

OFFICIAL REPORT OF PATENTS AND CLAIMS

Issued by the United States Patent Office,

FOR THE WEEK ENDING FEBRUARY 25, 1868.

Reported Officially for the Scientific American.

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

Table listing fees for patent applications: On filing each caveat, On filing each application for a patent, On issuing each original patent, etc.

In addition to which there are some small revenue-stamp taxes. Residents of Canada and Nova Scotia pay \$500 on application.

Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying the mode 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.

74,742.—HORSE BLANKET.—Seth W. Baker, Providence, R. I. I claim a horse blanket, manufactured or made up of the fabric herein described, as a new article of manufacture.

74,743.—REVOLVING HAIR BRUSH.—Jabez Bayston, Chicago, Ill. I claim the combination of the frame, A, B, D, the cylindrical brush, E, and the gear for operating the same, and the elastic support, J, arranged and operating substantially as and for the purposes specified and shown.

74,744.—ROTARY ENGINE.—Jos B. Bennett, Brooklyn, N. Y. I claim the arrangement of the springs around the wheels, D, with the pistons, E, E, and cylinder, A, substantially as and for the purposes specified.

74,745.—SHOE NAIL.—James M. Bent, Wayland, Mass. I claim the cut shoe nail, with conical head, and tapering and parallel sides as described.

74,746.—KNOB LATCH FOR DOOR.—Albert Bingham, New- tonville, Mass. Antedated Feb. 7, 1868. I claim the combination and arrangement of the latch, having link, B, and armed end, C, the removable tumbler, D, and spring, S, when the parts are constructed and operating substantially as described.

74,747.—SPRING BED BOTTOM.—Samuel F. Bouton, and Nathan P. Ames, Chicago, Ill. We claim the combination of the arms, d, and e, formed upon the coil of the spring, D, as shown, and a socket, c, applied or secured to the flat, C, in the manner and for the purposes specified.

74,748.—FARM GATE.—Henry H. Butler, Troy, Mich. I claim 1st, The horizontal sliding bar, D, when constructed and operating substantially as herein shown and described.

74,749.—MODE OF ATTACHING CIRCULAR SAWS TO THEIR MANDRELS.—Ela Calley, Franklin, N. H. I claim the arrangement of the separate nut, C, and its confining screws, b, b, shaft, A, the male screw, c, and the shoulder, a, applied to such shaft in the manner and for the purpose substantially as specified.

74,750.—PISTON.—S. E. Chubbuck, and Isaac Y. Chubbuck, Roxbury, Mass., assignors to themselves and S. E. Chubbuck, Jr. We claim, 1st, The peculiar construction of the ring sections, H, substantially as described and shown.

74,751.—SEWING MACHINE.—Edwin E. Clark, Ann Arbor, Mich. I claim, 1st, The slotted plate, C, constructed substantially as described, and for the purposes specified.

74,752.—PAINT BRUSH.—Amos Cutter, Chelsea, Mass. I claim the screw rod, g, when permanently secured on the handle, and forced downward by the female screw in the handle, f, in connection with the cylinder, a, as and for the purpose specified.

74,753.—COAL STOVE.—E. A. De Camp, St. Louis, Mo. Antedated January 21, 1868. I claim, 1st, The annular cooking top, C1 C2, in combination with the stove, A, substantially as described and set forth.

74,754.—SULKY CULTIVATOR.—Elias S. Easterday, Nokomis, Ill. I claim, 1st, Extending the plow beams, D, forward to form the tongue of the machine, substantially as herein shown and described, add for the purpose set forth.

74,755.—MANUFACTURE OF TIN-LINED LEAD PIPE.—John Farrell, Pittsburg, Pa. I claim, 1st, The die, e', in a plunger, c, in combination with a cylinder, a, and mandrel, d, in a machine for making tin-lined lead pipe, constructed and operated substantially in the manner and for the purposes hereinbefore set forth.

74,756.—BURNING FLUID.—George W. Flowers, Jacob C. Heppner, and D. W. Heppner, Urbana, Ohio. We claim the fluid prepared of the materials and substances as herein described.

74,757.—WORK TRIMMER FOR BOOTS AND SHOES.—A. V. Hill, Limestone, N. Y. Antedated Feb. 12, 1868. I claim, 1st, The guard, c, when applied to a work trimmer, in manner and for the purposes substantially as described.

74,758.—IMPLMENT FOR MAKING EYELETS.—David K. Hoxsie, Providence, R. I. I claim, 1st, The movable forming punch, No. 2, constructed with a cylindrical shape or former, e, a shoulder, i, a bevelled end, a, and a center cavity, t, when combined with mechanism so as to operate substantially as described, for the purpose specified.

74,759.—ANIMAL TRAP.—Samuel Huffman, Westfield, Ill. I claim, 1st, The pivoted chamber, B, turning on its axis, furnished with two opposite openings, c, c, and the lateral opening, D, as and for the purpose specified, or equivalent.

74,760.—BRECH-LOADING FIRE-ARM.—Baron H. Jenks, Bridesburg, Pa. I claim, 1st, Combining a vibrating slotted breech piece, D, a vibrating locking latch, E, and a hammer, F, in such manner that these parts are confined between the cheeks, B, of the frame, and the hammer is on the outside of the breech piece, substantially as described.

3d, So combining a vibrating hammer, F, which is arranged outside of a vibrating breech piece, and between the frame cheeks, B, that said hammer can be full cocked or half-cocked without moving the breech piece, substantially as described.

74,761.—WHIFFLETREE.—Daniel W. Johnson, Bloomsburg, Pa. I claim a whiffletree, having springs, A, slides, B, levers, H and M, chains, K, and button, C, constructed, combined, and arranged, substantially as specified.

74,762.—ANIMAL TRAP.—Wilmer W. Leech (assignor to himself and George Coutant), Pittsburg, Pa. I claim the curved or bent and coiled wires, e, e', one or more, single or double, in combination with the baiting and tripping devices, constructed and arranged substantially as and for the purposes set forth.

74,763.—KNIFE AND FORK SCOURER.—Mary Merrill, Marengo, Ill. I claim the combination of the box, A, the inner casing, E, the sieves, B and C, and the cork or rubber, D, as and for the purposes specified.

74,764.—MANUFACTURE OF BUTTONS.—Lewis Moses, New York City, assignor to himself and James C. Walter, Harlem, N. Y. Antedated Feb. 7, 1868. I claim, 1st, The cement consisting of liquid glass and finely powdered mineral matter, substantially as described, for the purpose specified.

74,765.—BRICK MACHINE.—Meltier Nye and Abraham J. Kelsey, Chicago, Ill. We claim, 1st, The combination of the movable fulcrum, F, connecting levers, E, M and N, with rolling shaft, P, chain, R, and weight, S, substantially as and for the purpose shown.

74,766.—MILK AND PROVISION RACK.—Erasmus Osborn, Rome Center, Mich. I claim the construction of a rack, as hereinbefore described, with perpendicular posts, A, transverse bars or feet, B, horizontal bars, C, cap, E, and rectangular pans, F, when arranged and operating substantially as and for the purposes described.

74,767.—SHEEP HOLDER AND FLEECE FOLDER COMBINED.—George Paine, Washington, Ohio. I claim the herein described sheep table, consisting of the top, B, sides, C, leaves, D, adjusting standard, F, and box E, all constructed and arranged to operate in combination with the apron, H, and roller, I, in the manner and for the purpose substantially as set forth.

74,768.—WATER ELEVATOR.—Wm. M. Palmer, Middleburg, N. J. I claim, 1st, The ropes, F, cylinders, G, collars, G1, roller, F2, oscillating levers, H, and lever, I, combined so as to operate substantially as set forth.

74,769.—CONCRETE BRICK MACHINE.—Isaac Pardee, Vine- land, N. J. I claim, 1st, The arrangement of the levers, F and J, when the same are connected with the sliding box, D, in the manner set forth.

74,770.—COAL HOD AND SCREEN.—Amos Porter (assignor to himself and N. S. Payne), Charl-stown, Mass. I claim, 1st, The combined hod or ash pan and sifter, when it is made of two parts so constructed as to have one half sifter or upon the other half, and the hored holes of the sifting bottoms are so arranged as not to come opposite to each other when one pan is put into the other, thus fitting the parts to act as a hot or ash pan, all substantially as described.

74,771.—CORD RETAINER FOR PICTURES AND MIRRORS.—Wm. Read, Jr., Boston, Mass. Antedated Oct. 10, 1867. I claim, 1st, The combination of a projecting end or point, c, in combination with an elastic plate, b, as and for the purpose specified.

74,772.—MECHANICAL DONKEY.—Alfred Shedlock and Wm. Shedlock, New York City. We claim, 1st, The combination of the cam wheel, K, made as described, with the spring, M, having a notched detent plate, N, attached thereto, for the purposes hereinbefore described.

74,773.—SLEEPING CAR BERTH.—Wm. B. Snow, Chicago, Ill. I claim the coil springs, L, enclosed in boxes between the floors of the car, in combination with pulleys, m, n, cords G, and berths E, arranged substantially as set forth.

74,774.—PORTABLE GRINDING MILL.—Ambrose W. Straub, Philadelphia, Pa. I claim securing firmly down together upon the frame, A, B, cast in one piece, as shown and described, the detachable curb d', coping ring b', and copper bowl F, by means of four nutted screw bolts, a5 a5 as a5, substantially as and for the purpose herein described.

74,775.—CULTIVATOR.—C. F. Taylor, Vassalboro, Me. I claim the A-shaped cultivator, A, with its center piece, a, and cross piece, a', in combination with the teeth, b, so arranged as to throw the earth inward, as and for the purpose specified.

74,776.—COTTON CLEANER.—J. W. Thorn, Courtland, Ala. I claim, 1st, Feeding drum F, A, catch lever L C T, ratchet C R, and aug. I, the whole combined and constructed and operating in the manner and for the purpose above set forth and described.

74,777.—MACHINE FOR SHEETING AND PRESSING TOBACCO.—Wm. H. Watson, New York City. I claim, 1st, The combination of two or more endless metallic belts, constructed substantially as described, for the purpose specified.

74,778.—FLUID METER.—J. W. Weller, Cleveland, Ohio. I claim, 1st, The casks C C', arranged in combination with the vibrating box A, in the manner and for the purpose substantially as set forth.

74,779.—BURGLAR ALARM.—I. M. Wells, Jeffersonville, Ohio. I claim, 1st, The rotary match lighter C, applied to a burglar alarm, and operating by a complete revolution, substantially in the manner and for the purpose described.

74,780.—DETACHING CHECK REIN.—Abram Westbrook and Stephen O. Doan, Leona, Pa. We claim, 1st, A cord attached to the check rein and extending back and confend in one of the driving reins, substantially for the purpose as described.

74,781.—PERMUTATION LOCK.—Anton Wetzel, Cincinnati, O. I claim, 1st, The combination of the tumbler, D, the miter wheel G, H, by which the gated disk E, F, P, P', P'' are situated and operated at right angles to the operating handle I, of the lock, as described and for the purpose specified.

74,782.—FIRE LIGHTER.—Levi H. Whitney, Vallejo, Cal. I claim as an article of manufacture, a fire lighter, constructed of the parts arranged substantially as described.

74,783.—TRAVELER'S TRUNK.—John N. Wunderlich, Philadelphia, Pa. I claim, 1st, The boot-rack made by the combination of the horizontal shelves, n, n, and folding legs E, when arranged beneath a traveling trunk, in the manner shown and described.

74,784.—MEASURING AND TALLYING ATTACHMENT TO THRASHING MACHINES.—W. F. Abbott, Marengo, Ill. I claim, 1st, The elevator box A, pulleys F, F', belts, and buckets z, in combination with the bifurcated spout C', doors D, measuring chambers M, and doors N, N, all constructed, arranged and operating substantially as set forth.

74,785.—MACHINE FOR BORING POST HOLES.—A. Q. Alis, Dayton, Ohio. I claim, 1st, The halfnut, o', and the method of engaging and detaching the same from the boring bar, substantially as and for the purposes described.

74,786.—PILLOW SUPPORT.—Emeline T. Annis, Mount Morris, N. Y. I claim the pillow, A, formed on the plate, B, the bracket, C, the rod, E, and the nut, g, arranged, combined and operating substantially as shown and described, for the purpose set forth.

74,787.—TEAKETTLE.—Cornelius Anthony (assignor to C. L. Sanford, George B. Near and James Troyer), Schenectady, N. Y. I claim, 1st, The key or wedge, B, in combination with recess, C, and ball, D, and swinging cover of a teakettle, substantially as shown and described.

74,788.—BUTT HINGE.—M. A. Avery, Groton, N. Y. I claim the right and left butt hinge having the screw holes countersunk upon each side when its leaf, a, is provided with an opening between the socket, a, and abutment, d, for the application of the eye, c, of the leaf, B, as herein shown and described.

74,789.—WASHING MACHINE.—P. F. Bindewald, Strongs- ville, Ohio. I claim the combination and arrangement of the lever, I, shaft, B, arms, C, connecting bars, D, pivoted levers, E, arms, G, and heaters, H, constructed as described, with each other and with the box or tub, A, substantially as herein shown and described, and for the purpose set forth.

74,790.—WASHING MACHINE.—P. F. Bindewald, Strongs- ville, Ohio. I claim the combination and arrangement of the lever, I, shaft, B, arms, C, connecting bars, D, pivoted levers, E, arms, G, and heaters, H, constructed as described, with each other and with the box or tub, A, substantially as herein shown and described, and for the purpose set forth.

74,791.—PREPARING FINELY-DIVIDED IRON, AND THE SEPARATION OF COPPER, SILVER AND OTHER METALS FROM THEIR SOLUTIONS.—Gustav Bischof, Jr., Georgetown, D. C. I claim, 1st, The preparation of finely divided metallic iron, in the manner and by the process substantially as described.

74,792.—SHOE FOR CAR BRAKE.—James Brahn, Jersey City, N. J. I claim, 1st, The shoe, B, cast with sockets, c, in combination with the plate, A, formed with projections, b, a, substantially as described for the purpose specified.

74,793.—LAMP BURNER.—Arthur W. Browne, Brooklyn, N. Y. I claim, 1st, The combination of the tube, B, and tubular wick deflector, C, constructed and arranged as herein described, and adapted for the employment of two flat wicks which are thereby spread and curved and made to produce a circular flame, substantially as set forth.

74,794.—HORSE RAKE.—E. W. Bullard (assignor to himself and J. W. Jenkins), Barre, Mass. I claim, 1st, The combination with a rake whose teeth are capable of being tilted or elevated in order to discharge the hay, or the stationary cleaners, F, and vertical fingers, G, operating with the rake, substantially in the manner and for the purposes herein shown and set forth.

74,795.—CATTLE PRICKER.—R. A. Carson and W. T. Peter, Briensburg, Ky. We claim, 1st, An apparatus for preventing cattle from lying down or jumping, substantially as shown and described.

74,796.—CHEESE BOX.—D. M. Cole, Elgin, Ill. I claim, 1st, The combination of the outer and inner case, E and A, constructed substantially as and for the purpose specified.

74,797.—MODE OF TREATING MINERAL PHOSPHATES FOR THE MANUFACTURE OF FERTILIZERS.—John Commins, Charleston, S. C. I claim uniting phosphatic minerals or earth with a solution of common salt, chloride of sodium, and water while hot, as and for the purpose herein described.

74,798.—CURLING IRON.—Samuel E. Condon, Brooklyn, E. D., N. Y. I claim the curling iron, A, when secured in the metal case, C, by means of the catch, F, upon the case, fitting over the flange, G, upon the handle, B, as herein shown and described.

74,799.—DUSTPAN.—Samuel E. Condon, Brooklyn, E. D., N. Y. I claim, 1st, The hinged cover, D, applied to the dustpan, A, and arranged in connection with the inclined flange, C, when a space is left between the hinge of the cover and the rear end of the pan, A, and when combined with the automatic coupling, all constructed, arranged, and operating as and for the purpose described.

74,800.—GLOBE VALVE.—Wm. S. Cooper, Philadelphia, Pa. I claim, 1st, The combination of the central guide piece, G, cap, B, and body, A, substantially as herein set forth.

74,801.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,802.—RUNNING GEAR FOR WHEELED VEHICLES.—W. C. Cook, Appleton, Wis. I claim, 1st, The combination of the reach, E, with the hounds, C, C, of the front axle, A, the bearing plates, a, a, at the rear of the hounds, the pivoted rear axle, B, and the segment bar, C, with the front end of the reach connect- ed to it by staple, b, all arranged substantially in the manner as and for the purpose set forth.

74,803.—GLOBE VALVE.—Wm. S. Cooper, Philadelphia, Pa. I claim, 1st, The combination of the central guide piece, G, cap, B, and body, A, substantially as herein set forth.

74,804.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,805.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,806.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,807.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,808.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,809.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,810.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,811.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,812.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,813.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,814.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,815.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,816.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,817.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,818.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,819.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

74,820.—MODE OF SECURING LABELS TO GLASS-WARE.—Edward M. Davis (assignor to himself, J. B. Clark, and J. A. Hunter), Pitts- burgh, Pa. I claim, 1st, The process for countersinking a metallic substance in glass- ware, in manner and for the purposes substantially as described.

**74,805.—GATE HINGE.**—P. Dennis (assignor to himself and Geo. Leggett), Schuylerville, N. Y.  
I claim the construction of the gate hinge consisting of the forked portion, D, having a socket in which the pin, C, of the box, B, fits, said box carrying above the pin, in the forked guides, b, the roller, A, as herein described for the purpose specified.

**74,806.—CHANNELING TOOL.**—F. E. Droll, St Charles, Mo.  
I claim, 1st, The side bar, B, as united with main bar, A, for the use and purpose as specified and herein set forth.  
2d, The adjusting smaller knife, D, to the smaller side bar, B, by means of the screws, independently of any other part of my machine, for the use and purpose as specified and herein set forth.  
3d, My spring, E, as constructed, so that it may be moved up or down in main bar as a guide, for the use and purpose as specified and herein set forth.  
4th, The entire combination of my knives, spring, and bars, with my mode of adjusting my knives and spring, for the use and purpose as specified and herein set forth.

**74,807.—STRAP FASTENER.**—S. W. Durham, Ipava, Ill.  
I claim the strap fastener, constructed as described, consisting of the plate, B, having upon one of its sides the loops, C, D, the latter bearing the tongue, E, whose inner end fits within the strap between the loops, C, D, as herein shown and described.

**74,808.—SHEEP SHEARING AND TAGGING TABLE.**—Green Fenton, Streetsboro, Ohio.  
I claim, 1st, The bottom, C, consisting of the sides, D, yokes, F, and straps, E, as arranged, in combination with the table, B, and adjustable neck block, G, for the purpose set forth.  
2d, The sliding supplementary top, I, sides, J, pillow, K, and extension legs, A, all constructed and arranged in the manner and for the purpose specified.

**74,809.—FRAME FOR CARRIAGE TOPS.**—James H. Flagg, Perkinsville, Vt.  
I claim the carriage top frame consisting of two or more bows of metal or other suitable material, the side bows being hung on an internal one, and the whole joined in the middle, in manner and for the purposes substantially as above set forth and described.

**74,810.—BEEHIVE.**—M. D. Fogel, Alpha, Ohio.  
I claim the within-described hive, when its several parts, exclusive of the trough, are constructed, combined, and arranged as set forth.

**74,811.—TRACK CLEANER.**—A. A. Freeman and Sam'l Ford, Philadelphia, Pa.  
I claim, 1st, The plate, B, bearings, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10, shafts, T, T', and T'', rooms, C, B, C', B', and C'', shafts, A, and S', bevelled wheels, V, V', and V'', geared wheels, G, G', G'', and G''', all constructed, combined, and operating in the manner and for the purpose above set forth and described.  
2d, The combination and arrangement of the screws, S, C, and S', with the carriage, so as to give the proper dip to brooms, C, B, C', B', and C'', as above set forth and described.  
3d, A track cleaner composed of the above-described parts, constructed and operating in the manner and for the purpose above set forth and described.

**74,812.—BED BOTTOM.**—J. C. Fry, Sidney, Ohio.  
1st, The loops, b, b, constructed as described, consisting of the wires, E, E, open at their outer ends, and applied to the slat, D, by inserting their opposite ends from the under side through the holes in the end of the slats, and bending them down upon the top of said slats towards each other, where they are again bent and inserted in the top of the slats as herein shown and described.  
2d, The single metallic strip, C, secured to the end or side rails, A, by the slip, B, and bent to form loops, a, whose sides pass through the strip, B, and whose inner ends rest against the inner side of said strip, as herein described for the purpose specified.  
3d, The combination of the loops, a, strip, B, loops, b, with central opening, elastic rings, F, as herein described for the purpose specified.

**74,813.—REFRIGERATOR.**—A. Fuller and L. P. Reichert, Buffalo, N. Y.  
We claim the combination of the fan wheel, C, sliding grate, M, the tubes, O, P, and Q, and charcoal chamber, J, arranged substantially as and for the purposes described.

**74,814.—HAY RAKER AND LOADER.**—Merritt B. Fuller, Sanborn, N. Y.  
I claim, 1st, The driving roller, B, provided with rows of curved teeth, b, b, and intermediate teeth, s, which rest on the ground and support the roller in combination with the axle, c, c, or equivalent, and endless carrier, C, operating substantially in the manner and for the purpose set forth.  
2d, The guide blocks, I, I, combined and arranged with the rows of teeth, b, b, and the slats, g, g, of the carrier, for retaining the latter in place and preventing slipping, substantially as specified.  
3d, The guide board, J, constructed and arranged and operating in the manner and for the purpose specified.

**74,815.—TOY.**—A. C. Funston, Philadelphia, Pa.  
I claim a toy, consisting of a case, having a glass top, and containing figures or particles of paper, or equivalent material, to which movements may be imparted, substantially as and for the purpose described.

**74,816.—THRILL COUPLING.**—Kingston Goddard, Richmond, N. Y.  
I claim the spring, C, secured at one end to the bottom of the clip, D, and extending around the axle and clip, secured at its other end to the thrill, B, forming a spring coupling, as herein described for the purpose specified.

**74,817.—THRILL COUPLING.**—Kingston Goddard, Richmond, N. Y.  
I claim the bending or forming of the outer end of the thrill iron, substantially as shown and described, so as to be capable of being fitted to the under side of clip, in the manner as and for the purpose set forth.

**74,818.—TRUSS.**—Samuel Green, New York City.  
I claim the combination and arrangement of the main plates, A, A, hinged to the center plate, a, the stiff springs, c, c, the slotted adjustable plates, B, B, with cross-heads, g, g, the pads, C, C, and the light springs, h, h, substantially as and for the purpose described.

**74,819.—HARNES MECHANISM FOR LOOMS.**—J. Greenhalgh, Sr., Woonsocket, R. I.  
I claim, 1st, The links, O, and hooks, R, constructed as described, when removably pivoted together by means of the notched pivot and slot, o', in combination with the slide, L, M, cylinder, S, as herein described for the purpose specified.  
2d, The combination and arrangement of the arms, F, H, I, and adjustable connecting rods, J, K, sliding bars, L, M, links, O, hooks, R, cylinder, S, pawl, V, slotted and upper jacks, P, with each other, substantially as herein shown and described.

**74,820.—CARRIAGE THRILL.**—S. B. Harmon, Portland, Me.  
I claim the thrill brace, b, when applied substantially as and for the purposes set forth.

**74,821.—FIRE-ESCAPE LADDER.**—D. Haynes and Wm. Free, San Francisco, Cal.  
We claim the combination and arrangement of the curved and grooved arm, n, with hinged ladder, c', windmill roller, I, rope, H', and platform, B, substantially in the manner shown and described, for the purposes set forth.

**74,822.—MACHINE FOR CLEANING COTTON.**—R. H. Hilton (assignor to Mitchell & Allen), Newbern, N. C.  
I claim the S-shaped perforated plate, b, the perforate plate, d, the side plates having perforations, a, drawing-rollers, E, E, and hinged screen, D, all constructed and combined to operate as herein described for the purpose specified.

**74,823.—HARNES-PAD TREE.**—J. W. Hinman, Berlin, Wis.  
I claim a harness pad tree having the two sides connected with a center-piece by joints or hinges to render them flexible, substantially as and for the purpose specified and described.

**74,824.—GRAIN REGULATOR.**—E. W. Hitchings, Potsdam, N. Y.  
I claim, 1st, The combination of the revolving cylinder, A, and stationary cylinder, B, Governor, D, cross bar, b, spindle, d, piston, E, and collar, g, substantially as set forth for the purpose specified.  
2d, In combination with the above, the distributing plate, J, side pieces, K, and screw, S, said plate being attached to the revolving cylinder, A, substantially as shown and described, and as herein described, in combination with the cylinder, B, revolving cylinder, A, and piston, E, all as set forth.  
3d, The guide, H, or the equivalent thereof, substantially as shown and described, in combination with a piston, E, of a cylindrical grain regulator, all as and for the purpose set forth.  
4th, The adjustable feed collar, g, substantially as shown and described, in combination with the cylinder, B, and piston, E, all as and for the purpose set forth.

**74,825.—TOY GUN.**—Socrates Hubbard, Quincy, Ill.  
I claim, 1st, Constructing the slide, D, of two heads, h, h, an intermediate slip, j, and pendant projections, e, f, whereby lightness, with strength and durability is obtained.  
2d, The gun, constructed and applied to the gun to retain the missile therein when the barrel is inclined downward, substantially as set forth.  
3d, The combination of the elastic cord, C, slide, D, trigger, E, and stop, G, all arranged for joint operation, substantially in the manner as and for the purpose specified.

**74,826.—SELF-RAISING FLOUR.**—William C. Hughes, Scio, Mich.  
I claim the preparation of self-raising flour in the manner herein described.

**74,827.—BUTTONHOLE CUTTER.**—August Humann, New York City.  
I claim the blade, F, having a tooth, e, formed at the rear end of its cutting edge, with said plates laterally adjustable, in combination with the blade, E, provided with a stud, b, working in a slot in the shank, c, and secured in position by the thumb screw, c, all constructed, arranged, and operating as and for the purpose herein specified.

**74,828.—TRUSS.**—Charles A. Jefferies and E. F. Oids, Dexter, Mich.  
We claim, 1st, The pad, A, provided with a rigid central projection as arranged in combination with springs, F, and belt, E, provided for the purpose and in the manner set forth.  
2d, The pad, H, when constructed with a central adjustable projection or core, c, adjusting screws, I, K, when arranged in combination with the cap, J, plate, G, and springs, F, in the manner as and for the purpose substantially as set forth.  
3d, A bed when constructed with a central air chamber, L, ventilating holes, a, and plate, N, in combination with the screw, O, and spring, F, when arranged in the manner as described and shown in fig. 7.  
4th, The segment slide, D', segmental plates, E', and section or cap, C', when arranged and pivoted to the section, A', by an adjusting screw, F', working in and operating a central core, B', so that when the pad is turned around from one side to the other the said central projection or core, B', will always occupy the same direction from a center of the belt, in the manner substantially as described and shown in figs. 8 and 9.

**74,829.—HORSESHOE.**—Jas. Jorey, Westville, Conn.  
I claim a calk for a horseshoe, provided with two edges, and constructed and applied to the shoe in such a manner that it may be detached and reversed and either edge adapted for use, as circumstances may require.

**74,830.—MACHINE FOR CUTTING VENEERS.**—Henry Kassing, New York City.  
I claim the worm shaft, M, worm wheels, N, screws, M', and bar, G, upon the inclined guide, d, all constructed, arranged, and operating upon the laterally moving table, H, as herein described for the purpose specified.

**74,831.—WAGON LOCK.**—O. A. Kenyon, McGregor, Iowa.  
I claim the slotted arm, F, of the lever, L, in combination with the pivot, a, pawl, F, segment, R, connecting rod, a, and pivoted brake, C, as herein described for the purpose specified.

**74,832.—MACHINE FOR POLISHING THREAD.**—Peter Kerr, Paisley, England.  
I claim, 1st, The machine for polishing thread, constructed and arranged substantially as herein described.  
2d, The construction and arrangement of the polishing apparatus herein described, in which the thread is polished by means of rollers having grooves or indentations, said rollers working up against the thread, one inside and the other outside the bank, substantially as herein shown and described.

**74,833.—COMPOSITION FOR CLEANING MILLSTONES.**—Daniel Kindig, Newville, Pa.  
I claim the foregoing solution, prepared substantially as described for the purpose set forth.

**74,834.—BOLT-MAKING MACHINE.**—Wm. Klemm and Robert Dittich, Pittsburgh, Pa.  
I claim the keys, H and L, or their equivalent, arranged in relation to the other parts of the machine, and operated substantially as described and for the purpose set forth.

**74,835.—HARVESTER.**—E. E. Lewis, Geneva, N. Y.  
I claim, 1st, The reversible conveyor, E, when set to deliver grain from a reaping machine behind the fuser bar, substantially as specified.  
2d, A discharging apparatus for harvesters which will deliver the second swath from a reaping directly upon or near the first swath as to form a double swath or windrow convenient to be loaded upon a wagon.

**74,836.—HARVESTER RAKE.**—C. Lidren (assignor to himself and R. Jackson), Laayette, Ind.  
I claim, 1st, The hinged platform, B, in connection with the elastic metallic bars, D, constructed, arranged, and applied in the manner substantially as and for the purpose set forth.  
2d, The arrangement of the rake, when operated from the wheel, E, of the main frame, through the medium of the jointed arms, h, h, rock shaft, I, link L, and the slotted arm, J, on the axle of wheel, K, all arranged substantially as shown and described.  
3d, The carriage, F, in which the rake head or rod, b, is fitted, in combination with the lever, F', curved bar, G, projection, L, pin, J, and the curved bar, M, all arranged to operate or adjust the rake, substantially as set forth.  
4th, The hooks, N, N', arranged as shown, and operated from the rock shaft, I, through the medium of the lever, R, and the arm, m, on the rock shaft, all arranged substantially as specified.

**74,837.—EGG BEATER.**—Henry W. Loudon, Ephrata, Pa.  
I claim the arrangement of the double beaters, D, C, C', pipe or sleeve, B, and spin, E, A, with the pinions, a, b, in combination with the box or cover, K, T, cogged gear and handle, substantially in the manner and for the purpose specified.

**74,838.—MECHANISM FOR OPERATING STATIONARY MACHINERY.**—Galusha Maranville, Hampton, N. Y., assignor to D. A. Wilson and Ebenezer Gould, Jr.  
I claim, 1st, The arrangement of one shaft, B, by intermediate gear wheels and shafts, G, D, E, motion of two revolving shafts, F and H, and to one oscillating shaft, G, all made and operating substantially as described, so that, from one driving shaft, three or more various machines may be operated, as set forth.  
2d, The manner of converting rotary into oscillating motion by connecting a short crank, L, on the revolving shaft, F, by means of a rod, n, with a long crank, m, on the oscillating shaft, G, substantially as herein shown and described.

**74,839.—DE ICE FOR FASTENING SHOE LACING.**—Oliver H. Marston, Sandwich, N. H., and Moses L. Morse, Stoneham, Mass.  
We claim, 1st, The base, a, having openings, c, c, for the lacing to pass through, and having the ends, d, bent upward at any convenient angle.  
2d, The spring, b, having the edges, f, which are parallel to the upturned edges, d, of the base, slightly bent downward.  
3d, The combination and arrangement of the base, a, with the spring, b, to operate together as described.

**74,840.—LITHOGRAPHIC PRESS.**—Charles Maurice, New York City. Antepated Feb. 13, 1868.  
I claim, 1st, The case, C, when arranged so that it can be adjusted for wider or narrower stones or blocks, substantially as herein shown and described.  
2d, The case, C, when consisting of two pieces or halves, which are laterally adjustable on the frame, A, and when combined with the up-and-down adjustable frame or plates, H, all arranged and operating substantially as herein shown and described.  
3d, The roller, D, when connected with the weighted frame, E, and with the stone or block, G, so that by rotary motions of the roller the latter will be moved over the paper and stone, and will not be drawn over the same, thereby insuring neatness of workmanship.  
4th, The arrangement of the roller, D, in combination with the roller, D, and weighted frame, E, all made and operating substantially as and for the purpose herein shown and described.

**74,841.—HUB AND AXLE.**—Norman Maxham (assignor to himself and C. G. Robbins), Hancock, Vt.  
I claim the sand head, D, in combination with the hub, A, and cover, H, and axle, B, substantially as shown and described and for the purposes set forth.

**74,842.—ANIMAL TRAP.**—William Miller, Chicopee, Mass., assignor to himself and John Boyle, Erie, Pa.  
I claim the combination and arrangement of the weighted drop door, B, loop or catch, C, pivoted catch, D, having a bait hook, d', formed upon or attached to the spring, a, standard or post, E, and curved guard plate, F, with each other, and with the top or cover, A, substantially as herein shown and described and for the purpose set forth.

**74,843.—WAGON COUPLING.**—Henry Mitchell, Racine, Wis.  
I claim, 1st, The method of coupling the reach, C, to the other running parts of a wagon or other wheeled vehicle by means of the front coupling, A, and the rear coupling, B, constructed and attached substantially as shown and described.  
2d, The construction of the coupling box, A, having the sides thereof bent inward, so as to form the pockets, a, substantially as shown and described and for the purpose set forth.  
3d, I be flanges, c, upon the rear coupling box, B, in combination with the bolster, E, and the axle, F, substantially as shown and described and for the purposes set forth.  
4th, The manner of adjusting the length of the reach, C, to the length of the load, substantially as shown and described.  
5th, The arrangement of the reach, C, with the reach, C, and the hounds, D, in combination with each other and with the rear coupling box, B, and the axle, F, and bolster, E, substantially as shown and described and for the purposes set forth.

**74,844.—SNOW PLOW.**—George Place, New York City.  
I claim the combination and arrangement of the knives, A, A, and B, B, in sections, when combined with one or more plows, attached to the truck frame, and with the frames, E, E, of the truck, in the manner and for the purpose herein described.

**74,845.—HARVESTER RAKE.**—Abraham Quick, Wm. S. Opie, and Andrew J. Farrand, Raritan, N. J.  
We claim, 1st, A standard for a revolving rake and reel, with its base bolted directly to the inner end of a finger beam, having a rocking or rolling axle above the plate of the cutters between the finger beam and main frame, whereby the finger beam can rock axially, without disturbing its relation to the rake.  
2d, The combination, substantially as described, of a revolving reel and rake with a standard bolted directly to the inner end of an axially rocking hinged finger beam, and without support on the main frame.  
3d, Mounting the rake and reel revolving on a vertical axis, on a finger beam hinged to the main frame by three joints, substantially as described.

**74,846.—SELF-ACTING BOLT.**—Thomas Rattenbury, Detroit, Mich.  
I claim, 1st, The projection or thumb piece, C, working in the slot, E, by which the closing of the second door compels the bolt, B, to act.  
2d, The combination of the above described parts with the frame, A, the spring, D, and the stem, F, when constructed to act automatically, substantially as described.

**74,847.—HARVESTER.**—James H. Redfield and Walter J. Cox, Salem, Ind.  
We claim, 1st, The cutter bar, I, provided with the curved teeth, h, having their concave edges forming the cutters, in combination with the crank pulley, J, upon the vertical shaft, K, gears, L, shaft, m, bevel gears, n, shaft, o, plim, p, and gear wheel, E, upon the axle, D, all arranged to operate as herein described, for the purpose specified.  
2d, The endless bands, q, q, when provided with the springs, bx, in combination with the gavel receiver, Ix, pinion, u, curved segment, w, shaft, wx, and crank, ax, all arranged and operating as described, for the purpose specified.  
3d, The application of springs or elastic plates, bx, to the endless bands, q, for the purpose of discharging the cut grain into the grain receptacle, substantially as set forth.  
4th, The pendant plate, t, when provided with the curved slots, f, in combination with the set screw, e, frame, H, and bar, A, all arranged and operating as described, for the purpose specified.

**74,848.—BOOT CRIMPING MACHINE.**—C. H. Rice, Port Henry, N. Y.  
I claim the rotary boot trees, C, in combination with the jaws or pressure plates, D, D', D'', all being constructed and arranged to operate in the manner substantially as and for the purpose set forth.

**74,849.—CAR VENTILATOR.**—David C. Richardson, Lawrence, Mass.  
I claim the combination and arrangement of the self-adjusting folders, d, e, connected by the rod, j, in the open-mouthed space between the weather plates, b, c, with the register plates, p, substantially as and for the purposes herein set forth.

**74,850.—SCREW CAP FOR OIL CANS.**—William Rigg, London, England. Patented in England Feb. 6, 1867.  
I claim, 1st, The screw cap for oil cans struck up from one piece of metal, and used as a seal, substantially as herein shown and described.  
2d, The combination of the faucet having a cutter upon its screw-threaded end, with the struck-up metallic cap and seal, substantially as described, for the purpose specified.

**74,851.—BOOT AND SHOE SOLE.**—Homer Riggs, Oxford, Conn. Antepated Feb. 12, 1868.  
I claim the toe piece, A, and rear plate, B, as constructed, and the manner

of inserting the oversole, E, and securing it for wear, so that it can be sprung in or out, substantially as and for the purposes herein set forth.

**74,852.—GOVERNOR.**—Ephraim P. Rogers (assignor to himself, R. W. Payne, and Hiram Pritchard), Corning, N. Y.  
I claim the governor constructed as described, and consisting of the hollow slotted disk, A, having tubular stem, B, and neck, n, the weight, K, provided with stem, m, valve stem, C, swivel joint, f, cross bar, F, connections, G, levers, E, and balls, D, all arranged and operating as set forth.

**74,853.—CARD SETTING MACHINE.**—James Russell, Springfield, Mass.  
I claim, 1st, A reversible stop ring, A, with its flanges, b, b, its slots, c, c, and its end and groove, a, constructed as herein described and for the purposes set forth.  
2d, In combination with the above, a pin or plunger, I, worked by the cam K, as and for the purposes described.

**74,854.—BEEHIVE.**—P. J. Severson, Knowersville, N. Y.  
I claim, 1st, Separators, E, when constructed with top bar, G, and pins, H, substantially as and for the purposes described.  
2d, The double comb frames, D, in combination with spaces, s, s', and separators, E, substantially as herein set forth.  
3d, Surplus honey box, B, with its cap or cover, C, and double comb frames D, and separators, E, when constructed in the manner and for the purpose as herein described.

**74,855.—PAN LIFTER.**—Morrill A. Shepard, Bridgeport, Ill.  
I claim a pan lifter consisting of the members, A, a' B and C, D, the whole being arranged and operating substantially as herein described and for the purpose set forth.

**74,856.—DUMPING WAGON.**—Henry Shirey, Fond du Lac, Wis.  
I claim, 1st, The revolving supporters, d, d, d, came, f, bar, g, lever, h, fulcrum, k, and brace, i, constructed substantially as described and operating as set forth.  
2d, The bottom boards, b, b, loops, c, c, in combination with a body or wagon bed, when constructed and operating substantially in the manner and for the purposes set forth.

**74,857.—OYSTER DREDGING MACHINERY.**—Thomas P. Sink, Fairton, N. J., assignor to himself and J. F. Trechard, Philadelphia, Pa.  
I claim, 1st, The two rollers, F, and G, arranged on the deck or gunwale of the vessel, for the boarding and tilting of the dredger, substantially as described.  
2d, The combination described of the rollers, F and G, with the hinged bar, W.

**74,858.—BOOT AND SHOE.**—George Smith and Godfrey Smith, New York City.  
We claim the opening of boots and shoes by stitching a piece of leather or other suitable material to the inner side of the upper in such a manner as to form pockets or grooves between the upper and the inner material, to include cords of any suitable material, by which protrusions are given the outer or external surface of the upper, substantially as shown and described.

**74,859.—POCKET FOR BILLET STRAP.**—Henry H. Smith, Wilmington, Del.  
I claim a pocket, E, of metal or its equivalent, and at the lower edge of which is a perforated flange, for the purpose specified.

**74,860.—CAR BRAKE.**—W. H. Smith and Joseph Steger, New York City.  
We claim the combination of the spring, K, cams, I, I', constructed as described, ropes or chains, h, and pulleys, g, substantially as and for the purposes described.

**74,861.—CLOVER HARVESTER.**—S. L. Stockstill and W. H. H. Scarff, Medway, Ohio.  
We claim, 1st, The suspended bed, C, in combination with the thills, J, J, attached to the axle, A, and the shaft, L, placed on the thills, with the segment, M, on said shaft, the arm, O, hand lever, P, and pawl, Q, all arranged substantially as and for the purpose set forth.  
2d, The comb teeth, D, attached to the front end of the bottom, a, of the bed, in combination with the reciprocating bar, G, operated substantially as shown and described, and provided with knives I, which are provided with curved points, to work in zigzag slots, n, in one or more of the teeth, D, of the comb, to give said knives a reciprocating motion as set forth.

**74,862.—STREET PAVEMENT.**—Henry M. Stow, San Francisco, Cal.  
I claim a pavement composed of tiers of wedge-shaped wooden blocks, driven into a foundation bed of sand or earth, with spaces between said tiers packed with gravel, or sand and gravel, substantially as shown and described.

**74,863.—LAMP.**—Alvin Taplin, Somerville, Mass.  
I claim my improved lamp burner, constructed with the annulus E, to screw into the neck or cap of the oil reservoir D, and with the body A, connected with the annulus by a hinge only, the whole being in order that the body A, by means of the hinge and the annulus, may be connected with the reservoir or its cap, in manner as specified, and the body be movable, relatively to such annulus, substantially as and for the purpose set forth.

**74,864.—BREAD AND VEGETABLE CUTTER.**—Hiram A. Titus, Gloverville, N. Y.  
I claim the arrangement of the plates B and D, in combination with the lever F, and knife E, all made and operating so that the knife will receive a slanting motion and the required pressure, substantially as set forth.

**74,865.—CRIB ATTACHMENT FOR BEDSTEPS.**—Harriet Ruth, Tracy, New York City.  
I claim the head end when cut away in the center of its side to receive the crib E, sliding beneath the bars c, and between the transverse guide bars D, attached to the frame of the bedstead, and the front end of board of said crib E, designed to overlap the cut portion of the side of the bedstead, as herein set forth for the purpose specified.

**74,866.—SKATE.**—Levi B. Tyng, Lowell, Mass.  
I claim the combination and arrangement of the grooved stands c, c, slots d, d, screws or pins n, spring seat e, e, and springs f, f, substantially as and for the purpose herein specified.

**74,867.—ENVELOPE.**—Sigmund Ullman, New York City.  
I claim, 1st, The envelope formed with the end flanges or laps F, F, and the folded and interlocking edges m, m, substantially as and for the purpose specified.  
2d, The combination of the yelets n, n, and stamped or printed impressions v, v, around them, when constructed and employed substantially as and for the purpose specified.

**74,868.—TRIP HAMMER.**—Charles Vogel, New York City.  
I claim, 1st, The bars or rods Q, secured to the cross head P, of the hammer stem G, when said rods are attached to the angular arms B, upon the front end of the beam S, as herein shown and described.  
2d, The block U, provided with the cam-shaped end X, when adjusted upon the beam S, by means of the slots V, and screw bolts W, as herein described for the purpose specified.  
3d, The arrangement of the sliding pulley A4, or its equivalent, with the block U, and with the operating beam of the hammer, substantially as described for the purpose specified.  
4th, The tightener frame A5, bearing in one end the driving pulley B5, arranged with the connecting rod C5, curved treadle D5, and spring K5 as herein described for the purpose specified.

**74,869.—PEPPER CASTER BOTTLE.**—Edward Wattis, Sr., Philadelphia, Pa.  
I claim the pepper caster bottle, having a slide C, in its flat bottom, enabling the latter to be formed at the extreme lower end of the bottle, and increasing the capacity of the same, as herein shown and described.

**74,870.—DRILL AND COUNTERSINK.**—P. A. Whitney, Woodstock, Vt.  
I claim, 1st, An adjustable tool for the drilling and countersinking holes, composed of the countersink, I, two "prits" and a drill D, between the same, adjusted by a key or its equivalent, held between the segment A and B of my chuck, by being screwed into a socket C, substantially as shown and described and for the purposes set forth.  
2d, A chuck formed in segments, having two splines or channels, a, and a, of different depths, in combination with any countersink, e, and drill D, substantially as shown and described, and for the purposes set forth.

**74,871.—COSMETIC.**—I. M. Wilson, Seguin, Texas.  
I claim the composition of a cosmetic, substantially as herein described.

**74,872.—SPRING BED BOTTOM.**—E. E. Worden and H. Wilms, Brandon, Vt.  
We claim the stays C, supporting the outer edges of the frame A, B, the ends of the upper piece of the slatted side upon pins in the lower frame, and connected at its center I, to the upper frame, the lower piece of said stay secured at its center to the lower frame, and at its end to upper piece all operating as described for the purpose specified.

**74,873.—CULINARY STEAMER.**—G. W. Worster, Bangor, Me.  
I claim, 1st, Combining with tank, C, a plurality of receptacles, b, b, substantially in manner as described and shown.  
2d, Combining the receptacles b, b, with the tubes a, a, so that the tubes prevent the return of the condensed steam to the tank, substantially in manner as and for the purpose specified.  
3d, The removable receptacle, i, formed of tubes, a, a, as shown at c, c, substantially as and for the purposes specified.  
4th, In connection with receptacles b, b, a conductor I, substantially as described and shown.  
5th, Combining with tank C, provided with fixed receptacles b, b, a removable receptacle i, substantially as described and shown.  
6th, The removable receptacle i, formed of vessels of various sizes by its outward flare, and provided with the interior rim g, g, substantially as and for the purposes specified.

**74,874.—STRIPPER FOR CARDING CYLINDERS.**—Fletcher M. Abbott, Boston, Mass., and Edward F. Fields, Lewiston, Me.  
We claim the mechanism, constructed and operating substantially as described, for moving and regulating the "stripper," as and for the purpose set forth.  
Also, in combination with a "stripper," supported in a sliding bearing, a feed connecting and disconnecting mechanism, substantially as described and for the purpose set forth.

**74,875.—APPARATUS FOR EVAPORATING SORGHUM JUICE AND OTHER LIQUIDS.**—Hiram B. A. Vary, Bethel Township, Mich.  
I claim the evaporator B, in combination with the steam chest A, when said chest is furnished with pipes, e, g, h, and m, substantially as set forth.

**74,876.—SOFA CRADLE.**—Henry A. Axtell, Westfield, Mass.  
I claim the combination of the swinging sofa cradle C, with the device for converting the cradle into a sofa, consisting of the adjustable screws, a, and hinge E, constructed and arranged substantially as described.

**74,877.—LATHE TOOL HOLDER.**—John Baillie, Salem, Ohio.  
I claim the holders C, C, when used in combination with the slotted clamp B, and thumbscrew D, substantially as and for the purpose herein set forth.

**74,878.—CLEANING CLOTHS USED BY BANK NOTE ENGRAVERS.**—Hayden M. Baker, New York City.  
I claim the use of coal tar, benzine, coal-tar naphtha, or refined coal-tar light oils, for removing printers' ink from cloths or other fiber used by bank note and other engravers.

Also, the separation and recovery of the printers' ink and solvent by distillation, or any other method substantially the same.

**74,879.—PLANT PROTECTOR.**—Robert M. Bartlett, Storrs Township, Ohio.  
I claim, 1st, A plant protector, consisting of the following devices, to wit: A hood A, of any suitable shape, when used in connection with the pole B, and suspending cord F, the whole being arranged and operating substantially as herein described and for the purpose set forth.  
2d, In combination with the elements A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, the ventilator D, and cap G, as and for the purpose explained.  
3d, The conical hood A, having one or more lighted openings or "bull-eyes" C, and adapted for suspension to a stack or pole, in the manner substantially as set forth.

**74,880.—APPARATUS FOR BENDING METALLIC PLATES.**—John W. Bean, Henry, Ill.  
I claim the improved apparatus for bending and tempering plow and similar plates, when constructed and arranged in its several parts substantially as described.

**74,881.—SOLDERING IRON.**—Theodore Bardsley, Springfield, Mass., assignor to himself and J. Dana Wyman, Fitchburg, Mass.  
I claim, 1st, A soldering iron, in which the point is heated by a flame fed by a reservoir of fluid contained in the handle of the instrument.  
2d, The combination of the handle H, reservoir B, and head C, substantially as and for the purpose set forth.

**74,882.—RAILROAD CHAIR.**—L. B. Bidwell, Hartford, Conn.  
I claim an improved railroad chair, constructed of plate iron, with a portion of the sides turned up at right angles to the bottom, in such a manner as to leave the bearing ends of the same width as the original plate, and to have their upper portion curved out to the edges of the bearing ends, to increase their stiffness, substantially as specified.

**74,883.—BOILER FEED LOW WATER DETECTOR.**—Joseph N. B. Bond, New York city.  
I claim, 1st, The bucket tube B, operating the alarm whistle F, by means of the arms D and E, and connected with the boiler A, as shown, when arranged and operating as herein shown and described.  
2d, The float H, operating the valve I, in the conical nozzle of the supply pipe I, which is provided with the nozzle n, and check valve o, in combination with the pipes h, p, steam cock J, and bucket tube B, substantially as and for the purposes described.

**74,884.—BELLOWS.**—John Bowden and Walter Bowden, Bushwick, N. Y.  
We claim, 1st, The arrangement and combination of the valves c\*, s, l, m, and e, relatively to and with the forcing chambers C and B, and air chamber A, substantially as set forth.  
2d, The cover a, of the air chamber A, connected therewith by an annular, flexible diaphragm, arranged for operation in connection with the forcing chambers B and C, substantially as specified.  
3d, The arrangement of the side slots f\*, between the fixed and yielding covers of the air chamber A, for admission of air to the forcing chamber B, through valves, substantially as shown and described.

**74,885.—FLOW.**—Jeremy Bradley, Owatonna, Minn.  
I claim the combination and arrangement of the plow A, standard B, and clasp C, in the manner and for the purposes herein specified.

**74,886.—ANIMAL TRAP.**—A. C. Briant, Lafayette, Ind.  
I claim the combination of the box A, with its partition B, shaft H, having platform J, in combination with the door K, and the platform L, and operated by the rod G, and cord F, all constructed and used substantially as specified.

**74,887.—ANIMAL TRAP.**—Manlove Butler, Vernon, Ind.  
I claim an animal trap constructed with the parts A, B, C, and D, arranged as described, the oscillating wheel D being constructed with one loaded wing D', so as to act by gravity only, substantially in the manner set forth.

**74,888.—BREECH-LOADING FIREARMS.**—Cornelius Callaghan, Great Britain.  
I claim the combination with central rib, substantially as described, of two breech-blocks swinging outwardly therefrom.  
Also, the combination with a removable frame of the breech blocks, substantially as described, and the whole being removed from the stock and the blocks released from the rib, the blocks are free to be removed from the frame, substantially as described.

**74,889.—ANIMAL TRAP.**—Charles R. Capps, Illinois, Ind.  
I claim the combination of the disk A, sections b, b1, b2, b3, b4, platforms k, k1, k2, k3, k4, with their studs and springs, as shown, projection o, spiral spring d, casing h, and cage R, of an animal trap, as and for the purpose specified.

**74,890.—BOOT AND SHOE LAST.**—Charles F. Carr and Gilbert F. Holbrook, Norwich, N. Y.  
We claim the sliding bolt, b, operated on as described and shown and for the purposes as substantially set forth.

**74,891.—TIP SLED.**—Stephen Chamberlin, Boston, Mass.  
I claim, in combination with the sled runners, a body mounted as to tip, substantially as described.

**74,892.—HORSESHOE.**—George T. Chapman, New York city.  
I claim, 1st, The continuous detachable calk, B, combined with the part A, substantially as described.  
2d, The continuous detachable calk, B, and pin, C, in combination with the part A, substantially as described.

**74,893.—GRAIN DRYER.**—Lewis S. Chichester (assignor to himself, G. Nichols and C. W. Mills), Brooklyn, N. Y.  
I claim, 1st, The first and second rotaries, A and B, in combination with the deflectors, c, platforms, c, and grain tables, platforms, or hoppers, substantially as and for the purposes set forth.  
2d, The sections, g, having hopper-shaped openings and placed together, substantially as and for the purposes set forth.

**74,894.—CARRIAGE JACK.**—Olney Churchill, Canton, Pa.  
I claim a lever jack, when constructed and operating substantially as shown and described.

**74,895.—COMBINED MANURE FORK AND HOOK.**—C. C. Cole, Phelps, N. Y.  
I claim the special construction and arrangement of the divided socket, C, provided with the corrugations or grooves, b, c, the spring pawl, l, and the circular bearing, B, the whole being arranged and operating as shown, A, and scraper, G, and operating in the manner and for the purpose herein set forth.

**74,896.—VALVE FOR WATER CLOSET.**—William S. Cooper, Philadelphia, Pa.  
I claim a water closet valve comprising hollow piece, B, annular space, A, R, and holes, R' and E and h, all constructed and operated in the manner and for the purpose above set forth and described.

**74,897.—SNAP HOOK.**—J. C. Covert, Newark, N. J.  
I claim, as an article of manufacture, providing the shank of the snap hook with a groove into which is dropped the sliding bolt, D, and loose spring, e, said groove being covered by means of the plate, G, and the bridge, I, which conceal, keep in place, and protect the spring and bolt, one end of the shank being so formed that it can be pivoted to a hold-back, when the several parts are constructed and arranged as and for the purpose set forth.

**74,898.—APPARATUS FOR BLEACHING WITH SULPHUR FUMES.**—A. J. Crosby and O. W. Crow, Buffalo, Ind.  
We claim the box, A, with the doors, B, B, vessel, C, having a regulating slide, D, and the bars, E, E, the whole combined, arranged and used in the manner and for the purposes specified.

**74,899.—APPARATUS FOR HEATING AND VENTILATING RAILWAY CARS.**—D. H. Dotterer, Philadelphia, Pa.  
I claim the within-described combination of furnace, boiler, air-heating chamber, and engine with the fan blower, or equivalent device, whereby a forcible current of heated air is created and maintained through pipes which convey the air to and distribute it within the several cars of a railroad train, substantially in the manner described.

**74,900.—RAILROAD RAIL JOINT SPLICE.**—Edmund H. Eberman, Lampeter Square, Pa.  
I claim the construction of the flanged and double dove-tailed brace and fluting or plugs, B, B' b', used jointly or severally, in combination with the bolt, C, and nut, D, and dove-tailed slot, a, cut in the rail, all arranged in the manner shown for the purpose specified.

**74,901.—SHOE TIP.**—Alfred B. Ely, Newton, Mass.  
I claim the use of resinous bodies combined with fibrous material and shaped by means of heat and pressure, substantially as described.  
Also a shoe tip made of the foregoing substances and formed into shape by means of suitable pressure with or without heat, substantially as described.  
Also a shoe tip made of felt or woven material saturated with resinous substances or prepared rubber which when properly heated and pressed in molds will assume the proper shape and acquire and possess the proper hardness and elasticity, substantially as described.

**74,902.—WASHING MACHINE.**—Levi S. Enos, Almond, N. Y.  
I claim the pounders, D, D, as constructed and arranged for receiving weights, J, J, in combination with the friction rollers, a, a, vertical stationary board, G, having series of holes, l, l, and corrugated hinged lid or cover, A, substantially as and for the purposes herein set forth.

**74,903.—WATER WHEEL.**—F. R. Ferris, Dora, Ind.  
I claim the collar, H, in combination with the collar, E, arms, G, and gates, L, L, the same being used substantially as and for the purpose set forth.

**74,904.—TOY PISTOL.**—Russell Frisbie, Cromwell, Conn., assignor to J. and E. Stevens & Co.  
I claim the toy gun having its barrel provided with an orifice or vent, a, arranged in relation with the piston, C, to operate substantially as and for the purpose specified.

**74,905.—ELECTRO-MEDICAL BATTERY.**—Herman Fritz, Cleveland, Ohio.  
I claim, 1st, The battery case, when constructed in sections, A, B, in the manner as and for the purpose substantially as set forth.  
2d, The special manner of connecting the porous cups to the caps of cylinders by means of the shoulder, c, metallic screw collar or rim, c, and cap, S, in the manner substantially as described.  
3d, The arrangement of the helices, T, T, surrounding the cylinders, D, E, and inclosing circular magnets, N, when said magnets are so arranged that they may be raised or lowered within said helices by an adjusting screw, x, for the purpose and in the manner described.  
4th, A case, constructed of metal or of any other suitable material inclosing the prime and induction coils, T, T, and m, for the purpose specified.  
5th, The foot plates, B, B, provided with the heel, B', and adjustable toe cap, C, G, arranged in connection with the battery case, in the manner as and for the purpose set forth.

**74,906.—STOVE HEARTH.**—William I. Fryer (assignor to himself and John P. Whitbeck), West Troy, N. Y.  
I claim the open hearth plate, C, projecting from and externally to the fire-box of the stove formed with flanges and slides so as to carry in combination with it the sh pan or drawer, D, and replacing pan, H, as described.

**74,907.—MANUFACTURE OF SOLID STEEL KNIVES.**—J. W. Gardner, Shelburne Falls, Mass.  
I claim a solid wrought-steel knife or fork with a skeleton or open handle and formed out of one piece of metal, substantially as described.

**74,908.—FENCE.**—Melvin J. Gaskill, Pleasant Plain, Ohio.  
I claim the holding of the wires firmly in their places upon the battens by means of clutches turned upon the ends of the wires and driven into the battens, substantially as set forth and for the purposes specified.

**74,909.—TREE FOR SIDE SADDLE.**—Joseph B. Gathright, Louisville, Ky.  
I claim, as an article of manufacture, a tree for a side saddle combining in its construction the following elements, viz: the bars, A, B, flattened cantel, B, extension, D, D', leather base, E, and block, F, said parts being respectively constructed and arranged in relation to the other parts of the tree, as herein described.

**74,910.—FOLDING CHAIR.**—H. S. Golightly and C. S. Twitchell, New Haven, Conn.  
We claim, 1st, A cross-legged folding chair in which the back is hung upon pivots, or in an equivalent manner, so that it may move or swing independently of the seat and frame to adjust itself to the back of the person occupying the chair, substantially as herein shown and described.  
2d, The combination with the back legs and the seat, whether rigid or flexible, of a folding chair of the front legs and a back pivoted or hung between the ends of said legs which extend above the seat so as to swing or move independently of the seat and legs, substantially in the manner and for the purpose set forth and as specified.

**74,911.—COUNTING ATTACHMENT FOR THREAD-WINDING MACHINE.**—William Grover, Holyoke, Mass.  
I claim, 1st, A releasing plate or tripper in combination with the spool-removing mechanism of a thread-winding machine, as and for the purpose set forth.  
2d, The notched adjustable plate, b, secured to the vibrating arm in combination with the traveling stud, a, substantially as described.  
3d, The vibrating arm b', supporting the pawl, c, springs, e and et, and notched plate, b, in combination with the revolving dial plate, detent, m, and tension spring, g2, substantially as set forth.  
4th, The combination of the adjustable stops, s, and pin, q, with the revolving dial plate or revolving index, arranged and operating substantially as and for the purpose specified.

**74,912.—INSOLE FOR BOOTS AND SHOES.**—Artemus N. Hadley, Richmond, Ind.  
I claim, 1st, The provision of the spur piece or counter, B, at the rear edge of an elastic insole, substantially as and for the purpose set forth.  
2d, The combination of the sole piece, A, spur or counter, B, and protuberance, C, as and for the purpose set forth.

**74,913.—RATTAN MACHINE.**—Levi Heywood, Gardner, Mass.  
I claim a central tube or "quill" provided with slots or openings in combination with a series of adjustable cutters, B, substantially as and for the purpose set forth.

**74,914.—GEARING FOR LAMP TRAIN.**—Robert Hitchcock and George A. Jones, New York city.  
We claim, 1st, A gear wheel constructed of hard rubber or similar material possessing sufficient hardness with elasticity for gearing, for the purposes set forth.  
2d, The combination of gear wheels made of hard rubber or other material uniting like hardness and elasticity, with metallic gearing in mechanical movements, for the purposes set forth.  
3d, The combination of mechanical trains for supplying air to lamps of the hard rubber gear, c, with the fan-wheel screw shaft, substantially as and for the purposes set forth.

**74,915.—GATE LATCH.**—Simon Ingersoll, Mianus, Conn., assignor by mesne assignments to himself and Job Johnson.  
I claim the gate latch, c, d, suspended by the two fulcrum pins, b1, b2, and moving between the plates, D, and E, substantially in the manner and for the purposes set forth.

**74,916.—STRAP HOLDER.**—George B. Kirkham, N. Y. city.  
I claim the body of the holder as adapted with the slide, the bent wire, b, and chain, c, at one end and as adapted with the catch and springs at the other end, all as herein described.

**74,917.—FOLDING CRADLE.**—Charles Klein, Albany, N. Y.  
I claim the sections, B, B, bottom, C, rockers, A, A, and end pieces, D, D, when the several parts are hinged together, as specified for the purposes set forth.

**74,918.—TWEER.**—Hugh Laird, Mechanicsburg, Pa.  
I claim the combination of air chamber, A, valve recess, G, valve, H, plug, C, and lever, D, arranged substantially as described.

**74,919.—WASHING MACHINE.**—Alford Lamb, Jeffersonville, N. Y., assignor to himself, William H. Morse and Mary E. Layman.  
I claim the auxiliary spring bottom, B, india-rubber strip, C, and fluted roller, D, all arranged substantially as and for the purpose described.

**74,920.—ROCKING CHAIR.**—James Lamb, Hubbardstown, Mass.  
I claim the arrangement as well as the combination of the middle or zigzag and the side or leaf springs with the chair seat and base, substantially as described the whole being to operate as explained.

**74,921.—HARNESS PAD PRESS.**—G. W. Lawbaugh, Geneseo, Ill.  
I claim the combination of the bottom plate, A, stirrup, C, screws, d, d, top plate, B, and screw, F, constructed and arranged in the manner herein as shown and described, and for the purposes set forth.

**74,922.—HORSE RAKE.**—Ellis Luther, West Troy, N. Y.  
I claim, 1st, The block, G, and cradle, P, in combination with each other and with the head of the rake, substantially as hereinbefore described and set forth.  
2d, The combination of the dog, b, and the hook, c, with the cradle, P, substantially as hereinbefore described and set forth.  
3d, The combination of the arm, N, with the cradle, P, and the lever, J, substantially as hereinbefore specified and set forth.  
4th, The combination of the cradle, P, with the dog, b, and axle, A, substantially as hereinbefore specified and described.  
5th, The lever, J, the arm, N, the cradle, P, the hook, c, the hooked lever, a, and the spring, d, all arranged and combined substantially as and for the purposes hereinbefore described and set forth.  
6th, The combination of the cradle, P, with the chain, o, substantially as hereinbefore stated and set forth.

**74,923.—MACHINE FOR SHEARING YARN.**—Caroline L. Luton, Philadelphia, Pa., administratrix of the estate of E. T. C. Latton, deceased.  
I claim, 1st, The combination of the revolving blades, h, the knife, D, and a plate or projection, m, between which and the knife the yarn is caused to travel, e, all substantially as described.  
2d, The combination of the above with the guiding plate, E, and revolving tubular spindle, H.

**74,924.—HORSE RAKE.**—William McCord, Sing Sing, N. Y.  
I claim the radius arm, c, made adjustable on the rake head, C, and operating in combination with said rake head, substantially as and for the purpose set forth.

**74,925.—SPRING FOR RELAY MAGNET.**—William N. McInnis, Northumberland, Pa.  
I claim the construction of the irregularly and loosely coiled steel spring, C, when attached to and combined with the winding axle, B, and the armature, G, as herein described and for the purposes set forth.

**74,926.—RAILWAY SWITCH STAND.**—Alexander McLeod, Covington, Ky.  
I claim the arrangement of stand, A, A', a', target, C, C', switch bar, D, lever, E, shot bolt, F, F', pedal, H, and spring, G, or weight, J, as and for the purpose set forth.

**74,927.—STARTING CARS.**—John McMurtry, Lexington, Ky.  
I claim, 1st, The beam, c, when provided with slots, d, d, and rack, b, operating substantially as and for the purpose set forth.  
2d, The combination of the beam, c, with pins, s, in combination with beam, c, substantially as described.  
3d, The spring, e, in combination with pins, t, and beam, c, operating substantially as specified.  
4th, The cog wheel, H, and double acting pawl, q, in combination with disk, J, arranged substantially as and for the purpose described.  
5th, The combination of the crank, f, f, and pinions, n, n, in combination with beam, c, operating substantially as and for the purpose specified.  
6th, The brake, g, provided with a slot and spring, m, in combination with friction wheels, f, f, and pinions, n, n, as and for the purpose specified.

**74,928.—CORN HARVESTER.**—Q. F. Messinger, Easton, Pa.  
I claim, 1st, The rotating wheel, K, with its pins, l, in combination with the cutters, the bar, L, or its equivalent, and with a platform, s, connected to the rear of the machine so as to be adjustable laterally for the purpose described.  
2d, The platform, R, consisting of a series of plates, n, in combination with the devices herein described, or the equivalent of the same for operating the said platform, R, for the purpose set forth.  
3d, The arrangement of the bent bar, M, and the wheel, K, as and for the purpose set forth.

**74,929.—HARVESTER RAKE.**—Lewis Miller, Akron, Ohio.  
I claim the combination of two revolving telescopic arms, turning upon a center arranged on the platform at a, one of which carries a fork or rake, and is caused to slide on the other by means of a roller or guide traversing a cam path or way, D, formed by two raised marginal ledges, c, c, also on the platform, and surrounding the center, a, substantially as and for the purpose described.

**74,930.—STEAM GENERATOR.**—Marcus Neumann, New York city, Valdemar F. Lassoe, Brooklyn, and C. W. Mac Cord, New York city.  
We claim, 1st, A steam generator, provided or fitted with vessels, L, forming the enlargements, arranged one above the other, and containing draft deflectors, M, in combination with water courses or generator-dividing plates, K, situated below the vessel, L, and the purpose outlets or openings, I, in such manner as that water injected into said vessels, or the upper one thereof, is converted into steam in its passage over them and the dividing plates, by the return given to the smoke and heated gases beneath and over the deflectors, substantially as specified.  
2d, The combination of a sprinkler or feed water distributor, t, with the fine enlargements or vessels, L, containing deflectors, M, and water courses or generator-dividing plates, K, provided with escape outlets, I, for operation together as herein set forth.  
3d, The combination, with the superheater, F, and arch, E, of the fire-box or chamber, of the cold air passage, f, arranged to communicate with the main or central flue, and controlled or supplied by suitable inlets from the outside, essentially as described.  
4th, The feed water heater, H, arranged essentially as specified, and fitted with one or more fine enlargements or vessels, L, containing deflectors, M, for operation in combination with a feed water sprinkler, s, or distributor, as herein set forth.  
5th, In combination with a steam generator and separate heater, the automatic pressure regulator, interposed between the generator and superheater, and operated to supply the latter with steam on the pressure in the generator exceeding that in the superheater, as herein set forth.

**74,931.—COMBINATION OF LIFE-PRESERVING AND SWIMMING APPARATUS.**—Halvor Olsen, San Francisco, Cal.  
I claim the combined use and application of the floats, and the extended

ribbed and webbed gloves and sandals, constructed and attached to the user in the manner and for the purpose herein described and represented.

**74,932.—BALLOT BOX.**—Jesse P. Outcalt, Lancaster, Ohio.  
I claim, 1st, The double spiral hopper, by which the balls are kept separate and conveyed to the tumblers in the manner described.  
2d, The crescent-shaped tumblers, by means of which the balls are taken separately from the hopper and deposited in the drawer, as set forth.  
3d, The spring, H, in combination with the slide, and tumbler for retracting the same, as set forth.

**74,933.—MOSKETO CANOPY.**—Isaac E. Palmer, Hackensack, N. J.  
I claim the operating cord and holding stem, secured to the braces, D, and arranged to work through the tubular socket, A, of the ribs, B, whereby the canopy may be expanded from the exterior thereof, substantially as herein shown and described.

**74,934.—HORSE HAY FORK.**—Nelson Palmer, Albany, N. Y.  
I claim, 1st, The combination of the tines, a and a', the braces, d and d', and the handle, b, when constructed and arranged substantially as and for the purpose set forth.  
2d, The combination of the tines, a and a', and braces, d and d', the handle, b, the catch, g, and the roller, l, when constructed and arranged substantially as and for the purpose set forth.  
3d, The catch, g, constructed and pivoted as described, so as to be locked by the action of the roller, l, against the catch, g, below its pivot, substantially as described.  
4th, The roller, l, constructed as described, in combination with a catch substantially as and for the purpose set forth.

**74,935.—PROCESS OF SEPARATING COLORING MATTER FROM Madder and OTHER PLANTS.**—Alfred Paraf, Boston, Mass.  
I claim the compound process of liberating the coloring matter of plants from the ligneous matter by the solution of the cellulose, and the separation of the coloring matter from the insoluble compounds formed during the said solution, substantially as before set forth.  
Also, the compound process of liberating the coloring matter of plants from the sugary and ligneous matters thereof by the removal of the sugary matter, the solution of the cellulose, and the separation of the coloring matter, substantially as before set forth.

**74,936.—COMBINED BOILER AND HOT-AIR REGISTER.**—B. B. Perkins, Chestertown, Md.  
I claim, in connection with a boiler, arranged at the top or side of hot air flues in houses, the combination and arrangement of the perforated boiler top with the perforated cover, F, pivoted at f, the connecting rod, H, and the register, B, when the parts referred to are constructed and arranged substantially in the manner and for the purposes set forth.

**74,937.—COFFEE-MAKING APPARATUS.**—Julius Petsch, Hanover, Prussia, and Stephen N. Buynitzky, St. Petersburg, Russia.  
We claim, 1st, A coffee-making apparatus, constructed with the shell, A, partition, B, strainer, D, and tube, C, or the equivalent of these parts, to operate in the manner set forth, and provided with the minute vent holes, c, through the partition, B, substantially as and for the purpose set forth.  
2d, The coffee-making apparatus, constructed with a shell, A, partition, B, strainer, D, and tube, C, or the equivalent of these parts, in combination with the stand, E, or its equivalent, to support the said apparatus upon trunnions, as and to the effect set forth.  
3d, The coffee-making apparatus, as set forth in the next preceding claim, in combination with a device to extinguish the heating flame, substantially as described.  
4th, The signal bell, n, in connection with and operated by the coffee-making apparatus set forth in the second preceding claim, substantially as described.

**74,938.—LOOM.**—William J. Quinn (assignor to Furbush & Gage), Philadelphia, Pa.  
I claim, 1st, The combination, with a drop-box, of a series of self-adjusting plates or cross pieces, o, o1, o2, whereby the threads of the shuttles above that in operation are held above the fingers of the wet fork, substantially as and for the purpose specified.  
2d, The wet fork, provided with a recess, x, formed between the rod, m, and fingers, n, as and for the purpose specified.

**74,939.—CAR WHEEL.**—John Raddin, Lynn, Mass.  
I claim, in combination with the web, a, the sectional hub, c, c', and the bolts, g, constructed and arranged as shown and described, the elastic packing, h, and the bolts, substantially as and for the purpose set forth.

**74,940.—MEDICAL COMPOUND OR BITTERS.**—G. V. Rambaut, Petersburg, Va.  
I claim the compound made of the materials and substantially as herein described and for the purpose set forth.

**74,941.—CHURN.**—John B. Raynor, Mazo Manie, Wis.  
I claim the shaft, C, provided with a series of straight arms, H, H, when arranged in combination with the box, B, having a series of rods, I, I, in the manner and for the purposes set forth.

**74,942.—MACHINE FOR GRINDING REAPER KNIVES.**—Chas. Richardson, Auburn, N. Y.  
I claim, 1st, Making the top piece of the swing-frame, H, to which the cutters are fastened when the knives are to be ground, adjustable, and using the same in combination with the adjustable grindstone, in the manner and for the purpose substantially as described.  
2d, A fixing the water tank or reservoir, P, to one of the standards which support the grindstone, so that the same shall at all times hang directly under said stone, and using the same in combination with an adjustable grindstone hung upon a movable plate or disk, substantially as and for the purpose described.

**74,943.—CHURN.**—W. C. Robinson, Saltsburg, Pa.  
I claim the dasher, H, composed of the perforated hollow cone, D, the frame, F, the cylinder, E, and the disk, G, as and for the purpose specified.

**74,944.—UMBRELLA.**—Edmund F. Schreiner, St. Louis, Mo.  
I claim an umbrella provided with a channel or conductor, secured to its lower outside edge, substantially as described.

**74,945.—TABLE CASTER.**—Daniel Sherwood, Lowell, Mass., assignor to Woods, Sherwood & Co.  
I claim a new and improved article of manufacture, a table caster, consisting of the parts a, b, c, etc., constructed substantially as described.

**74,946.—ARTIFICIAL WINE.**—John F. Seibenmann, Milwaukee, Wis.  
I claim the production of wine from the ingredients, and by the process substantially as herein described.

**74,947.—MEAT CUTTER.**—John E. Smith, Buffalo, N. Y.  
I claim, 1st, The combination of the central shaft C, the cutting knives E, E, and the spring, I, or its equivalent, substantially as and for the purposes herein described and set forth.  
2d, The double eccentrics U and U, the bars or spring catches W and X, or the equivalent thereof, and the lever, V, and P, when constructed and arranged substantially as and for the purposes described.

**74,948.—MACHINE FOR SEWING BOOKS.**—David M. Smyth, Orange, N. J., assignor by mesne assignments to John T. Lary, New York city.  
I claim the combination of the needles with hooks at one end and eyes at the other, the needle or its equivalent with an eye at the upper end, and the traveling hook, the said combination having a mode of operation substantially as and for the purpose specified.  
Also, the needles with a hook at one end for retaining the interlocking thread and an eye at the other for locking threads, substantially as and for the purpose described.

**74,949.—WASHING MACHINE.**—Daniel E. Somes, Washington, D. C.  
I claim, 1st, The wheel and cylinder, as described, when operated together, substantially as and for the purpose set forth.  
2d, The inclined floor of the box, I, in combination with the wheel and cylinder, substantially as and for the purpose set forth.  
3d, The combination of the box, wheel and cylinder, with or without netting or gauze, as and for the purpose set forth.  
4th, The wheel or rock shaft, in combination with the cylinder with means for heating the suds or generating steam, substantially as and for the purpose set forth.  
5th, A washing machine substantially as described, with means for heating the suds and generating steam, in combination with a safety valve attached to said machine, substantially as and for the purpose set forth.

**74,950.—HOSE COUPLING.**—Joseph Steger, New York city.  
I claim the teeth a, b, and set screw, c, or its equivalent, in combination with the two half couplings A, B, constructed and operating substantially as and for the purpose set forth.

**74,951.—RAILWAY SWITCH.**—Wm. J. Stowell, Baltimore, Md.  
I claim, 1st, The arrangement of the switch rail sections A' and B' between the turnout rail B, and the main track rail A, the former being laid so as to overlap the fixed main rail A, substantially as described.  
2d, The spring, b, or its equivalent, interposed between the rail B, and lever D, in combination with the connecting rod a, and switch sections A' B', substantially as described.  
3d, A railroad-rail switch, constructed and operating substantially as set forth.

**74,952.—MECHANICAL MOVEMENT.**—William R. Swinnerton, Feoria, Ill.  
I claim, 1st, The lever E, with its arms K, and all equivalents of the same, constructed and operating substantially as and for the purposes specified.  
2d, In combination with lever E, the slotted wheel as described, and the shafts L and G, constructed and operating substantially as set forth.  
3d, The mode of adjustment and arrangement of the shafts L and G, herein set forth, in such manner that their relative distance from each other shall correspond to about one fourth the diameter of the wheel.  
4th, The combination and arrangement of the various parts herein described and shown, for the purpose of producing accelerated speed in machinery.

**74,953.—HAT RACK FOR SEATS.**—Philo Sylla (assignor to himself, Wm. F. Sylla and Edwin H. Sylla), Elgin, Ill.  
I claim the combination of the forked rack F F G, vertical pivot H, and support C D E, substantially as and for the purposes set forth.

**74,954.—CHURN.**—John Tingley, Philadelphia, Pa., assignor to Philadelphia Wood and Hollow Ware Manufacturing Company.  
I claim the inclined diaphragm, arranged diagonally in the vessel, and held in place by the detachable cover h, all substantially as set forth.

**74,955.—CHURN.**—Jose Toll, Locust Grove, Ohio.  
I claim, 1st, The arrangement of the three oppositely reciprocating dashers B B' B'', stems C C' C'', cross head D, double crank I J J', and pitmen K L, for the purpose set forth.  
2d, The perforated and vertically adjustable frame M M', socket N, and pins O O', for the object explained.

**74,956.—BRICK MACHINE.**—Benj. Van Vranken, Schenectady, N. Y.  
I claim, 1st, The spring catch g4, r, and g3, and rock shaft g1, for holding up one end of table E, in combination with the arm w, and press box section J' arranged so as to operate substantially as described.  
2d, Depressing the mold box table E, by an outward pressure of a hinged

section, J', or its equivalent, applied to the press box substantially as described.

33. The application of a self-releasing follower to the mold box table E, substantially as and for the purposes described.

34. Providing for a parallel adjustment of the bar K, by means of screws and pinion-springs, substantially as described.

74,957.—RICE PLANTER.—Elijah Wagoner, Westminster, Md., assignor to himself and G. W. Mathews.

1. I claim 1st, The plow, E, when constructed in the form described, and provided with the incine e, and guards, e' e', substantially as and for the purpose set forth.

2d, Connecting the coverer to the plow by a double joint h, as and for the purpose described.

3d, The coverer H, when constructed in the form described, and provided with the concave-forme e, and a corrugated under surface, substantially as and for the purpose specified.

4th, The rod G, passing from the plow through the arm F, and provided with a screw and nut, by which inclination of the plow can be adjusted, substantially as specified.

5th, Constructing the seed conductors of the funnel form sections I I I, connected by straps l, substantially as and for the purpose specified.

6th, The combination of the latter N, slide O, and roller K, substantially as and for the purpose indicated.

7th, The markers R R, when attached to the machine, and operating substantially as and for the purposes set forth.

8th, The arrangement herein described of a hoe and trencher outside of each of the supporting wheels.

74,958.—SALINOMETER POT.—Henry Wanklin, United States revenue steamer Wilderness.

I claim a salinometer, in which the specific gravity of the water is determined or measured by its pressure on a movable piston, substantially as and for the purpose set forth.

74,959.—FEED WATER HEATER.—George I. Washburn, Worcester, Mass.

I claim 1st, The combination with the condenser C, arranged between the reservoir and pump of the surface condenser D, fig. 1, situated between the pump and boiler, substantially as described.

2d, The arrangement of the condenser between two pumps or two ends of the same pump, substantially as described.

3d, A steam pump and condensing apparatus, constructed and arranged substantially as hereinafter described.

74,960.—BLANK FOR HOE.—Hervey Waters, Boston, Mass.

I claim a blank for shovels, hoes, etc., made substantially as shown and described.

74,961.—BORING FAUCET.—Alfred Weed, Boston, Mass.

I claim a tapping faucet having a combined valve and bit, arranged to operate substantially as set forth.

74,962.—SHOE.—Martin Wesson, Springfield, Mass.

I claim, as a new article of manufacture, a shoe, the upper whereof is composed of a woven or knit fabric, and having the "quarter" and the "knap" of such upper, or either of them, formed of a web which is woven or knit of paper width to form the outside and the lining in one piece, whether such web is made tubular or flat, or with the lining attached to the outside by tying or connecting, substantially as set forth.

74,963.—CONCRETE PAVEMENT.—Wells H. White, Troy, O.

I claim concrete pavements composed of the materials, and laid hot, and then rolled with a hot roller, substantially as set forth.

74,964.—PREPARING SCHOOL SLATES.—Lawrence Wiegel, Joseph Lehnbeuter, and Charles Fezgers, Cincinnati, Ohio.

We claim an artificial slate made with a composition of liquid caoutchouc, asphaltum, and pulverized pumice-stone reduced to a thin paste with spirits of turpentine and applied to pasteboard by means of rollers, all substantially as and for the purpose specified.

74,965.—CORN SHELLER.—John R. Wilbur, Chicopee, Mass.

I claim, 1st, The V-shaped ribs, k, in combination with teeth or points, l, on the face of the cylinder, A, and bonnet, B, constructed substantially as described and for the purposes set forth.

2d, The crank, H, and shaft or arm, E, in combination with the hopper, D, constructed as described and for the purposes set forth.

74,966.—CORK PULL.—David Williamson (assignor to James Williamson), New York City.

I claim the cork drawer formed with a mortise, containing the sliding and pivoted cross bar, with its catch, and the spring for moving the bar crosswise to the mortise, substantially as specified.

74,967.—CLAY WASHING AND STONE SEPARATING MACHINE.—Elihu Wilzinski, Chicago, Ill.

I claim the tank, A, provided with partition, B, beater, M, and sliding gate F, with strainer, G, the whole constructed and operating substantially as and in the manner herein set forth, forming the clay washing and stone separating machine.

74,968.—ATTACHMENT FOR HOT AIR REGISTER.—James D. McBride, Mansfield, Ohio.

I claim in combination with an attachment for a hot air register, the water vessels, B and D, arranged in the manner and substantially as herein described.

Also the stand, F, when used for the purpose and in the manner substantially as herein set forth.

Also the combination of the several parts, A B C D E and F, for the purpose and substantially as herein described.

74,969.—RAILROAD CAR STOVE.—A. P. Winslow, Cleveland, O.

I claim, 1st, The water chamber or tank, B, and perforated water pipe, D, in combination with a railroad stove, substantially as and for the purpose set forth.

2d, The guards, a, in combination with a stove, substantially as and for the purpose set forth.

REISSUES.

2,874.—LAMP.—Chas. W. Cahoon, Portland, Me. Patented Dec. 3, 1861.

I claim, 1st, A lever with chimney fastenings, having that part of it on which the chimney rests extended, so as to form a deflector, substantially as described.

2d, The deflector, broad, flat-shaped, or nearly so, when filling the interior of the chimney, and combined with an air screen and ring with standards, substantially as and for the purposes specified.

3d, The combination of the said deflector with the conical foraminous piece of metal and the cylindrical tubular air screen, for the purpose of forming the air chamber, A, protecting the flame, and admitting the air from below the same, substantially as described.

4th, The combination with the lever for raising the chimney of the deflector, air screen, and foraminous piece of metal, substantially as and for the purposes specified.

5th, The ring surrounding the wick tube, a little above the top of the same, with the standards, s, s, substantially as and for the purposes specified.

6th, A chimney holder having a projection for manipulating the same, chimney fastenings, a deflector, and a joint, substantially as and for the purpose set forth.

7th, The combination of the ring, f, supports, s, s, and air screen, c, substantially as and for the purpose set forth.

8th, In combination with the burner of a lamp having a glass body, a metallic handle, as herein described.

2,875.—EYELETING MACHINE.—Wm. N. Ely, Stratford, Conn., assignee by mesne assignments of N. Ames and J. E. Gowen. Patented May 14, 1867. Division A.

I claim, 1st, A reciprocating heading seat, constructed, arranged and operated substantially as described.

2d, A reciprocating piston or holding pin, in combination with the heading seat, when constructed, arranged, and operated substantially as described.

3d, A spring piston rest, in combination with the reciprocating heading seat and holding pin, arranged and operated substantially as described.

4th, The reciprocating heading seat and piston, in combination with a vertical header, arranged and operated substantially as described.

5th, A reciprocating heading seat, in combination with a header and work supporting table, substantially as described.

6th, A heading seat, header, and work supporting table, in combination with a work feeding device, substantially as described.

2,876.—EYELETING MACHINE.—Wm. N. Ely, Stratford, Conn., assignee by mesne assignments of N. Ames and J. E. Gowen. Patented May 14, 1867. Division B.

I claim, 1st, A common receptacle or hopper, adapted and arranged for holding the eyelets when thrown in promiscuously, substantially as described, in order that they may be automatically discharged therefrom and delivered in proper position to the heading mechanism, for the purposes set forth.

2d, Agitating the eyelets so as to present them in proper position to the eyelet feeding mechanism, substantially as described.

3d, A promiscuous eyelet holding hopper, provided with means for delivering the eyelets in proper position, an eyelet feeding mechanism, and an eyelet heading mechanism, when combined and operating substantially as described.

4th, In combination with the above, a work supporting table, substantially as described.

5th, In combination with the element of the third claim and a work supporting table, a work feeding device, for the purposes described.

2,877.—EYELETING MACHINE.—Wm. N. Ely, Stratford, Conn., assignee by mesne assignments of N. Ames and J. E. Gowen. Patented May 14, 1867. Division C.

I claim, 1st, A reciprocating punching table, constructed and arranged so as to be alternately removed and replaced, substantially as described.

2d, The reciprocating puncher, in combination with the reciprocating punching table, substantially as described.

3d, The combination of a puncher, a work holding table, and a work feeding device, substantially as described.

4th, The combination of a puncher and gage for the line of holes, substantially as described.

2,878.—EYELETING MACHINE.—Wm. N. Ely, Stratford, Conn., assignee by mesne assignments of N. Ames and J. E. Gowen. Patented May 14, 1867. Division D.

I claim, 1st, The combination of a puncher and header with a movable punching table, substantially as described.

2d, The combination of puncher, header, work supporting table, and work feeding device, substantially as described.

3d, An organized eyeleting machine, in which the works supported and fed along, the holes punched, the eyelets supplied, inserted, and headed down, substantially as described.

2,879.—EYELETING MACHINE.—William N. Ely, Stratford, Conn., assignee by mesne assignments of N. Ames and J. E. Gowen. Patented May 14, 1867. Division E.

I claim, 1st, A puncher and header operating reciprocally, when combined, arranged and operating so as to strike alternately on or over the same fixed point, substantially as described.

2d, A reciprocating heading seat in combination with the puncher and header, when arranged and operating at the same fixed point, substantially as described.

3d, A laterally reciprocating punching table in combination with the puncher, header and heading seat, all arranged and operating at the same fixed point, substantially as described.

4th, The reciprocating punching table and heading seat so combined, arranged and operating as to alternately occupy the same place for punching holes and heading eyelets at the same fixed point, substantially as described.

5th, Supplying the eyelets from a common hopper to the heading seat or holding point by a belt and groove, substantially as described.

6th, The work-feeding device, constructed and arranged with an eyeleting machine, substantially as described.

7th, The adjustable gage in combination with the holding table for regulating the line of eyelets, substantially as described.

8th, Punching the holes and furnishing, inserting and heading the eyelets at the same time, substantially as described.

2,880.—EYELETING MACHINE.—William N. Ely, Stratford, Conn., assignee by mesne assignments of N. Ames and J. E. Gowen. Patented May 14, 1867. Division F.

I claim, 1st, The combination of hollow rod, J, and lever, I, arranged and operating substantially as described.

2d, The combination of hollow rod, J, and piston, K, arranged and operating substantially as described.

3d, The combination of hollow rod, J, piston, K, and lever, I, arranged and operating substantially as described.

4th, The combination of rod, J, piston, K, spring, P, and lever, I, arranged and operating substantially as described.

5th, The combination of rod, J, piston, K, lever, I, and header, C, arranged and operating substantially as described.

6th, The combination of hopper, N, with eyelet-feeding mechanism and rods, J and K, and header, C, substantially as described.

7th, The combination of puncher, B, and sliding plate, U, substantially as described.

8th, The combination of plate, U, and levers, V and I, substantially as described.

9th, The combination of puncher, B, header, C, sliding plate, U, and rods, J and K, substantially as described.

10th, The combination of puncher, B, header, C, plate, U, rods, J and K, hopper, N, belt, R, and groove, X, substantially as described.

11th, The combination of table, U, and pawl, Y, substantially as described with the set, or punch and set, of an eyelet machine.

12th, The combination of hopper, N, with bristles or flexible arms, o, substantially as described.

2,881.—BASE BURNING STOVE.—Dennis G. Littlefield, Albany, N.Y. Dated August 13, 1863. Reissue 1,594. Dated December 22, 1863.

I claim, 1st, The devices described by means of which the magazine and each of its several sections of which it is composed are held in their proper positions while at the same time the several parts are so adjusted as readily to admit of being separated and reunited at pleasure.

2d, The corresponding notches or shoulders in the iron cylinder and the lining as described by means of which the lining is held in its place, notwithstanding the greater expansion of the cylinder by heat and without danger therefrom.

3d, The magazine, constructed as described, in combination with the furnace separated from it and suspended within a chamber isolated from the chamber surrounding the magazine.

4th, The combination of a magazine contracting in diameter from the middle or other part toward its ends and with a furnace suspended within a chamber isolated from the chamber surrounding the magazine.

5th, The devices described by means of which I am able to construct what I denominate the upper and lower sections of the burner, each complete in itself separately and so to adjust them as to admit of their being conveniently separated and reunited without injury to either.

6th, The intercommunication to be opened and closed at pleasure between the chamber of a magazine coal burner which surrounds the furnace and that which surrounds the magazine.

2,882.—LAMP.—Wm. N. Ely, Stratford, Conn., assignee by mesne assignments of L. Bailey and R. Thayer. Patented May 1, 1858.

I claim, 1st, Suspending the body of the lamp within an outer case, so arranged that the air shall pass within the case and around the lamp body to the flame, substantially as described.

2d, A hollow lamp case, pedestal, and base, constructed and arranged in relation to the lamp body substantially as described.

3d, An annular lamp body in combination with an outer case, substantially as described.

4th, Constructing and arranging the parts so as to deflect the air coming up from outside the lamp body toward the flame, substantially as described.

5th, Supplying air to the flame by means of the channel formed between the body of the lamp and the outside shell or case, substantially as described.

6th, Arranging and using the rod or wire, K, in relation to the flame and hollow pedestal and outer case, substantially as and for the purposes described.

7th, The concavo-convex button constructed and arranged substantially as and for the purpose described.

2,883.—TUMBLER WASHER.—John Solter, Baltimore, Md. Patented Sept. 4, 1866.

I claim, 1st, In a tumbler washing machine, operating the valve, e, by pressing the tumbler, in seating it, in the manner as shown and described and for the purpose set forth.

2d, The combination of the lever, K, and valve, e, constructed and operated in the manner substantially as shown and described and for the purpose set forth.

2,884.—HAY KNIFE.—Philo O. Soper, San Francisco, Cal. Patented Jan. 29, 1867.

I claim, 1st, The construction of the blade, B, substantially as described.

2d, The bearing of the shank, C, in connection with the angle given to the edge of the blade, B, substantially as and for the purpose specified.

3d, The point, A, substantially as and for the purposes above described.

2,885.—LAST.—Ambrose Taylor, Osawatomie, Kansas. Patented Nov. 5, 1867.

I claim, 1st, The spring hook, E, secured by its shank, F, in the block, B, and engaging with the hook, C, set in the last, A, all constructed and arranged to operate as herein set forth, for the purpose specified.

2d, The prevention of lateral or backward movement of the block, B, by having the hook, C, extend upward above the surface of the upper side of the last, and within a recess in the under surface of the block, B, substantially as shown and described.

DESIGN.

2,940.—CLOCK FRONT.—Amos Wilder and Cyrus W. Strout, Boston, Mass.

NOTE.—FIFTY-SIX patents in the above list were obtained through the Home Office of the Scientific American Patent Agency.—Eds.

PENDING APPLICATIONS FOR REISSUES.

Application has been made to the Commissioner of Patents for the Reissue of the following Patents, with new claims as subjoined. Parties who desire to oppose the grant of any of these reissues should immediately address MUNN & Co., 37 Park Row, N. Y.

59,395.—HAND STAMP.—B. B. Hill, Chicopee, Mass. Dated Nov. 6, 1866. Reissue No. 2,836. Dated Jan. 14, 1868. Application for reissue received and filed Feb. 3, 1868.

1st, I claim, in combination with the type wheel or wheels and inked ribbon of a hand stamp, a series of characters arranged in a circle concentric with the face or periphery of the type wheel and revolving with and always occupying the same relative position to the characters upon the printing face of said type wheel for the purpose of indicating to the operator the figures or characters to be stamped, substantially as described.

2d, I claim the base, G, having the projecting rim, U, and the axis pin, a, and the race plate, P, the whole forming a wheel case or protection for the type wheels, when constructed and arranged substantially as herein described and set forth.

3d, I claim the wheels, KK', arranged upon the same axle with the wheels, I, J, in combination with a hand stamp, arranged and operating substantially as described.

4th, I claim the bracket, H, made on or secured to the case, G, having a step, C, or its equivalent, to enter the lower end of the spindle, and orifice for the screw, e, for attaching and detaching said case to the spindle, E, substantially as and for the purpose described.

5th, I claim the flange, K, in combination with the chase, L, for the purpose of easily and quickly attaching the type plate to or detaching it from a hand stamp, when constructed and operating substantially as herein described.

59,388.—MEDICAL VACUUM CHAMBER.—George Hadfield, Cincinnati, Ohio. Dated Nov. 6, 1866. Application for reissue received and filed Feb. 3, 1868.

I claim the employment of a hand support or rest, substantially as and for the purposes set forth.

I also claim the sealing cap, F, substantially as and for the purposes set forth.

39,043.—FIRE GRATE.—W. D. Guseman, Morgantown, West Va. Dated June 30, 1863. Application for reissue received and filed Feb. 8, 1868.

1st, I claim the sliding blower or screw in combination with the grate, for the purpose specified.

2d, The damper in combination with the flue, sliding blower or screen and grate, all arranged substantially in the manner as and for the purpose set forth.

54,662.—RAILWAY CAR.—E. H. Ashcroft, Lynn, Mass. Dated May 15, 1856. Application for reissue received and filed Feb. 11, 1868.

I claim a safety car constructed with a water space with one or more showering pipes and a fusible plug apparatus, arranged substantially in manner and so as to operate with respect to the car chamber, as specified.

I also claim, in combination with a water space, substantially as herein set forth, a heating apparatus and circulating pipes, whereby the water shall be caused to circulate substantially upon the principle as herein set forth.

NOTE.—The above claims for Reissue are now pending before the Patent Office and will not be officially passed upon until the expiration of 30 days from the date of filing the application. All persons who desire to oppose the grant of any of these claims should make immediate application.

EXTENSION NOTICES.

Thomas A. Steadman, administrator of the estate of Thomas S. Steadman, deceased, of Lyons, Mich., having petitioned for the extension of a patent granted to the said Thomas S. Steadman the 23d day of May, 1854, and reissued in three divisions the 19th day of June, 1860, respectively numbered 985,986, and 987; No. 985 was again reissued the 5th day of June, 1866, and numbered 2,279, and No. 987 was again reissued the 20th day of June, 1866, and numbered 2,009; for an improvement in clover and grass seed harvesters, for seven years from the expiration of said patent, which takes place on the 23d day of May, 1868, it is ordered that the said petition be heard at the Patent Office on Monday, the 4th day of May next.

Frederic Howes, of Boston, Mass., having petitioned for the extension of a patent granted to him the 30th day of June, 1854, for an improvement in extra yard to topsails, for seven years from the expiration of said patent, which takes place on the 20th day of June, 1868, it is ordered that the said petition be heard at the Patent Office on Monday, the 1st day of June next.

George T. Bigelow, administrator of the estate of Samuel Nicolson deceased, of Boston, Mass., having petitioned for the extension of a patent granted to the said Samuel Nicolson the 8th day of August, 1854, for an improvement in wooden pavements, for seven years from the expiration of said patent, which takes place on the 8th day of August, 1868, it is ordered that the said petition be heard at the Patent Office on Monday, the 6th day of July next.

NEW PUBLICATIONS.

LAW REGISTER AND OFFICIAL DIRECTORY. Merchants' Law Company, publishers, No. 128 Broadway, N. Y.

For lawyers, collectors, and business men of almost all other professions, the Directory just issued is of great importance. It contains the names and residences of over 85,000 lawyers and public officers, and has the following interesting statistics: Of the lawyers (37,296) and of the officials (48,350) whose names are contained in this work, 2,960 of the former are on the retired list and 2,350 occupy judicial positions, which leaves 31,986 in actual practice. It is estimated that the earnings of each average \$2,000 per annum, making a total expenditure for law in this country of over sixty-three million dollars a year. The work contains over 1,000 pages, is published in law binding style, and will be found a useful work for reference to all classes of business persons.

ATLANTIC MONTHLY. Ticknor & Field, Boston. March number just out.

GALAXY. W. C. & F. P. Church, 39 Park Row, New York. Monthly. Price \$3 30. March number just issued.

THE BROADWAY MAGAZINE. Geo. Routledge & Sons, 416 Broome street, N. Y. Price \$3 a year. March number just issued.

Advertisements.

RATES OF ADVERTISING.

Back Page.....\$1.00 a line.

Inside Page.....75 cents a line.

Engravings may head advertisements at the same rate per line, by measurement, as the letter press.

WANTED—AGENTS—To Sell Dr. WM. SMITH'S BIBLE DICTIONARY.

The Cheapest and the Best. See that the Work you get contains over 1000 pages. Agents are doing a Splendid Business with this work. To those who want the Small London Edition, from which the "Juvenile American Edition" (an important work) has been copied, will be furnished in March at \$2 75 a copy, 75 cents less than the American Edition. For full particulars, send for circulars.

S. S. SCRANTON & CO., 126 Asylum st., Hartford, Conn. 11 4

ENGINE LATHES, HAND LATHES, and FOOT LATHES. Also, Tapping Machines, and Small Tools of the best design and first-class workmanship. FLATHER & CO., No. 11 River st., Nashua, N. H. 11 3 eow

THE MONEY, INCLUDING COST OF Transportation, refunded if our Machinery Oil, at about one third the price of lard oil, will either gum or chill, or not prove satisfactory to the purchaser. J. C. MOORE & CO., 56 North 2d st., Philadelphia, Pa. 11 4

LABORATORY OF INDUSTRIAL CHEMISTRY.

Advices and Consultations on Chemistry applied to arts and manufactures, agriculture, metallurgy, etc. Informations on the following fabrications, with drawings of apparatus: Soaps, caustics, oils, varnishes, petroleum, inks, matches, varnishes, colors, dyeing, calli-co printing, liquors, bleaching, etc. Commercial assays in general. Address Prof. H. Dussauce, Chemist, New Lebanon, N. Y. 1\*

FOR SALE.

The best kind of Patented Doorsprings for sale by RUDOLPH SCHRADER, of Indianapolis, Ind., who will, by application, furnish Model and information.

CHASE'S DOLLAR MICROSCOPE AND Bank Note Detector.

Agents wanted everywhere. Constant, steady, and profitable employment. Also, two other valuable inventions, just out. Send \$1 for sample and circular. Address O. N. CHASE, 31 Washington st., Boston, Mass., or FOWLER & WELLS, 339 Broadway, New York City. 11 4 eow

WANTED—Articles to sell on commission by an agent traveling the State of New Jersey.

Best of references given. Address C. N. TAYLOR, Cookstown, N. J. 1\*

TUBE WELLS.

Patented Jan. 21, 1868. The LATEST and BEST.—Warranted to operate where any other will work, and in hundreds of places where others will not. Territory sold by Towns, Counties, or States, for cash or saleable property. Township Rights \$25 each, which is the profit on one well of 20 feet. Individual Rights \$5 each. Address W. T. HORNER, Buffalo, N. Y. 11 7 eow

WOODWARD'S COUNTRY HOMES.

150 designs and plans. \$1 50 post paid. GEO. E. WOODWARD, 191 Broadway, New York. Send stamp for priced Catalogue of all new books on 110 tf

ARCHITECTURE.

TO PAPER MEN.