo.
  We claim the subsoil plow, A. constructed substantially as described, in combination with the sood or other plow, C, all as set forth.

  80,357.—Branch Cement Pipe.—Enoch Lockhart and Frank Roberts, Loubsville, Ky, and Henry Knight Brooklyn, N. Y.
  We claim, 1st, The cores, Dand C, the collars, G and J, the core pin, E, with the key, F, arranged substantially as described, for the purposes set forth.
- d, The key, F, in combination with the cores, C D, as berein described, for purpose specified. -Mold for Building-Blocks,-Thomas J. Lowry.
- Conneautville, Pa.

  I claim the construction and arrangement of the improved mold for building blocks, operated as herein described.

  80,359.—WATER WHEEL.—La Fayette Lyons, Bennington, Vt. I claim a water wheel having a cyhndrical or conical core, A, provided with the curved buckers, C, and arranged in a curb, D, provided with the supply and discharge passages, K G and H, substantially as and for the purpose described.
- pose described. 80,360.—Carriage Clip.—Thomas McCreary (assignor to
- himself, Geo. M. Sullivau, and John McCreary), Matteawan, N. Y. Iclaim, ist, A carriage clip in which the pivot, this swiveled in the shaft, and inserted from above, into the slotted ears of the clip, and fastened to the latter by means of a spring catch, E., or its equivalent.

  2d. The strap. D, when rigidly secured to the pivot pln, C, of a carriage clip, for holding the spring catch, E, and for preventing the pin from turning, as set forth.
- i, A carriage thill coupling consisting of the clip. A, shaft, B, pin C, strap, and catch, E, all made and operating substantially as herein shown and
- described.

  80,361.—SMUT MACHINE.—E.McLane, Young America, Ill.

  1 claim the passage, f, in the blast spout, H, provided with the valve, g, when arranged in relation with the spout, G, and fan, B, to operate substantian
- when arranged in relation with the spour, G, and Ial, B, to operate substantially as and for the purpose set forth.

  80,362.—CORN SHELLER.—Amzi C. Mills, Oaktown, Ind.

  I claim an improved corn sheller formed by the combination of the curved slats or knives with the frame or conductor, A, substantially as herein shown and described and for the purpose set forth.

  80,363.—Machine for Dressing Slate Frames.—Wm. F.
- Mosser, Allentown, Pa. 1 claim, 1st, The slidling frames, Y. which carry the cutter shafts, M', and latters, W. in combination with the revolving table, L, when constructed not operating substantially as herein shown and described and for the purpose st furth.
- and operating substantially as herein shown and described and for the purpose set forth.

  2d. The arms, S', operated by the cam, U', through the arm, V', to spread the cutter frames, Y, as herein described, for the purpose specified.

  3d. Holding the cutters, up to their work by means of the har, F', acting upon the strap, A', that drives them, arranged substantially as herein described and shown.

  4th, The presser or holder, Q, constructed and operating substantially as herein shown and described, in combination with the revolving table, L, as and for the purpose set forth.
- and for the purpose sectorth.

  5th. The angular piwoted stop, I', in combination with the revolving table, I', as and for the purpose sectorth.

  5th. The angular piwoted stop, I', in combination with the angular pusher, J', substantially as described, for the purpose specified.

  6th. The pushers, E and J', operated as described, adapted to move the slats to the cutters, W and Q', respectively, substantially as herein shown and described.

  80 364.—FENCE POST DRIVER.—Isaac J. Parker, Buffalo

- and described.

  80,364.—FENCE POST DRIVER.—Isaac J. Parker, Buffalo Grove lowa.

  I claim, 1st, The hammer shaft, D. in combination with the sliding bar, F, and the windlass, I, the former being connected to the latter by a rope, H, bassing over a pulley, a, and all arranged to operate in the manner substantially as and for the purpose set forth.

  2d. The fixed and admiss able rollers, J. J., in combination with the hammer shait, D, and the bar, F, substantially as and for the purpose specified.

  80,365.—AUGER HANDLE.—II. D. Pennoyer, Athens, N. Y.

  I claim theauger top constructed as described, of the parts, a b, secured together by the bolt, c, and provided respectively with the concentrie spring pawls, h, and ratchet teeth, it, the upper part, a, baying the loop, I, and the spring catch, B, and the lower part recessed to receive the shank of the auger, all arranged and operatine as described, for the purpose specifiel.

  80,315.—BUOTS AND SHOES.—William Smith, Whitehall, Bridesburg, Pa

  I claim, ist, The application to the soles of boots and shoes of strips, B, of wood, metal, or other suitable material, having bevided sides, and fitted in grooves in the sole, the grooves having dovetail sides, to correspond to the sides of the strips.

  2d, Cutring transversely the inner surfaces of said strips, B, in order to render them yielding or flexible, substantially as shown and described.

  80,367.—Extension Ladder constructed as described, of the three sections, ABC, sliding in grooves, one within the other, and provided with the adjusting screws, EF, and the adjustable braces, G, composed of the rods, gir ggs, all arranged as described, for the purpose specified.

  80,368.—Cement for Roofing, etc.—Harrison S. Snow and Edgar J. Hunkins, Macon, M.).

- 8.6.5., an arrangeous described, for the purpose specifies.
  90.368.—Cement for Roofing, etc.—Harrison S. Snow and Edgar J. Hunkins, Macon, Mo. We claim a fire and water proof cement composed of the ingredients and nothe manner and proportions substantially as herein described.
- 80,369.—Door Lock.—John G. Spathlef, Sandusky, Ohio. 1 claim the sliding plates. F. when arranged on the inner side of the covering plate of a lock case, and when forced together by means of springs, e.e., substantially as described, so as to close the key hole, as set forth.

  80,370.—LIQUID MEASURE.—Ward Sprague, Sandy Creek, N. Y.
- I claim the liquid measure constructed with the walls, a a, and fluid chamer, c, all constructed as and for the purpose described. 80,371.—RUFFLING ATTACHMENT FOR SEWING MACHINES.-
- A. Steward. Plano, Ill.
  I claim in combination with the presser-foot and the ruffling attachment the guide, A, having the lips, tongue, and friction points substantially as described.
- 80,372.—Grain Register.--Barnett Taylor, Forestville, Minn. 80,372.—Grain Register.—Barnett Taylor, Forestville, Minn. I claim, ist, the hinged top, B, or its equivalent, in combination with a shaft D, pointer, a, ratchet wheel, Q, and sinding upright, M, and one or more pawls, all substantially as shown and described and for the purpose set forth. 2d. The hinged top, B, or its equivalent, in combination with the sliding upright, M, with one or inore pawls or their equivalent, the screw shaft, D, and nint, E, all substantially as and for the purposes hown and described. 3d, The closed oox having a hingen top, B, the viorating of which actuates the interior registering machine of the said box, by means of a sliding upright, M, all substantially as shown and described and for the purpose of resistering machine of the said box, by means of a sliding upright and fratchet wheel, all substantially as shown and described, in combination with the yielding top, B, all as and for the purpose set forth. 5th, The graduated circle, U, and scale, b, substantially as shown and described, in combination with the pointers, a and c, screw shaft, D, and nut, E, all as and for the purpose set forth. 6th, Sliding upright, M, spring, J, and binged top, B, of a closed box containing any registering mechanism, all substantially as shown and described and for the purpose set forth.

- and for the purpose set forth.
  7th, The screw shaft, D, nut, E, pointer, c, scale, b, pointer, a, on the said

- sbaft, and graduated circle, U. all constructed and operated substantially a shown and described and for the purpose set forth.

  80,373.—BACK-BAND HOOK.—Charles Wack (assignor to himself Charles Miller and A. Steinbach Evansville. Ind.

  1 claim, as a new article of manufacture, the back hand hook, constructed as described, of the plate, B, cast or formed with the hook, A, whose upper portion is bent in at e f, said plate b-ing adspited for riveting to the strap, C, as herein shown and described for the purpose specified.

  80,374.—HAT HOLDER.—Zera Walens, Bloomington, Ill.

  I claim, 1st, A rod, B b, havirg any suitable lock-joint, substantially as described, in combination with the hat rest, A a, all as and for the purpose set forth.

  2d, The lock mechanism, substantially as described, in combination with a rod, B b, and rest, A a, all as and for the purpose set forth.

  80,375.—RIBBON ROLL CLIP,—Marcus Brown Westhead, Manchester, England.

- Manchester, England.

  I claim the flanged clip or slide substantially as herein set forth, for the purpose of putting up tape or ribbon rolls.

  80,376.—GIB AND SELF-OILER.—Cyrus B. White, Port Rich-
- out, of the sides of the compartment, d, substantially as described and set
- 31, The combination of the roller, D, wick, E, and the cup, C, divided into two compartments by the partition plate, e, substantially as and for the purpose specified.

  80,377.—CARRIAGE.—Job Whitchead, A mes Station, Iowa.
  I claim the combination of the springs, I, shafts, H, ratchets, L, pawls, M, pulleys, K, with the cross-piece, F, and framing, and with the pullers, O, and axles, B, when constructed and arranged substantially as and for the purpose described.

  80,378.—Cwayon, Holder,—Rufus Wright, New York city.
- 80.378.—CRAYON HOLDER.—Rufus Wright, New York city,
- pose described.

  80,878.—CHAYON HOLDER.—Rufus Wright, New York city, assignor to himself and I. B. Chadwick, New Haven. Conn.

  I claim as a new article of manufacture a crayon holder having its split ends made angular, and provided with screw threads at opposite angles for the reception of the screw mas, C., as herein shown and described.

  80,879.—Door MAT.—William Young, Jr. (assignor to himself and Charles Lowell), Franklin, Mass.

  I claim as an improved article of manufacture, a door mat. having two uncut wiping surfaces, composed of the rope, C, wound spirally around the longitudinal wooden bars, A, and rounded bars, D, secured to the top and bottom of said hars. A, all claimped together by the transverse rods and mus as herein shown and described.

  80,380.—CAR WREEL.—Ansou Atwood, New York city.

  I claim, 1st, The construction of the exterior part of the car wheel with the ordinary chilled rim, or the rim with a part of the plate attached, having the laterior edge thereof with introcessions and projections formed by excentre curves, as and for the purpose before described.

  2d, The exterior and interior parts of the wheel in combination, constructed and fitted to one another in either of the wheel in combination, constructed and in parts of the wheel in combination, constructed and interior parts of the wheel in combination, constructed and in parts of the wheel in the woper stogether, and keeping them in place while in use, as and for the purpose before described.

  80,380.—CLEANING COTTON WASTE.—Haydn M. Baker, Harlem, N. Y.

- lem, N. Y. leading the use of coal-tar benzole or coal-tar naphtha, or mixtures of same, and their equivalents, for removing oils from conton watte, (or other the used forsimilar purposes) and also the separation and recovery of the oils and solvents by distillation.
- 80,382.—MACHINE FOR MAKING WOODEN TRAYS.—Henry
- oils and solvents by distillation.

  80,382.—MACHINE FOR MAKING WOODEN TRAYS.—Henry
  Barber, Greenfield, Mass.

  1 claim 1st, The carriage, J. mounted upon the free rotating shaft, G, in combination with the guide-blates, H.H. and guide pin, I, or the equivalent of these parts. to rive the said carriage a combined rotary and rectilinear movement, substantially as and for the purpose described.

  2d. In combination with the carriage, J. constructed and operated substantially as described, the concentric saws, C. fixed upon a single vibrating head block. D, and placed, the one directly under the other, so that the bolt may nove to the saws in a curved line, without causing the saws to cramp each other.

  3d. In combination with the free shaft, G, guide plates, H.H., and guide pin I, or their equivalents, the wheel, I., provided with the Pins, e.e., and the lever, M, and let off, substantially as and or the purpose described.

  80,383.—HOREE RAKE.—William H. Barton, Olney, III.

  1 claim, 1st In combination with the min sled or vehicle, A, and revolving rake, E, the supplemental hinged runners, D.D, employed and operating in the manner and for the purpose stortin.

  2d. T neswinging frame, F f. G, arranged and employed substantially as and for the purpose described.

  3d. The combination with the supplemental runners, D, and rake, E, of the straps, I, pulleys, H. H. rockshaft, F, and treadle, f, substantially as and for the purpose specified.

  4th, The presser bar, K, provided with the spring, L, and treadle, k', and arranged and employed, in combination with the rake, E, and swinging frame, G, substantially as and combination with the rake, E, and swinging frame, G, substantially as and combination of traction spurs with the tread in the tracelle of the tread of the purpose section.

- co, so the Driving Wheel for Locumuityes.—John Birken-head, Canton, Mass.

  I claim the arrangement and combination of traction spurs with the tread and the fange of the driving wheel of a locomotive engine, to he used on the rails of a railway, the whole being substantially as and for the purpose as specified.
- 80,385.—Operating Shuttle-Box in Loom.—Jas. Brierly
- Worcester, assignor to himself and James Brierly, Millbury, Mass.

  I claim, 1st. The combination of slides, O, controlled by pattern mechanism, with a carrier, as and/or the purposes set forth.

  2d. The combleation of the liters, slides, O O, and carrier, H, for operating the boxes, substantially as described.

  3d The combination of a shding spring-catch, L, pendant, R, and notched boxrod, K, substantially as set forth.

  4th The combination of the cast off lever, P, having a pendant, R, with the tripping arm, S, and its operative mechanism substantially as described.

  5th, The combination of the cast off and raising appararus, consisting of the litters, slides, carrier, and their connections, as described, whereby I can change the boxes at will, on one or both ends of the loom substantially as set forth.
- as set forth. 80,386.—Drill Holder.—Charles Burleigh, Fitchburg, Mass. I claim a drill holding chuck, constructed with a transverse ping crossing the socket hole for the drill butt, having a portion of the transverse ping, corresponding with the perimeter of the socket hole, removed and having a screw and nut, or equivalent means, for giving endwise movement to the ping, all substantially as and for the purpose set forth.

  80,387.—Drilling-Machine Carriage.—Charles Burleigh,
- Ping, all substantially as and for the purpose set forth.

  80,387.—Drilling-Machine Carriage.—Charles Burleigh, Fitching, Mass.

  I claim the arrangement of one or of a series of horizontal drill machine bars or holders, substantially as described, so that any of the bars or holders and especially the lower one or the lower series may be elevated to allow the passage of the carriage to the breast when the track rails only are cleared from debris, and to allow passage of a car through the carriage and under the lower bar or bars up to the breast.

  Also, a drill machine carriage, so constructed that a car may run up through the carriage, snotsantially as set forth.

  80,388.—Treck.—Oscar F. Burton, Jersey City, N. J.

  I claim, ist The combination herein described for cramping the truck of the bar, k, levers, i, and vertical shafts, h the latter being arranged to freely turn in the truck frame, or opposite sides or ends thereof, and carrying lateral projections, forming axless or shafts to the wheels of the truck, substantially as shown and de cribed.

  2d, The combination, with adiacent or separate trucks, of an extension perch, formed of metallic tubes fitted together in a telescopic manner essentially as and for the purpose or purposes berein set forth.

  80,389.—WHIP SOCKET.—Charles Christian, Sheboygan, Wis. I claim a whip holder, constructed with the socket, B, in connection with the springs, D, substantially as and for the purpose described.

  80,389.—Bund Ferry Bridge.—James A. Clark, Mount Pleasant, lowa, assignor tohimself, Cbarles B. Clark, and Henry R. Clark, Buffalo, N.Y.

  I claim the pivoted arm, A, provided with roller, b, in combination with the india-rubber spring, d, and stop attachment, E, the whole constructed, arranged, and operating as shown and described.

  80,391.—Ferry Bridge.—James A. Clark, New York city.

  I claim the nethod of lowering the guard on the bridge, by means of the chain, f, that draws it and fastens the boat to the bridge, substantially as and for the purpose set forth.

- 80,392.—BLIND SLAT TENONING MACHINE.—Mil'n W. Clark, 80,392.—BLIND SHAI I ENGRANGE AND SHAPE AND SH
- mounted extentionally insafedusks, together with mechanism for revolving the cutter heads in the manner described, so that the said cutter heads shall not only have a rotary movement upon the rown axes, but shall also revolve around the axes of their supporting disks, as and for the purposes set forth.

  2., The combination with the disks, G', and shafts, G, imparting motion to the eccentric cutter heads, and running loosely in said disks, of the bearing support, 2, and annular disk-supports, F, substantially as and for the purposes set forth.

  3d, The combination, with the disks, G', and cutter head shafts, of the adjustable quill bearings for supporting said shafts, substantially as and for the purposes set fortb.

  4th, The combination, with one of the annular disk supports, F, and gear, E', of clasp or guide piece, b, mounted loosely upon the hub of said gear, substantially as and for the purposes set forth.

  5th, The combination with one of the gears, J, and the shipper or slide, of a hooked spring, constructed and operating in connection with the said gear and shipper in the manner set forth.

- 80,393.—RAILROAD CAR STOVE.—M. J.Clark, New Richmond,
- Ohio. 1 claim, 1st, Arsilroad car stove, composed of upper and lower hases, J and C. connected by fenders, F and B. substantially as described.
  2d, The cap, A, and fenders, B, combined and arranged as berein shown and described.
- door and pan-lock, consisting of a bolt and screw-key, substantialdescribed. The fender door, 1, and screw fastening, E, as specified. 80,394.—Stubble Cutter.—Isaiah B. Conklin, Baltimore,
- Md.
  I claim, 1st. Curved or inclined entting swords, T, arranged and applied to the frame of a carriage, and adapted for cutting corn stubble, substantially
- 80,395.—BEE-HIVE.—Samuel Cuplin, Iowa Falls, Iowa.
  I claim, 1st. Providing the hive with an adjustable inclined bottom, C, when constructed as and for the purpose set forth.
  2d, The dish or pan, d, furnished with the float, H, 1 n combination with the

unnel-shaped device, f, when arranged in consection with a bee-hive, substantially as and for the purpose set forth.

3d. The employment of one or more sliding frames. j, constructed substantially as described

3d, The employment of the order and strong tally as described 80,396.—STEAM HEATER.—John Davis, Wilkesbarre, Pa. I claim the combination and arrangement of the pipes, B and D, embedded in the cast iron sides of the fire box, the pipes, C, forming the grate, the connecting pipes, B, and C, feed pipe, A, boiler, I, and communicating pipes, A, and E, all connected and operating substantially as described, for the purnoses specified.

poses specified.

80,397.—WASH BOILER.—D. A. Danforth, (assignor to himselfand Isaac Ayers) Eikhart, Ind.

I claim the inner boiler, B, having its bottom slotted, and provided with fange. E, arranged to fit within and operate in connection with the boiler, A, substantially as and for the purpose set forth.

90,398.—APPARATUS FOR COLLECTING AND SEPARATING

MINERAL AND METALLICSUESTANCES.—William T. Duvall (assignor to the Duvall Patent Pump, Dredging, and Gold-washing Company), Georgetown, D.C.

I claim, 1st. The arrangement of the separating chambers, m. in such maner that the flow is caused to pass through the body of the mercury therein, and is spread or deflected by the perforated plate, r.essentially as shown and described.

rioea. The application of artificial currents of air or water for the purpose of ng or removing solid matter, in the manner, and by means substantially

raising or removing solid matter, in the manner, and of matter a sherein setforth.

3d, A suction pipe of a pump, so applied as to be capable of vertical, oscillating, vibrating, or rolary motion, substantially as and for the purposes

specified.

4th, The elongated foot piece of the suction pipe, substantially as represented in figs. 6 and 7, for operation as set forth.

5th, The wheel, B, constructed with one or more curved vanes, a, attached to the disk, e, when said vanes are made tapering from the periphery of the disk and vanishing or nearly so at its axis, as described.

6th, The projection of the vanes, a, in semi-circular or other form, beyond the periphery of the disk, substantially as and for the purpose specified.

80,39.—Low WATER INDICATOR.—Theodore G. Eiswald, Providence, R.,

I claim the atrangement of the horizontal pipe, B, vertical whistle and tushleping tube, C, plug valve, E, chambered screw cap, G, and the valve, B, with its stem, I, and handle K, as herein shown and described.

80,400.—Low WATER INDICATOR.—Theodore G. Eiswald, Providence, R.

with its stem, I, and handle M. 100 CATOR.—Theodole C. Providence, R. I. Claim the arrangement of the horizontal pipes, A, vertical pipes, C, branch pipe, M, stopcock, m, cap, c, having fusible plugs, a a, valve, v, having the loose pace plate, I, vertical stem, T, and hand wheel, W, substantially as shown and described.

SEALING FRUIT CANS.—T. M. Fer-

guson, Rainsborough, Ohio.

I claim theories blocks, D, thomb screws, E, and frame, A, when used for groducing a vacuum in fruit cans, as and for the purpose described.

80,402. APPARATUS FOR ELECTRO PLATING.—William Gaies (assignor to himself and George W, Homan', New Haven, Conn. I clam, as a new article of ma ufacture, the instrument, consisting of the zinc socket, with its sponge or brush, C, and connecting wire. D, with or without the holder, E, so as to operate in the manner substantially as specified.

specified. 80,403—GOVERNOR.—J E. Gillespie (assignor to himself and

Googre S. Liccoin & Co.). Hartford, Conn.
I claim, 1st, The clutch, F, with its arm. F" in combination with the lever,
G, and stand, D, substantially as specified for the purpose set forth.
2d, The shaft, I, and sliding portion of clutch. E, in combination with the
arm of the clutch, F, and lever, G, substantially as set forth.
3d, Shaft, J, with its crank. 2, in combination with the fixed gear or toothed
circle, C", disk, H, lever, G, and revolving fulcrum, F", substantially as
specified, for the purpose set forth.
4th. The screw fack, R, and the worm pinion, in combination with the
gear, S, and shield disk, H a, substantially as specified, for the purpose set
forth.

80,404.—Gas Machine.—David M. Graham, Evansville, Ind.

80,404.—Gas Machine.—David M. Graham, Evansville, Ind. I claim, ist, the construction of the rarefier, I, with an air tight condenser, I, in combination with the air pipe, M, substantially in the manner and for the purpose herein described.

20. The construction of the cylinder, A, with the concaverim, B, substantially as and for the purpose described.

30. The rarefler, I, condenser, L, air pipes, M, N, and T, gas pipe, O, acrometer cylinder, E, with valve, a, and pulleys, I, U, Cylinder, C, with nowable cap, D, oil chamber cylinder, F, with opening, G, provided with inarges, and gasometer cylinder, K, all combined and operating in the oryllneer, A, substantially in the manner and for the purpose as described.

80,405.—GANG PLOW.—Smith Graham, Fennimore, Wis. I claim the hingedframed beams, g, g', bar, i, lever, k, link, j, and metal strip, or bar, s, all combined and arranged substantially as and for the purpose described.

80,405.—DRILL HOLDER —William Hell I. North Adams

80,406.—Drill Holder.—William Hall, Jr., North Adams

Mass.

I claim the drill holder, made substantially as described, not only with a longitudinal shank bore, and with a slot extending about the length of the bore, but with the faces of the slot parallel with the surfaces of the holder on which the heads and nu sof the holts, cc. bear.

80.407.—Hose Coupling.—L. W. Hanson and Samuel Bush, Springfield, Mass.
We craim, ist, the combination and arrangement of the two parts. A and B having pin, F, a nchotch, H, on one side, and cam lock, K, and notch, L. on the other, substantially as shown and described.

2d. In combination with the above, the rubber packing, C, arranged in and held by the groove, M, substantially as shown.

80.408.—Soap Cup.—Joseph G. Harrison, New York city, I claim a new article of manufacture, coulsting of the cast metal sung cup.

I claim a new article of manufacture consisting of the cast metal song cup, A, constructed with a hollow curved side, B, a hook or hooks, D, and ribs, d, substantially as shown and described.

80.409.—WATER METER.—Abraham Heaton (assignor to him-

col, 409.—WATER METER.—A Draham neaton (assignor to himself and Bradbuy & Goodsell), Bridgeport, Conc.

I claim the arrangement of the two pistons or series of pistons, each piston or series of pistons upon its independent rot, and operating in its respective cylinders and the said cylinders connected by passages in the manner described, and provided with inlet and outlet connections so that the pistons operate in their respective cylinders, substantially in the manner derein set

80,410.—Slate Frame.—Robert Heneage (assignor to Breed & Co.), Buffalo, N. Y.

I claim the rubber mats, D. D., provided with catches, b. b., and nipples, c. c. n combination with the rounding corners, e. e., of the slate frame, having the lotches, a. a, the whole arranged as described, and operating in the manner and for the purpose specified.

andfor the purpose specthed. 80,411.—Railroad Car Ventilator.—M. T. Hitchcock 80,411.—RAILROAD UAR VENTILATOR.—W. 1. Intended, Springfield, Mass.
Claim, 1st, The T-shaped exhaust tube, having inclined ends, and valves, a b, attached thereto, for the purpose of adjusting the action of the ventilator to the direction of the motion of the car, and enclosed within the shell, which is reliefly attached to the car, in such a manner as to form an air passage between the exhaust tube and shell, the whole constructed, arranged and operating substantially as sat forth, 2d, An exh austing ventilator, rigidly attached to the bottom of a railway car, and so arranged as to exhaust equally well, whether said car moves in one direction or the other, substantially as set forth, and to discharge the air from the ear directly beneath the same as specified.

80,412.—HAY SPREADER.—De Lancy Kennedy, New York

city.

I cliaim, 1st, An adjustable journal box, B, in combination with the fork of a hay tedder, whereby the said fork may be set to operate nearer to or further from the ground, substantially as herein described.

2d, The buttons, D D, in combination with the extended and bent portions of the tines, C C, substantially as and for the purpose herein set forth.

80,413.—Hydrocarbon Burner.—Samuel P. Legg, Spring-

field, Mass.

I claim, 1st, A fire box for burning liquid fuelin as "cam boiler, having the bottom plate, A, elevated above the bottom of the holler, for the purpose specified, and air flues, F, closed by valves, and so arranged that the draft is entirely au polied through the air flues, in combination with the reservor. R, and supply pipe, P, having a contracted nozzle, o', and so inserted in the firebox as to prevent esting the liquid fuel until it leaves the pipe, P, the whole arranged and operating substantially as described.

2d, The combination and arrangement of perforated conductor, I, perforated funnel, J, and the pipe, P, having a contracted opening, o', applied to the fire box of a steam boiler, substantially as described.

80,414.—Opening and Closing Shutters.—Carl Lehnert

cu, 414.—UPENING AND CLOSING SHUTTERS.—Uarl Lehnert (assignor to Joseph M. Weilhar 1), Boston, Mass.

I claim, 1st, The combination o 11 cam surface and catch or projection, c, on the cam segment, I, with the spurs, bb, on the segment gear, H, for holding the blind or shutter open or closed, substantially as described and specified.

2d, The wedge, e, and adjusting devices, in combination with the segments H 1 and cam surfaces thereon, substantially as described and specified.

80,415.—CARD RACK.—Mitchel Lepp, Albany, N. Y.

1 claim the steadying slat, a, in combination with the holding slat, b, and the rack frame, cc and e, constructed substantially as set forth, for the purpose herein described.

80,416.—COGKING STOVE.—I W LOWING Devices Objective Combines of the construction of the combines of the co

pose herein described.

80,416.— COOKING STOVE.—J. W. Lowrey, Dayton, Obio.

I claim the inner chamber. A, to be inserted into the stove as shown, together with its regulating valves and slide, M, N, and O, and as justable end pleces, P and Q, substantially as and for the purposes herein specified and described.

80,417.—RAILROAD RAIL.—Robert M. Marchant, Wellington,

80,417.—RAILROAD RAIL.—Robert M. Marchant, Wellington, New Zealand.
I claim, in the construction of railways, the arrangement of the rails, A, with a continuous substructure, Bor H, either with or without the wooden foundation. D. or iron plates, I, the whole secured or bolted together, in the manner and for the purpose herein shown and described.

80.418. PUMP.—Coorge Marshall, Brooklyn, N. Y. Iciaim the combination of the water ways, F.F., on one and the same side of the pump, suction pipe, C. valves, E.G. and valvechambers, H.J., with their lids or doors, L.L., arranged substantually as described, loose clamping bars M.M. and fixed inclines or wedges, 17. sesentially as specified.

80,419.—CAR BRAKE.—S. McCambridge, Philadelphia, Pa.
1 claim, it, The combination of the shafts, 6. M. and N. coz wheels, Q. and Q. cams, R.R. friction wheels, S.S., bett, P. and Dulleys, O. and O. with the shaft, E. of the engine, and the wheel, Y. and skinening strap, U., when the several parts are constructed, arranged, and the particular rediction to each other substantially in the manner and for the parpose set front.

2d. The combination and arrangement of the lever, W. connecting rod, n. tightening strap, U., and wheel, V., with the chain shaft, G. for holding the

substantially in the manner described.

3d. The combination and arrangement of the spring seated slide, J, with the last truck, E and chain, F, substantially as and for the purpose set forth.

80,420.—CAR BRAKE.—Samuel McCambridge and Edward

80,420.—CAR BRAKE.—Samuel McCambridge and Edward G, Martin, Philadelphia, Pa. We claim the arrangement of the continuous chain, C, and its described connecting rods, when the same is fastened at one end to the front ear or truck, and operates, in cambination with a fixed sheave or pulley, on the rear truck, through a rod or chain connecting directly with the actualing devices on the engine, all as and for the purpose set forth.

80,421.—PROPELLER.—Christian Gotthold Meinhardt, Altoona, assignor to himself and Benjamin F. Bell, Antistown. Pa I claim, 1st, The propellers, consisting of the ring, J, rim, F, valve, H, bars, ii 12 on the piston rod, r, guide braces, g gl g2, substantially as and for the purposes et forth.

iii 12 on the piston rod, r, guidebraces, g g1 g2, substantially as and for the purposes set for th.
2d, Reversing the steamboat, by means of overturning the valve, H, in the manner and substantially as described.
80,422.—ATTACHING BELLS TO THEIR YOKES.—George R. Meneely, West Troy, N. Y.
I claim securing the center bolt, which bolds the clapper to the cap plate, which turns with the bell and supports it in various positions in the yoke by means of a toothed or indented washer attached to the center bolt, in combination with an adjustable clutch attached to the cap plate, substantially as herein set forts.
80,423.—Snow GATE.—A. D. Murray, Henderson, Pa.
1 claim ist. The friction rollers, H H', substantially as and for the purpose

I claim 1st, The friction rollers, H H', substantially as and for the purpose described.

2d. The combination and arrangement of the lever, K, bar, I, diagonal brace, D, with boles, m, and pin, n, substantially as and for the purpose set forth.

3.1. The construction and arrangement of the battens, C' and E, substantially in the manner and for the purpose specified.

4th. The short stake, P, with notch, p, for holding the gate when closed.

80.424.--Fastening for Shirt Collars.--Charles E. Palmou, 424.—r ASTENING FOR SHIRT COLLARS.—Charles D. Failler, Newburyport, Mass.
I claim the pivoted button, B, in combination with the shank, a, fixed disk, A, thereon, and detachable head. C, all constructed and arranged as shown and described.
80,425.—VELOCIPEDE.—Harvey A. Reynolds, Brooklyn, N.Y.

I claim the lever, m, with the rods, n n', connected respectively, above and below the fulcrum, in combination with the wheels, d, and axle, e, to which the other ends of the rods, n n', are connected on opposite sides of the king bolt, i, so as to steer the velocipede by the movement of one lever, as set

80,426.—CAR Coupling.—Levi Scott and Paul Trimmer, Burgettstown, Pa.

Burgettstown,

forth.

80,427.—SULKY PLOW.—Benjamin Slusser, Sidney, Ohio.

1 claim, 1st. The combination of the lever, L, having the shoulder, n, with
the crank, c. having the projection, m, and supporting the standard to which
the plow is attached, when the several parts are connected and arranged so
as to operate together, substantially in the manner and for the purpose
specified.

as to operate together, substantially in the basists.

2d. The combination of the crank, c. standards, g. g., seat, g., rod, H, and bing ed post, I, substantially as and for the purpose described.

3d. Snpporting the plow upon two standards, E.F. bent in the form and attached to the rearside of the plow, in the manner described.

80,428 — MORTISING CHISEL.—Josiah M. Smith, Warren, N. J. Antedated July 18,1868.

1 claim a tenoning chisel, constructed to operate in the manner as herein set forth.

80,429.—Fire Kindler.—Verlin G. Tansey (assignor to himself and James W. Simpson), Indianapolis, Ind.
I claim the burner, A. eniarged tube, e. filled with the packing, E. and fursished with the deflecting plate, i, and supplied with oil from the fountain, B, by the tube, g, substantially as shown, in combination with the air ducts, DM, through which air is supplied to the burner, when the draft opening is closed by the plate, C, all arranged and operating substantially as set forth.

80,430,—BUTTON BOOT.—E. P. Taylor, New Bedford, Mass. claim a button boot, in which the whole upper and leg front, a, and flap, e made in onepiece, crimped to the proper form, substantially as shown

and described.

80,431.—STEAM GENERATOR.—William R. Taylor and James F. Slot, Brooklyn, E. D., N. Y.
We claim making avertical tubular steam boiler, substantially as described and with the tubes, water spaces, sream drum, and super-heater, arranged therein in relation to each other as set forth.

80,432.—Scissors and Shears.—Augustus Thayer, Albany,

N.Y. Claim, 1st, The clipping norches, o o' o'', or, cc, or their equivalents, placed forwarl or back of the pivot, p, or in the outer edges of the blades to one side, in combination with the blades, A A', and the saidnot he so placed as to give a stiding cut, as and for the purpose set forth and described.

2d, The holding notches, ee, in one or more sets, placed in the heels of the blades, as and for the purpose set form and described. blades, as and for the purposes set form and described. 80,423.—Constructing Back Pads to Harness.—John

Umbach, Kankake, Ill.

I claim the use and application of the mol ing or cup in the filling and stitching the cushion or under part of the back pad to harness.

80.434.—REIN HOLDER.—J. W. Wadsworth, Durham, Conn. I claim the construction and arrangement of the springs, B C, upon the bar A, and dash board, so as to be a part of the same, and operate in the manner 80,435.-

Manufacturing Company). Bristol, Coon.
I claim, a sanewarticle of manufacture, an axle washer, made of raw hide inbisantially as describe.
80,436.—THERMOSTAT.—Charles A. Wilson, Cincinnati, O.

I claim the adjusting and stop valve screw, H. located on the opposite side of the ther mostat plates to the valve seat, E, as described, and for the purpose specified.

80,437.—Smoke-Stack for Locomotives.—Jearum Atkins,

80,437.—SMOKE-STACK FOR LOCOMOTIVES.—Jearum Atkins, Washington, D. C.
I claim, lest the combination of the annular exhaust nozzle, or itsequivalent, and the annular smoke-nassake substautially as berein described.

2d. The arrangement of the annular smoke-passage, and the annular deflecting-plate, P, substantially as set forth.

3d, In combination with the annular passage, G, and annual deflector, P, the central receptacle, H, substantially as and for the purposes set forth.

80,438.—METHOD OF KEMOVING CARBON FROM GAS-RETORTS.

John A. Bassett and Oliver C. Smith, Salem, Mass.

We claim, 1st, The apparatus shown and set Jorth, having the various parts constructed and operating substantially as specined, and used for the purpose described.

pose described.

2d, Combining an air-forcing apparatus, with a retort lid, having an opening for the parfose of admitting air to the interior of the retort.

3d, The combination of the pipe, H, and retort-lid, G, with the air-forcing apparatus, F, when usedfor the purpose specified.

4ds, The combination of the first big steam tube, E, with the main, C, and blower, F, for the purpose set forth.

80,439.—FARM GATE.—George W. Blackwell, Lebanon, Ind.

I claim the action of the gate in opening and shutting the wheels, B B, and supported between the upright posts, P to the wheels, C, and also on the latch, as shown in fig. 5, the catch being sustained by K, and forced into the catch on post by the spring, y.

80,440.—Egg-BEATER.—Lewis T. Blake, New Haven, Conn.

I claim the combination of the case or vessel, A A with the beating blade B, and the double crank, cd, when the whole is constructed, arranged, and fitted for use substantially as herein described and set forth. -Sheet-Metal Lining for Bath-Tubs,-Charles Albert Bressing, Philadelphia, Pa.

I claim a bath-tub lining, made of sheets of hard metal, such as copper or zinc, consisting of the parts, B C C, when the same are constructed and arranged as described.

80,442.—Horse Hay-Fork.—George W. Bowlsby, Monroe,

Mich.
I claim, 1st, The projecting posts, 1, secured at an angle to the tines, a a, at their pivot, c, in combination therewith, and with the toggle-lever, e, substantially as and for the purpose described.
2d, The combination and arrangement of the swinging tines, a, enlarged as described at c, bail, 4, toggle, e, clevis, j, extended boits, k, guards, m, supporting bar, h, and projecting posts, l, substantially as described for the purpose specified,

80,443.-Machine for Cutting and Assorting Broom-CORN.—Miles D. Bradley, Ballston Spa, N.Y.
1 claim, 1st, The perpendicular drum, A, the different-sized rollers, e1 e2 e3, etc., and belts, n1 n2 n3, etc., whether the said belts be flat or round, all contructed and operating together substantially as shown and described, and or the purpose set forth.

structed and operating together substantially as shown and described, and for the purpose set forth.

2d, The cutters, v v v, shaft, E, pinion, J, and toothed rim, I, whether the said rim be toothed externally or internally, and drum, A, all constructed and operating together substantially as shown and described, and for the purpose set forth.

3d, The chutes, K K K, etc. in combination

and operating together substantially as snown and described, and for the purpose set forth.

3d. The chutes, K.K., ct.., in combination with the drum, A, rollers, et e2.c3, etc., and belts, nl n2 n3, etc., all substantially as and for the purpose shown and described.

4th. The adjustable step-bearing, h, in combination with the drum, A, rollers, et e2 e3, etc., belts, nl n2 n3, etc., all substantially as shown and described, and for the purpose set forth.

5th. The bevel-gearing r u, and puller, G, substantially as shown and described, in combination with the drum, A, and its belts and rollers, all as and forthe purpose set forth.

6th, Adjustable step-bearing, k, in combination with the shaft, E, cutterwheel, D, drum, A, and its rollers and belts, all substantially as shown and described, and for the purpose set forto.

80,444.—Printing-Press.—William Braidwood, N. Y. city.

I Claim, 1st. The levers, c. hour independent of the platen, operated as described, in combination with the rods, f.g., crank bins, d, and roller-carriage, B, substantially as and for the purpose set forth.

2d, The slyts, l, in the connection-rods, 1, provided with bearings, m, springs, n, and a fusting screws, o, to operate in combination with the platen D, of a printing-press, in the manner and for the purpose described.

3d, The spring-arm, in combination with the bell crank lever, u, v, and card drop, p', substantially as and for the purpose set forth.

80,445.—ELEVATOR.—Philipp Brand, Springfield, Ill.
I claim this combination of the jointed framework, B, platform. C, pipes, D, and Steadying-arms, F, as herein set forth and for the purposes described.

chain, F', tight, when the machine, H, is thrown out of gear with the engine, 80,446.— LAMP FOR DESTROYING INSECTS IN TREES.— F.

CO.,440.— LAMP FOR DESTROYING INSECTS IN TREES.— F. Markham Briggs, Livonia, Mich.

I claim the construction of a lamp, A. provided with any suitable pan, O and arranged to be heated by means of wick-tubes. D, substantially operating as and for the purposes herein described.

80,447.—WATER.ELEVATOR.—G. H. Bristol, Romeo, Ill.

I claim the combination of the lever, L. its pawl, d, wheel, F, spool, E, shaft, D, sail, J, and the bucket and curb, when all arc constructed, arranged, and used as specified.

ed, and used as specified.

80,448.—Type-Machine.—David Bruce, Brooklyn, N. Y.

1 claim, 1st, 1n combination with the right-angled lever, E, the plug, D
substantially as described, and for the purposes hereinbefore set forth.

2d, The sliding adjusting plate, H, and tapis, M, in combination with the
right-angled lever, E, substantially as described, and for the purpose hereinbefore set forth.

before set forth. 3d. In combination with the said sliding adjusting plate, the difurcated cam, Q, substantially as hereinbefore described, and for the purposes set

orth, The combination of the movable jaw, N, with the inclined gutter, B substantially as hereinbefore described, and for the purposes set forth, 5th, The combination of the compound spring, S, with the inclined gutter, B, for the purposes hereinbefore set forth, and made and operating substantially as described.

tally as described.

6th, The combination of the spring or trip-hammer, X, with the inclined gutter and right-angled lever, substantially as hereinbefore described.

80 449.—Spring-Punch.—Marti 1 V. Bryant, North Plains,

Mics.
I claim the squarc lug, G, when used in connection with the frame, A, bi-urcations, B B, punch, C, pin, D, spring, E, and die, F, substantially as and or the purpose specified.

furcations, B.B., punch, C., pun, D., spring, D., survey, D., S. G., Cabell, of the purpose specified.

80,450.—Track Clearer for Railroad.—S. G. Cabell, Quincy, Ill., assignor to himself and Peter T. Abell, Atchison, Kas.

I claim the arrangement of the steam box, A, and the pipe, B, with the two way cocks, c, and rod, L. constructed substantially as, and for the purpose herein set forth.

80,451.—Willard W. Chase, Springfield, assignor pose hereinset forth. 80,451.—Ash Bin.—Willard W. Chase, Springfield, assignor

to himself and Solon W. Abbott, Sanapce, N. H.
Iclaim a mouth or receiving aperture for ash-bins, and other purposes, as an article of manufacture, constructed and operating substantially as above set forth.

80.452.—Telegraph Instrument.—Paul Antoine Marie Chauvassaignes and Jacques Paul Lambrigot, Paris, France.
We claim, 1st, The combination of the devices herein described for effecting the notation and automatic transmission of telegraphic messages, the purposes set forth.
2d, An insulating-ink, composed of the ingredients herein named, taken in the proportions substantially as specified.
3d, A Geomposable liquid, made of the ingredients herein-named, taken in the proportions substantially as specified.
80,453.—Brush-Holder.—Charles B. Clark. Buffalo. N. Y. Iclaim connecting the thumb-nut, E. with the movable jaw, H, by means

80,453.—BRUSH-HOLDER.—Charles B. Clark. Buffalo. N. Y. I claim connecting the thumb-nut, E. with the morvable jaw, H, by means of the flange, G, and slot, K, together with the mortise, L, in the screw-shank F, for the purpose specified.

80,454.—BUCKLE.—John G. Clifton, Northfield, Ind.

I claim the arrangement of the loops of the frame of the buckle at one end, and at the center thereof, between the bars, b b, and d e, in combination with the tongues, i j, acting upon the opposite sides of the frame in the manner and for the purpose specified.

80,455.—FIMEPLACE.—William B. Coates, Philadelphia, Pa. I claim, 1st. The combination of the vibrating-rim, H, with fis flauge, K, and the bed-plate, J, with its flange, L, and apertures, M, the shaker, F, with its arm, G, and knob, as herein described, and for the purposes set forth.

2d. The construction of the hody of the stove, when combined with the cylinder, E, shoulder, Y, and ribbed top, B, as herein described.

3d. In combination with the foregoing, the siffer, O, with funnel-shaped top, N, grate, P, spoult, q, and receptacle, R, when constructed and operating as the rein described, and for the purpose set forth.

80,456.—Nutmeg-Grater.—J. L. Coles, and D. H. Coles,

"3d, in combination with the foregoing, the Silier, O, what induces support to D, N, grate, P, sport, q, and receptacle, R, when constructed and operating a herein described, and for the purpose set forth.

80,456.—Nutmeg-Grater.—J. L. Coles, and D. H. Coles,

80,405.—NUTMEG-GRATER.—J. L. Coles, and D. H. Coles, New York city.
We claim, 1st. A box. A, containing a revolving carrier, D, having a series of chambers, with spring-followers, which press the articles to be grated against the stationary grating-surface, E, which is combined with a receiver F all asshown and described.
2d, The combination, with the cylindrical box, A, of a series of carriers, at angles to each other, so as to leave supplementary chambers, n, snostantially as and for the purpose described.

as and for the purpose described.

80,457. — LUBRICATING DEVICE. — Frank Colligon, Buffalo, N. Y.

1 caim the combination of the transparent indicator, E, with the lubricating cup, D, substantially as and for the purpose; described. 107 cup, D. Substantially as and for the purposes described. 80,458.—Potatoe-Bug Cleaner.—Joseph Corbeil, Lind,

Wis.

I claim the machine for cleaning vines or vegetables of bugs or insects, consisting of a snitable frame mounted on wheels, and having the central receptacle, C, and the two side revolving fans or beaters, D, all constructed and arranged to operate substantially as described.

80,459.—AGEING AND PURIFYING SPIRITS.—James M. Crafts, Boston, Mass.

OU. 409.—AGEING AND FURIFYING SPIRITS.—Jailies M. Craits, Boston, Mass.

I claim the forcing of whiskey or a distilled liquor through air, or a gas charged with ozone or antozone, or the forcing of air or gas charged with ozone or antozone through whiskey or a distilled liquor, or the agitating toget her of whiskey or other distilled liquor, and air of gas charged with ozone or antozone.

Also, in connection therewith, the employment as explained, of oak shav-ses, or other coloring equivalentormaterial, from which an extract is lo be obtained.

Also, the treating of air by electricity, so as to ozonize such air, and subsequently passing such air in contact with or through whiskey, or an air aid hollow in the same being as and for the purpose or purposes substantially as

specified.

As) for the improvement of the liquor, confining it in a close vessel, and subjecting it while therein to the action of the heat; and Also, the combination of the same, and the application of ozone or antozone to the liquor, by means substantially as specified.

80,460.—MANUFACTURE OF FILES AND RASPS.—Frederick C. Curie, Lancaster, Pa.

I claim, ist, 'onverting files and rasps, either cast, or made from wrought or east malleable iron, into steel, by the process substantially as herein described.

scribed. 2d, The new article of manufacture, namely, files and rasps, made by the process substantially as herein described.

80,461.—Steam Safety-Valve.—Owen R. Davis, Lewiston, Pa. I claim, 1st, The passage, i, communicating with the chamber, 0, in combination with the piston head, D, piston-rod, E, and valve, F, whereby to allow the steam to force said valve downward, and relieve the belier of any undue pressure of steam that may accumulate in it, substantially as herein set forth.

forth. 2d, The arrangement of the piston-head, D, piston-rod, B, valve, F, and case or frame. G, whereby to prevent tampering with the valve when once arranged for the pre-sure required, substantially as herein set forth.

3d, The arrangement of the chamber, O, passage, 1, valve-rod, a, valve, a, vent, k, and weight, C, substantially as set forth.

80,452.—Corset —Thomas B. DeForest, Birmingham, Conn.

I claim, 1st. A corset, formed from a felted material, substantially as herein described.

2d. In combination with a corset, constructed as above, the body-stay or bind. A, substantially as set forth.

3d. The arrangement of the strys, B B, upon the surface of the corset, either maide or outside, without the formation of pockets in the body of the corset, substantially as set forth.

80,463.—Electro-Magnetic Engine.—Alexander John B.

80,463.—ELECTRO-MAGNETIC ENGINE.—Alexander John B. De Morat, Philadelphia, Pa. I claim the combining and arranging of a series of magnets, with magnets or armatures, revolving, or other inotion, which are made to pass from a sphere of equilibrium into a sphere of attraction, thereby obtaining a motive power by the motion produced, resulting from the power of attraction, when one or more permanent or electro-magnets areplaced angularlyagainst curves or plain surfaces of any metal possessing magnetic properties, and in this motion at the same time to bring back the system into a neutral limit or sphere of equilibrium, and in that state to arrest and carry it heyond the limits of attraction (without the necessity of breaking circuit), then afterward released for a subsequent action, as herein set forth and described, or any other, su bstantially the same, which will produce these intended effects. 80,464.—METHOD OF FORMING LAMP TUBES.—T. B. Doolittle

(assgnor to Bridgeport Brass Company), Bridgeport, Conn.
I claim shaping or transforming the stock by means of wedging-mandrels orced longitudinally, in opposite directions, into the tube, to spread it laterally, and shape it, substantially as described.

80,465.—PACKING FOR CAR-AXLES AND BOXES.—Samuel R. Dummer, New York city.
I claim, 1st, The V-shaped lining, G, bearing against the grooved pack ing, C, and supporting the partiy-yielding and non-yielding encircling line J K, substantially as herein represented and described.
2d, The combination of the grooved sectional packing, CD E. the V-shaped lining, G, the encircling chain, J, and its yielding connection, K, substantially as and for the purpose described. 80.466.—FRUIT FRAME.—S. F. Emerson, Seville, Ohio.

I claim, ist, The covering or bag, F, and tube, I, in combination with the adjustable arms, E, substantially as and for the purpose set forth.

2d, The stundard, A head, C, in combination with the arms, D E, dogs, G and cords, E, substantially as and for the purpose set forth.

80,467,-Machine for Turning Irregular Forms,-Harrison Filnt, and George P. Smith, Danbury, Conn.
We claim, 1st, the swinging arm, K. carrying the cutter and pattern guide,
rranged relatively to the recio ocating carriage, B, carrying the spindles,
C', on which the pattern and the block to be turned are secured, as de-

scribed.

2d. The link, w, and set screw, x, for securing the nattern-gnide, L, to the arm, K, and for adjustment purposes, when operating substantially as described, for the purpose specified. 80,468.— HOP-POLE CLEANER.—Henry Forncrook, Water-

town, Wis. I claim a hop-pole cleaner, rosser, and trimmer, constructed in the manner and for the purpose substantially as herein specified. 80,469. — Adjustable Filter for Faucet. — Henry G.

Fuhrmann, Brooklyn, E. D., N. Y.

1 claim a straining anachment to faucets, consisting of an elastic tube, A. and conical spout, B, containing a strainer, C, as a new article of manufacture,

80,470.—Brick Machine.—R. M. Gano, and R. S. Miller,

Pittsburg, Pa. We claim the combination of the follower, D d, lever, I, connected to the ck shait, n and the levers, u and L, cannected by the rod, w, with the ver. H, and luxs, y, constructed and arranged to operate substantially as the terminal property of the terminal property.

and for the purpose set forth.

30,471.—LUBRICATING COMPOUND.—E. F. Gerdom, and C. W. Schindler, Albany, N.Y.

We claim all brighting compound, made of the ingredients above specified, and mixed together in about the proportion and substantially in the bander setterth.

FRUIT-JAR.—Thomas Gibson, Rochester, N. Y. I claim the cover. C, with its groove, b, and the detachable clamps. B, in combination with the flange, a, and packing-ring, c, all acting conjointly, as here in shown, and for the purpose described.

80,473.—HANGING EAVES TROUGHS—II. M. Gilbert, and F.

Elberson, Ada, Ohlo, we claim the combination of the fixed bracket. B, with the adjustable lamp, C, and brace, D, when arranged and operating substantially as de-

80,474.—Valve.—Adam Good, Jr., and Simon Strouse, Titusville, Pa.

We claim the valve, D., provided with inclined or stoping recesses, i., in the combination with sleeve, E., seat. C. and chambers, A. A., all arranged to

80,475.—Boring and Drilling-Machine.—John Goodin,

SO, 475.—BORING AND DRILLING-MACHINE.—John Goodin, Centralia, Ill.

I claim the arrangement of the corrugated cylinder, H, inclined toothed wheel, K, rack-bar, E, cog-wheel, O, and movable frame, F, with the standard, B, all constructed to operate as set forth.

80, 476.—DAMPER.—William Hailes (assignor to J. F. Rathbone & Company), Alhany, N. Y.

I claim an inclined gnard, so applied to theorifices of a sliding draft apparatus, when located at or near the bottom of a fire-chamber of a stoye, as to prevent the escape of ashes, etc., therefrom, substantially as described.

80, 477—HAND NALL-DRIVER FOR ROOFS AND SLOGS—Ed-

ne escape of ashes, etc., theretrom, substantially as described. -HAND NAIL-DRIVER FOR BOOTS AND SHOES.—Ed-

90,4(1.—FIAND NAID LAND WITH HELD BY AND STANDARD BY AND STREET BY AND STREET, COMMENCE. And H, SUDSIANTAILY AS AND SPIKES.—John S. 10,378.—MACHINE FOR MAKING BOLTS AND SPIKES.—John S. 1701 Dwitching Pa.

I claim the grrangement of the tube, A. the feed-tube, B, and plunger, C, and H, suowantally as and for the purpose described.

80,378.—MACHINE FOR MAKING BOLTS AND SPIRES.—John S. Hall, Putsburg, Pa, Iclaim, ist, The combination of the heading ram and its lever with the griping dies, gage, and with the cam, O, so that the ram shall have attained great momentum before it reaches the bar, boll, or blank in the dies, and thus form the head, substantially as described.

2d. The unobstructed space under or below the dies and feeding point, so that when the griping ram recease, after heading or upsetting of the end of a long bar or bon, sad bar or bolt may drop out of the dies, and thence be drawn out of the machine, substantially as described.

80,479.—Hakvester.—James Harris, Janesville, Wis.

I claim, ist, The arrangement of the shaft, c, operated by the hand lever, M, and having thereon the crank, d, with the rod, e, crank, f, shaft, g, and caster wheel, L, substantially as and for the purpose described.

2d, The combination and arrangement of the shaft, g, with the part, i, and brake, r P, either with or without the clutch, h, whereby the vertical vibration caused by the tortion of the rod is prevented, substantially as described.

3d, The combination and arrangement of the rod, g, part, i, and arm, i, the last two forming the caster arm of the grain wheel, L, when the part, i, is attached directly to the rod, g, and is made the fulcrun upon which the caster arm turns, as well as the moving lever, by means of which the cutter bar is raised or lowered, substantially as described.

4th, The combination and arrangement of the lever, M, shaft, c, cranks, d and b', rods, b and e, crank, f, swall, g, chitch, n, part, i, and brake, r p, substantially as and for the purpose set forth.

80,480.—WATCH.—Andrew J. Harrison, Rock county, Wis., section to bimself. W. W. Dexter. William M. Underhill, and Alonzo K.

stantially as and for the purpose set forth. 80,480.—WATCH.—Andrew J. Harrison, Rock county, Wis.

Assign to himself, W.W. Dexter, William M. Underhill, and Alonzo K. Cutts, and said Underhill assignor to Samuel C. Burnhaus, Jr. Antedated Ja nuary 28, 1868.

Ja mary 28, 1868.
It daim a bano or hoop, cutopen or divided at one side, so that it may be sprung open and applied around or Partially around the works or mechanism of a warch, between me upper and lower plates, substantially as described, ether with or without a covering of felt.

80,481.—Machine for Crozing and Howeling Barrels.

80,481.—MACHINE FOR CROZING AND HOWELING BARRELS. Edward Holmes and Britain Holmes, Buffalo, N. Y. We claim the combination of the cutter bead, H, supported to the swinging frame, I, with the rest, J, supported by theswinging frame, K, oscillagen upon a coimmon axie with the cutter frame, when said frames, K and 1, are provided with a locking mechanism by which the cutter head may be held at a definite clista, ee from the rest, and therebymadeto follow the curvature of the cask, substantially in the manner and for the purpose set forth.

80,482.—Miachine for Leveling the Staves in Barrels. Edward Holmes and Britain Holmes, Buffalo, N. Y. We claim the combination and arrangement of the head block, A, movable driver, B, and its operating series, D in D2, sour wheels, E is E2, and orving piplon, F, or their equivalents, operating substantially as beroin described.

80,483.—Machine for Jointing Staves.—Edward Holmes and Britain Holmes, Buffalo, N. Y.

and Britain Holmes, Buffalo, N. Y.
We claim, 1st The flexible hinged ribs k', in combination with the stationry ribs, k, constructed, arranged and operating forthepurpose and substanally as described.

ary ribs, k, constructed, arranged and operating set substantially as set forth, 2d, The eveners or feed arms, L, for the purpése substantially as set forth. 3d, The combination of the friction clutch, in, weighted lever, m, and pedal 0, arranged and operating in the manner substantially as described.

4th, The combination of the horizontal rack, T, pinion or segment, S', upon the rock shaft, S, and arm, R, arranged and operating for the purpose and substantially as described.

substantially as described.

80,484.—RANGE.—Elihu Hosford, Chicago, Ill.
Iclaim, ist, The application of a current of cool air to the under side of the grate, in the manner and for the purpose substantially as herein described.

2d, The oven, H. formed by enlarging the air space and providing suitable doors, in combination with the cylinder, A, combustion chamber, C, columns D, and hot air chamber, E, substantially as herein specified.

80,485.—RUBBER HEAD FOR PENCIL.—Samuel D. Hovey,

80,485.—KUBBER HEAD FOR A BROOKING BROOKING, N. Y.
I claim the pencil and pen head or tip, composed of the pencil mark eraser o, and the pen mark eraser, e, combined, substantially as described.
80,486.—(Jar COUPLING.—Henry R. Howe, Hartwick, N. Y. I claim the combination of the buffer, A. spring bars, O and K. bent bar. P. chain, R. tongue, N. block, E. pin, T., tpring, G. link, J. pln, J. set screws, and lever, L. when constructed and arranged substantially as described, as and for the purpose specified.

30,467.—KOTARY STEAM ENGINE.—Edwin W. Jackson, - ROTARY STEAM ENGINE. - Edwin W. Jackson

set fort...

80,489.—WAGON.—George W. Janvrin, Great Falls, N. H.

1 claim, 1st, A wagon, so constructed and arranged as that the body of the same may be raised and lowered at option, by means of screws attached to and forming part of the wagon, when the said screws are acted npon by attachment to the carrying wheels, substantially as esscribed.

2d, In combination with wagons, the wheel bevels, with their corresponding bevel wheels, when constructed and arranged substantially as snown and discribed.

ing beyel wheels, when constructed and arranged substantially as shown and diverbed.

3d, The device shown, of the shipper slides and their appended forks, in combination with the upper and lower beyel wheels. J and K. and the wheel beyels, in connection with the body of a wagon, when constructed substantially as described.

4th, The shipper bar clutches shown, when arranged in combination with the notched plates, the shipper slides, and the body of a wagon, substantially as above described.

5th, When in combination with wagons supported by more than two wheels the tip-cart arrangement of two or more cross bars, U Ux, and the plyoted bottom, when constructed substantially as described.

80,490.—11Ar.—Henry Kellogg, New Haven, Conn. Antedated July 14, 1868.

0.490.—1141:—1401.)
dated July 14, 1868.
I claim a hat formed from pulp, having incorporated within the material of he body or brim, during the formation thereof, a wire reed, or other stiffence trame or form, substantially as described.

The puris Lane Mont-

-HEAD BLOCK FOR SAW MILL.—Dennis Lane, Mont-

peller, Vt.
1 claim, ist. The grooved block, P, and the yielding grooved block, P2. ar langed in line in the same head-block, and successively acted upon by each ranged in line in the same head-bloes, and successively acted upon by each of the ineline bars, N, ari anged parallel in the reciprocuting frame, G, where by the head block is made to advance or recode, as desired, all constructed and operating substantially as described.

20, the sleeve, E, forming an eccentric bushing in the post W, for the pinion wheel, 12, by which the pinion wheel, B2, is thrown in or out organ with the bevel wheel, A2, for the purpose of advancing or retracting the earriage constructed and operating substantially as described.

80,492.— PORTABLE AND ADJUSTABLE STILL-WATER DAM.—
S. Lewis (assignor to W. H. Cammeyer). Brooklyn, N. Y.
I clean, ist, The construction and arrangement of a Portable and adjustable dam, in all ding or telescopic sections, in the manner and for the purpose here-

in described. 2d. The combination of the self-anchors, 3, with the dam, in the manner and for th

2d. The combination of the self-anchors, 3, with the dam, in the manner and for the purposes hereful described.

3d. The combination of the boats, supports, or floats, with the dam, as above described, and the arrangement of anchors to hold such boats in position, in the manner and for the purposes described.

4th, The combination and arrangement of windlasses, chains and boats with the dam, as above described, so that by the construction there if a series of drills may be operated within and inclosed by the dam, in the manner and for the purposes herein described.

80 49% — LAR CAUBLING — I A Manning Achtenials Object

-Car Coupling.-J. A. Manning, Ashtabula, Ohio, 80.493. I claim the hooked tall, D, as constructed, arranged, and operated in combination with buffer head, B, and link, C, for the purpose and in the manner as described.

as described.

80,494.—LAMP BURNER.—Jas. Minifie, Bultimore, Md.

I claim, let. The combination and arrangement of the two corrugated cones
CD, and tube, c, substantially as described.
2d. The corrugated cone, B. when provided with the above-described open-

ings along the summits of the ridges formed by the corrugations, substantially as and for the purpose herein set forth. 80,495. -- CARPET STRETCHER. -- William Minster, Washing

80,493.—UARTET STREAM.

ton, D. C.
I claim, 1st, The hinged jaws, E. E., pressed apart by means of a spring, and bound rogether by either a set seriew or the headed bolt, F, and its nm. G, for the purpose of 4rm by holding the carner, substantially as berein set forth.

2d, In a carpet stretcher, the jaws, E. E. constructed as described, and hinged to the box, B, which sides upon the ratchet bar, A, and operating as and for the purposes spocified.

W. CH. STANDS.—Richard Nelson, Cin-

CREEN FOR WASH STANDS.—Richard Nelson, Cin-

chnau, Ohio.

Ch

Jaim the annular cylinder, El, connected to the water ways, A and B', receiving the pistons, d d', in combination with the levers, s and t, switch, od stops, acting in the manner and for the parposes specified.

498.—Tag Fastening.—N. M. Phillips, New York city.

Antegated July 18, 1868
I claim the within-described hook, A B C, bend or loop, D, gnard, E, and shifting ring, H, connoined and arranged for joint operation relatively to the tag, O, and to the goods, M, substantially in the manner and for the purpose herein set forth. 80.499.—Reflector.—Louis Portner, Chicago, Ill.

80,499.—REFLECTOR.—LOUIS POTINET, ChiCago, III.
I claim the reflector A, construeted substantially as and in the manner herein set forth and for the purpose specified.
80,500.—PARALLIEL RULER.—D. J. Pratt, Albany, assignor to himself and Oliver Airey, Brockport, and Oliver Airey assignor to M. P. Cavart, Albany, N. Y.
I claim the construction of a parallel ruler by attaching to one of the limbs of a T-square ruler a gage plate for regulating the distance between the lines to be ruled, substantially in the manner set forth in the specification.
80,501.—WASHING MACHINE.—Phineas Prentiss, Chester, Mass.

Mass.

Mass.

I claim, in combination with the tub, with ribbed sides and dasher, with relaming the adjustable socket, arranged so that the handle may be used with comparative depression or elevation, substantially as shown.

80,502.—CULITVATOR.—Hiram Preston, Orifordville, Wis.

I claim, 1st, The adjustable V-shaped parts, C. in combination with the rocking shaft, B, when constructed and operated substantially as described and set forth.

2d, The lever, h, provided with the springs, i, and the arm, E, in conjunction with the parts, C, and ratchet, E, for the purpose of controlling the parts, C, substantially as described.

REFULT WILLIAM B. Ready Sacra.

-- Cultivator Teeth.- William B. Ready, Sacra-

or, 0.05.—0.0111VATOR TEETH.— WITHAIL B. Ready, Sacra-onfento, Cal. I claim, 1st, The groove, c, in stock, a, as a seat for an adjustable point for cultivator tooth.

a numerator roots.

21. The movable tongue, d, pierced with holes or slots, 1111, forming an adjustable point of a cuitivator tooth,

3d The combination of the grooved stock or support, a, with the adjustable tongue, d, for the purposes of a cultivator tooth, substantially as above described. -DEEP-WELL TUBE.-A. Rhoades and J. Adams, Pon-80,504.-

30,504.—DEEP WELL IUDE.—M. Ashoused that, Mich.
We claim the arrangement of the removable rod, D, baving a female screw
F, to connect to the screw upon the cleaner, E, at the low r portion of the slotted tube, B, all constructed to operate substantially as specified.
80,505.—RAILROAD-CAR HEATER, — John Kice, Blooming-

80,505.—RAILROAD-CAR HEATER, — John Mice, London Ind.
I claim the heating apparatus, A B, constructed and airanged as described, that is, having the chamber, B, air tubes, D, in smoke tubes, F, chambers, U C E E G G, and registers and discharge pipes, as shown, the whole being attached to and combined with a railroad car, and eperating substantially in the manner described, and for the purpose set torth.

80,506.—PROCESS FOR PURIFYING BUTTER.—L. S. Robbins, New Yorkeity.

New Yorkerty.
I claim the within-described processfor treating or purifying butter, substantially as herein described.
80,507.—(Hurn.—A. A. Ross, Horicon, N. Y.
I claim the churn dasher, E. when constructed as described, of wire and a

od, out. Citions.— It. two, sillow, it. it is as described, of wire and a fin ser-w, F, and provided with a serew in its upper end, in coublination with the dash wheel, C, constructed and operating substantially as and for the purpose herein set forth.

purpose herein set forth.

80,508.—KEROSENE-LAMP BOILER.—W. F. Rossman, Hudson, N. Y.
I claim, 1st, The combination and arrangement of reservoir or kettle, A, tube, a, boiler, C, and apertore, d, when employed in connection with a kerosene or fluid lamp, so notantially as and for the purposes described.

2d, The combination and arrangement of burner, B, and chimney, e, with boiler, C, when the latter is connected with the reservoir or kettle, A, substantially in the manner and for the purposes set forth.

80,509.—STEAM UUT-OFF VALVE.—Robert Sanderson, Cleveland, Ohio.

80,309.—STEAM OUT-OFF YALVE.—ROUGHS SARREISOR, CICVE-land, Onio.
I claim, 1st. The arrangement of the ports or openings, D, and notches, a, in the manner as and for the purpose set forth.
2d, The pivoted lever, Land roller, H', as arranged in combination with the roller, H, and valve. D', in the manner set forth.
3d, The cum, G', as arranged in relation to the lever, I, as specified.
80,510.—Bit for Bridle.—Peter Schoonmaker, New Britziak Cart.

I claim, as a ne warticle of manufacture, a japanned bridle or harness bit, aving its rings lined with metal, substantially as described for the purpose

specified.
80,511.—MACHINE FOR PRESSING AND GROOVING SEAMS IN
TIN WARE.—John Schumacher and Henry Upjohn, Ann Arbor, Mich.
We claim the gage, H, used in complination with the arm, C, as and for the 80,512. -Tile Machine.—John Shellaberger, Shane's Cross-

80,512.—TILE MACHINE.—John Shellaberger, Shane's Crossing, Onto.
I claim the relative arrangement of the shaft, B, sweeps, D D, bitman, F, lever, G, and plunger. H I, substantially as and for the purposes set forth.
80,513.—Horse Hay Fork.—H. L. Sheperd, Osborn, O. I claim, 1st, The combination of the side bar, A connecting bar, F, point, C, and lever, E when constructed and operating as and for the purposes here in set torth.
2d, The combination of the lever, E, with hook, b. and lever, G, with lng.c., when constructed and operating as and for the purposes here in set forth.

2d, The combination of the lever, E, with hook, b. and lever, G. with lug, c, when constructed and operating as and for the purposes herein set forth. 80,514.—HEAD BLOCK FOR SAW MILLS,—S. R. Smith (assignor to P. P. Lane and J. T. Bodley), Cincinnati, Ohio.

I claim, 1st, The ratchet wheel, G, containing both external and annular teeth, the pawls, M. M. and reciprocating bar, I, all constructed and operating substantially as and for the purpose described.

2d, The combination of the wheel, Q, wern wheel, m, and toothed segment P, to operate the dog, R, as herein described, for the purpose specified.

3d, The plates, O, when constructed and operating in themanner substantially as described.

80,515.—Boring Tool.—A. Steinbok, New York city I claim the adjustable frame, B, in combination with the anger,  $\beta$ , gimlets E E, and case,  $\alpha$ , provided with cutting edges, constructed and operating substantially as described.

-FEED-WATER HEATER.-Stephen Stucky, New Al-

50,010.—FEED WATER Land Bank, 100.

Local Bank, 1nd.

I claim the drum, A, with pipe, G, perforated as described, partitions, D F J I, forming chambers, C H E K, with the exterior pipes, as described, and with the boilers, L L, all constructed and arranged substantially as and for the purpose set forth, the purpose set forth, 80.517.—Submarine Exploring.—H. S. Thayer, Boston,

I claim the boat, A, provided with an opening, B, through its hull, and ver which opening is placed a darkened house, C, as and for the purpose 80,518.—Ventilating Boots and Shoes.—Edwin Thomas,

O. 310.— VENTILATING BOOTS AND SHOES.—LUWIN I normals, Philadelphia, Pa. I claim. 1st, Ventilating boots and shoes by grooving the inner soles with grooves that are narrow at the top and wide below, so as to allow the air to pass along the grooves, as herein described and for the purposes set for the pass along the grooves, as herein described and for the purposes set for the grooves of a dovetail shape, and a porous cover, for the purposes as specified.

80.519.—Lamp.—Wm. Totheroh, Reading, Pa. I claim, 1st. The norights, C.C., deflectors, D.D., ring, A, rings or bands, F. and G. and the arms, H. when combined and arranged as shown and described. 2d, The uprights, C C', deflectors, D D',ring, A, base, B, filling tube, E,wick tube, b, and the outwardly curving wing or guide, c, when comblined and ar-

gel(assignor to E. W.Lothrop) Chelsea, Mass. I call m, 1st, The Irregular-toothed cam or former, E, whether having an inemittent, rotary, rocking, or reciprocating movement, substantially as and or the nurposes described. 2d, The several parts of the described machine. 80,520.—Shiwing Machine for Buttonholes.—Kasimir Vo-

the durposes described; i, The several parts of the described mechanism, when constructed, comed and operating substantially in the manner and for the purposes de-

80,521.—Gang Plow.—Andrew Walker, Claremont, N. H. 1 claim, 1st. A stationary frame, with adjustable plow beams underneath, or the main frame at the rear end, and suspended by the rateoec, E. 2d, in combination, the gear wheel, C, gear circle, D, lever, F. and spring satch, b, in combination with the ratchet, E, for the purpose of adjusting that the plant of the turrow, and locking or suspen ding the plows at any given point, the whole arranged, constructed, and combined, and used in combination with and for the purpose set forth.

80,522.—SEED SOWERAND HARROW.—Andrew Walker, Clare-

OU. JOZZ. — SEED COWERAND HARROW.—Andrew Walker, Clarcmont, N. H.

I claim, 1st, The latchet lever, C. in combination with the harrow, G', the gear gage wheel, I, the lever, K., and circularizatchet, o, with the spring step, a in rever, K.

2d, The valves, b b' attached to the seed box, B, and gage rod, c, in combination with the fluted roller, d, the whole combined, arranged, and used as and for the purpose set forth.

20, 502 (Charty Royce, B. Warnock, and Ches Abbert O.)

80,523.—Grain Rake.—R. Warnock and Chas. Abbey, 2d, Ridgevill, Ohio.

Ridgevill, O

80,524.—STRAW CUTTER.—J. T. Watson and H. E. Robinson,

oscillating arm,  ${f D}$ , and spring,  ${f E}$ , substantially as arranged and described for the purpose set forth 80,525.—Stove for Railroad Car.—F. H. Whitman, Har-

rison, Mc. The plate, e, suspended on plates, b b', so as automatically to close the finnel aperture, substantially as herein set forth.

20, The self-closing grate or draft, substantially as and for the purposes berein set forth.

herein set forth.

80,526 — APPARATUS FOR CLEANING SEWERS.—C. Williams, New York city.

I claim, 1st, The toggle arms, 1 i, braces, j, j, and head, D. carrying the sheave g, combined and operating to hold the pulley, substantially as and for the nurnose described.

g, combined and operating to hold the pulley, substantially as and for the purpose described.

2d, The gnide piece, m, on the dog, D, to facilitate the introduction of the repe to the sheave, g, substantially as set forth.

3d, The folding scraper, c, fig.5, constructed and arranged for clearing pipe sewers, substantially as shown and described.

4th, The automatically folding leaves, e c. arranged in the bucket, C, constructed as shown and for the purpose set forth.

5th, The adjustable bail, e, in combination with the fixed bail, f, of the bucket, C, substantially as and for the purpose specified.

6th, The bucket, C, made with perforated sides, as and for the purposes set forth.

forth. The detachable guide frames, E, arranged upon the man holes of a sew-er, in combnation with the draft rope, Bx, substantially as and for the pur-poses described. 80,527.—CIGAR HOLDER.—Martin V. B. Young, New York

city.

Ci

I claim, ist, A frame of a settee with dovetail mortises and round or oval bosses, substantially in the manner and fir the purpose specified.

2), The combination of the slatis, B, having holes or countersmis, with the bosses, c, s described, on the frame, A, and wedge-shaped keys, substantially in the manner and for the purposes set forth.

#### REISSUES.

66,773.—Paint.—Dated July 16, 1867; reissue 3,051,—D. R.

66,773.—PAINT.—Dated July 16, 1867; reissue 3,051.—D. R. Averill, Newburg, Ohio.

1 claim a paint, composed of the ingredients herein named, and prepared and compounded substantially in the manner specified.

Also, a liquid paint, when prepared and mixed for use, in any color, in its manufacture, and put up in packages for sale, and which may no preserved in such condition, substantially as and for the purpose described.

63,486.—Saw.—Dated April 2, 1867; reissue 3,052.—Henry Diston (assignee of Charles Disson), Philadelphia, Pa.

1 claim, 1st, A detachable saw tooth in which is combined a circular base adapted to a circular recess in the blade with a projection at the rear adapted to a shoulder on the blade, all as set forth or the purpose specified.

2d Thelips, i, on the eage of the projection, d, of a saw tooth, or on the edge of a recess in the blade, in combination with a groove and recesses, m, in the projection or in the blade, in combination with a groove and recesses, m, in the projection of the substantially as specified.

71,311.—FOOT FOIL TUBS, BUCKETS, 18TC.—Dated Nov. 26,1867; reissue 3,638—J. W Kendall, Philadelphia, Pa.

I claim a movable adjustable foot for tubs, tuckets, barrels, etc., substantially for the purpose shown.

36,673.—STUMP EXTRACTOR.—Dated Oct. 14, 1862; reissue 3,634—S. M. Longley and E. J. Genet, New York, and S. B. Smith, and A.

15,882.—HARVESTER—L'ated Oct. 14, 1856; reissue 3.055.—
J. G. Perry, Kinsston, R. I., assignee by mesne assignments of C. W. Glover, Roxbury, Conn.
I claim, 1st, 80 constructing and operating the vibrating sickle-driving mechanism of a harvesting muchine that such mechanism shall work through the driving wheel of the machine.
2d. The combination of the cogs, e, on the driving wheel, the pinion f, upright shaft, C, and wheel, g, with the pinion, it, of the shaft, D, arranged substantially as and for the burpose specified.
3d. The combination, with the driving wheel, of the guide box, B, bar. F, oct, H, and lever, I, in such manner that the angle of presentation of the criters carried by the finger bar, E, may be adjusted, substantially as set forth.
37,535.—WATER ELEVATOR.—Dated Jan. 27, 1863; reissue 3,656—Division A.—W. B. Wadswortt, Cleveland, Ohio.

3.056.—Division A.—W. B. Wadsworth, Cleveland, Ohio.
I claim, ist, The toothed wheel, open and adapted to the chain, substantial-

I claim, ist, The toothed wheel, open and adapted to the chain, substantially as shown and described.

2.1. The said wheel, in combination with the chain c b b ffd d, substantially as shown and described.

3.1. The titler, g y, in combination with the flat chain, c b b ffd d, substantially as shown and described.

4th, The arrangement of the curved tilter, g y, and stops, h h, substantially as shown and paid described.

4th, the arrangement of the curved chiter, gy, and stops, n, substantially as shown and described.

37,535.—WATER ELEVATOR.—Dated Jan. 27, 1863; reissue 3.65.—UVATER ELEVATOR.—Dated Jan. 27, 1863; reissue 3.65.—UVATER ELEVATOR.—Dated April 4, the bent cross bar.c, cunning through to the outside of the hooks of the last link to b, and then angling as shown at ff, to hooks d d, inside of bends, b b, substantially as shown and described.

14,622.—CULINARY BOILER.—Dated April 8, 1856; reissue 3.858. Edward Whiteley, Boston, Mass.

1 claim the trup, 6, and cap, 1, or its equivalent, as arranged and applied to the vessel, B, whereby the latter may be employed either as a holler or steamer as set forth.

as set forth.

Also, in combination with the vessel, B, the interior vessel, H, perforate to admit the steam, when placed within the outer receptacle, B, and entirely surrounded or inclosed thereby, substantially as and for the purpose set

(0,468.—Horse Power.—Dated Nov. 12, 1867; reissuc 3,059. W.H. Wiley, Fredonia, N.Y. rigidly connected to the draft levers, F. by Itelime. 1841. The gear lible, D. rigidly connected to the draft levers, F. by the interposed epindles, E. or their equivalent, so as to form a gear frame for carrying the pinions and sour wheels, G. H., about the internal stationary courseling, C. and also a support for the draft levers upon the stationary courselled. 2d. The pinion spindles, E. when secured to the fable, D. at varying distances from the center thereof, so that different sizes of pinions to gear with eog ring C, and spur wheels to gear with pinion, I, may be used, as and for the purpose set forth.

# DESIGNS.

3,130.—Vise.—Quimby S. Backus, Winchendon, Mass. 3,131.—Ivory Tablet.—Wm. C. Comstock, Essex, Conn.

3,132.—Knitted Fabric.—Thomas Dolan, Philadelphia, Pa.

3,133.—SHIRT COLLAR.—R. S. Jennings, New York city.

3,134.—SHIRT CUFF.—R. S. Jennings, New York city.

3,135.-Toy.-R. S. Jennings, New York city.

3,136.—TWINE HOLDER.—E. M. Judd and R. L. Smith, Walcottville, Conn., assignors to Twiner, Seymour & Judds. 3,137.—Stove.—W. N. Moore, Neenah, Wis.

3,138.—Clock Case.—Nicholas Muller, New York city. 3,139.—TRADE MARK.—J. M. Mumford, South Reading, Mass.,

assignor to himself and Auguste F. Mason 3,140.—Drawer Pull.—John E. Parker, Meriden, Conn.

3,141.—Bottle.—M. B. Powell and C. W. Stutenroth, Na-

3,142.—Embossed Paper, etc.—E. F. Price and E. A. Mur-

# EXTENSION NOTICES.

a patent granted to him, the 24th day of October, 1854, for an improvement in looms, for seven years from the expiration of said patent, which takes place on the 24th day of October, 1868, it is ordered that the said netition be heard at the Patent Office on Monday, the 12th day of October next.

Stephen E. Booth, of Orange, Conn., administrator of the estate of Sheldon S. Hartshorn, deceased, having petitioned for the extension of a patent granted to the said Sheldon S. Hartshorn the 7th dayof November, 1854, and reissued the 26th day of May, 1868, for an improvement in buckles, for seven years from the expiration of said patent, which takes place on the 7th day of November, 1868, it is ordered that the said petition be heard at the Patent Office on Monday, the 26th day of October next.

John C. Schooley, of Cincinnati, Ohio having petitioned forthe extension of a natentgranted to him the 14th , ay of March, 1855, for an improvement in process of curing meats, for seven years from the expirationof said patent, which takes place on the 14th day of March, 1869, it is ordered that the said petition be heard at the Patent Office on Monday the 28th day of Dcccmher next.

BarnetL. Solomon, of New York city, executor of the estate of Myer Phineas, deceased, having petitioned for the extension of a patent granten to the said Myer Phineas the 24th day of October, 1854, for an improvement in pen holders, for seven years from the expiration of said patent, which takes place Richmond, Ind.

We claim the combination of the box, B, the table, A, the knife, C, and the at the Patent Office on Monday, the 12th day of October next, on the 24th day of October, 1868, it is ordered that the said petition be heard