



ISSUED FROM THE UNITED STATES PATENT-OFFICE FOR THE WEEK ENDING JUNE 14, 1864. Reported Officially for the Scientific American.

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43,080.—Solution for gilding China, Glass, and other Wares.—Louis P. Angenard, New York City: I claim the chemical proportion and preparation of the solution and its application to china, Dutch ware, glass ware and other potteries, as described, on the above.

43,081.—Awning.—Wm. Armstrong, Milwaukee, Wis.: I claim the awning constructed of a series of folding slats combined and operating together with a supporting frame, in the manner substantially as herein shown and described.

43,082.—Shaping the heels of Boots and Shoes.—Eben J. Beane, Providence, R. I.: I claim the combination of a cutter, substantially as described, with a ridged or gearing roller, and a yielding center stud, g, substantially as described for the purpose specified.

43,083.—Photographic Card Press.—J. B. Blair, Philadelphia, Pa. Ante-dated May 24, 1864: I claim, first, The employment in a photographic card press of a small polishing roller, U, between two larger sustaining rollers, D and E, the three being arranged so as to operate together substantially in the manner described, for the purpose specified.

43,084.—Skiff or Boat.—W. E. Bond, Cleveland, Ohio: I claim the described flat bottom skiff in two sections, A and B, of unequal lengths, and so formed that one section will pack into the other in combination with the links or connections, substantially as and for the purpose hereinbefore set forth.

43,085.—Post-hole Digger.—Jonathan Boone, Clintonville, Ky.: I claim a post-hole digger having two or more cutting blades, B, attached to a common handle, A, as and for the purpose specified.

43,086.—Portable Screw Press.—Charles D. Brand, Oak Hill, N. Y.: I claim, in combination with the adjustable bail, C, the fastening, H, when constructed and operating as herein described.

43,087.—Vegetable Boiler.—Clarissa Britain, St. Joseph, Mich.: I claim, first, A vegetable boiler constructed with a perforated flange, d, surrounding its bottom edge and openings, f f, in its side, provided with a closing gate, h, substantially as and for the purposes described.

43,088.—Dish-drainer.—Clarissa Britain, St. Joseph, Mich.: I claim, first, An apparatus for draining and drying dishes and other articles, consisting of a box, A, having a perforated inclined bottom, a, and one or more partitions, c, d, substantially as described.

43,089.—Clamp for Wringers.—Thomas Brooks, Middlefield, Conn.: I claim the employment of the oscillating jaw, D, in combination with the screws, E, and jaws, B, C, steading in place by the orifice, G, substantially as and for the purpose described.

43,090.—Steam Trap.—Charles H. Brown, Fitchburgh, Mass.: I claim my improved steam trap, having its single expansion tube, A, the valve opening, a, the valve c, the valve lever, D, the arm or fulcrum supporter E, and the lever operating rod, E, arranged and applied together substantially in manner so as to operate as specified.

43,091.—Article of Food and Diet from Cerealine.—James E. Brown, Philadelphia, Pa.: I claim the procuring of cerealine from the meal of unbranched wheat, or other grains by boiling and dissolving the same, and its manufacture in articles of food and diet, substantially in the manner and for the purposes hereinabove set forth.

43,092.—Tool for boring Butter-molds.—John S. Bulard, Chagrine Falls, Ohio: I claim the above described boring tool when constructed and applied to the purpose substantially as set forth.

43,093.—Attaching Buckles and Loops.—Lucius C. Chase Boston, Mass.: I claim attaching loops and buckles to straps by means of the metallic plate, E, and rivets, f and g, substantially as and for the purpose described.

43,094.—Corset Fastening.—Samuel Chapman, New York City: I claim a corset fastening arranged and applied with detachable mountings, substantially as described.

43,095.—Cider Mill.—Orlando Clarke, Rockford, Ill.: I claim, first, The combination of two grinding disks (one or both of which has a convex, conical grinding surface) when one of said disks rotates faster than the other, to impart a rolling motion to the fruit, as herein described.

43,096.—Quartz-crusher.—Michael Henry Collins, Chelsea, Mass.: I claim in my improved crushing and pulverizing mill, in which the rotary trough, wheels and breakers or crushers are arranged together and within case, H, as above described, the arrangement of each of the pulverizing wheel shafts K, and its rocker frame or shaft, L, and their journals and bearings, relatively to the said case, H, in manner substantially as explained, the said shaft, K, under such arrangement being made to project out of the case, H, and to have its journals and bearings and its rocker frame or shaft, L, and the journals and bearings thereof, disposed outside of the case, substantially as specified.

43,097.—Machine for making Lamp Wick.—Joseph M. Connelly, Wheeling, West Va.: I claim a machine constructed substantially as above described, for making tubular wicks with cotton or other filling, consisting of cutters for cutting the muslin or other fabric into strips of suitable width, the folding apparatus, and contrivance for inserting the cotton or other filling, the ironing cylinder, and the cutting rollers for severing from the wicking, thus made, pieces of proper length for wicks.

43,098.—Suture Instrument.—Hugh M. Cooper, Xenia, Ohio: I claim, first, The arrangement of curved shafts, A and G, guides, J, J', springs, K, K', foot, H, finger rings, I, I', knob, B, and suture needle, or devices substantially equivalent; the whole being combined and operating substantially as set forth.

43,099.—Bridge.—Albert Cottrell, Newport, R. I.: I claim the above described combination and arrangement of the bond timbers, the balance weight supporters, the screw bolts and stretchers of the two side beams or levers, the whole constituting the half of a bridge frame, of the character specified.

43,100.—Magnet Needle threader.—Oliver Cox, Washington, D. C.: I claim a magnetized needle threader.

43,101.—Reaping Machine.—Oliver Perry, Crawford, Wabashaw Co., Minn.: I claim the construction, attachment, and arrangement of the hinges, b, h, from which the swinging apron is suspended, to receive the grain, substantially as and for the purpose described.

43,102.—Bullet Machine.—J. D. Custer, Norristown, Pa.: I claim the combination of the turn-table, or transporting wheel, or analogous device, with the shears, the cylinder and pistons, and the automatic lathe, for the purpose of making pressed and turned bullets, substantially as described.

43,103.—Portable Railroad Switch.—Phylander Daniels, Leroy, N. Y.: I claim the two bars, A, A', constructed as shown and provided with the clamps, B, B', in combination with the bars, C, C', G, G', either or both pairs connected to the bars, A, A', by joints and secured in position, substantially as and for the purposes set forth.

43,104.—Spring Bed-bottom.—John and Samuel Danner, Canton, Ohio: We claim uniting and supporting the slats by means of interposed springs, upon and within the walls of the brackets, E, which brackets are removable and replaceable at pleasure, all substantially as described and represented.

43,105.—Cupboard Latch.—Edward Doen, New Britain, Conn.: I claim as a new improved article of manufacture a cupboard latch, substantially as shown and described.

43,106.—Plaited Shirt Bosom.—Abraham Drey, Baltimore, Md. Ante-dated June 5, 1864: I claim uniting the surfaced ridged or creased material to the shirting, or tack lining of the shirt bosoms, by stitching through the creases or ridges and through the lining, substantially in the manner described.

43,107.—Plaited Shirt Bosom.—Abraham Drey, Baltimore, Md. Ante-dated June 10, 1864: I claim the new process for shirt bosoms, slams, etc., substantially as herein described, producing by ridging the surface material on its inner side, and fastening such ridged material in front of the ridges to a backing, substantially as set forth.

43,108.—Manufacture of Watch Keys.—George H. Fuller, Pawtucket, R. I.: I claim making a key pipe for watch keys by the method and on the principle substantially as herein described.

43,109.—Ratchet Drill.—Henry Getty, Brooklyn, N. Y.: I claim, first, The body, A, with its interior ring or flange, a, and recess, I, for the purposes described.

43,110.—Breech-loading Ordnance.—William F. Goodwin, Powhatan, Ohio: I claim, first, A swinging yoke or breech-piece, constructed substantially as described, with cheeks, B', by which it is secured to the gun without requiring the employment of trunnions, screws, or bolts.

43,111.—Breech-loading Ordnance.—Wm. F. Goodwin, Powhatan, Ohio: I claim, first, The valve spindle, D, of a steam engine, the link, E, eccentric rod, G, and arm, F, in combination with the weighted lever, K, and link, h, or their equivalents, whereby the motion of the governor-rod may be imparted to the link, as set forth for the purpose specified.

43,112.—Artificial Fuel.—Wm. Halstead, Washington, D. C., and Oliver S. Halstead, Jr., Newark, N. J.: We claim the combination and mixture of the ingredients, in the manner and in the proportions above described.

43,113.—Clothes-dryer.—Thomas George Harold, Brooklyn, N. Y.: I claim, first, A series of folding bars, jointed to each other at the ends, and at a point nearer one end than the other of said bars, so that the frame, when it is opened, substantially as specified.

43,114.—Valve-gear for Steam Engines.—Robert Heys Philadelphia, Pa.: I claim, first, The valve spindle, D, of a steam engine, the link, E, eccentric rod, G, and arm, F, in combination with the weighted lever, K, and link, h, or their equivalents, whereby the motion of the governor-rod may be imparted to the link, as set forth for the purpose specified.

43,115.—Thread tension and Thread delivery in Braiding Machines.—Liveras Hull, Charlestown, Mass.: I claim the improved thread tension and delivery mechanism, constructed substantially as explained, or in other words, as having a brake or lever and brake, applied to the bobbin and its stand, and so to be operated by the thread and by the tension weight, substantially as specified.

43,116.—Harvester.—Stephen Hull, Poughkeepsie, N. Y.: I claim, first, The extended braces, B, B', of the wheel frame, A, so constructed and arranged as to constitute the supports for the apron, C, and also an elevated bridge, b, for the driver's seat, substantially as described.

43,117.—Material for the manufacture of Butt Hinges, etc.—Oliver S. Judah, New Britain, Conn.: I claim the substitution of the composition known as laminated zinc for other metals in the manufacture of butts.

43,118.—Medical Preparation.—John B. Knoebel, Shoal Creek, Ill.: I claim the use of an antidote for "dropsy" and allied diseases, of the preparation of the form "Hydropin," made substantially in the manner herein shown and described.

43,119.—Washing Machine.—Joel Lee, Galesburg, Ill.: I claim the friction roller shaft, D, cross bars, E, E, friction rollers, I, rub-board frame, B, rub-board, C, washing rolls, F, F, and guide grooves, H, the whole constructed and arranged substantially as and for the purposes set forth.

43,120.—Mode of treating Tanned Leather.—Benjamin H. Lightfoot, Philadelphia, Pa.: I claim the currying or dressing of tanned leather by applying to the same crude petroleum, or any of the mineral oils, treated substantially in the manner described.

43,121.—Car Spring.—William Marshall, New York City: I claim the combination of the springs, C, D, and levers, B, arranged substantially as shown, and either with or without the box, A, to operate in the manner as and for the purpose set forth.

43,122.—Washing Machine.—John McLaughlin, Monongahela City, Pa.: I claim the manner of constructing and arranging the bottom of the body, a, with relation to the rubbing follower, C, that the operator is enabled by it to turn or reverse the clothes and bring all parts of them in contact with the rubbing surface of said rubbing follower, the whole being constructed, arranged, and operating in the manner herein described and set forth.

43,123.—Cultivator.—William Mettler, Frankfort, Ill.: I claim the teeth, G, G, laterally movable bodily without angular change, in combination with fixed teeth, F, F, situated further behind and outward than the said movable teeth, arranged and operating substantially as and for the purpose herein specified.

43,124.—Pump.—John Munson, San Jose, Cal.: I claim, first, The check or retaining valve, G, fitted in the frame, H, provided with a projection, I, and arranged in relation with the valve, F, of the piston, C, and the bolts, D, thereof or other projection attached, so as to cause both valves to be opened and remain open when the piston is at the bottom of the pump cylinder and thereby admit of the escape of the water, substantially as set forth.

43,125.—Faucet.—Ferdinand Meyrose, St. Louis, Mo.: I claim a faucet provided with a valve, C, attached to a horizontal stem, D, having a screw, e, on its outer part, on which a nut, E, is fitted and the latter placed, and allowed to turn freely in a cylindrical



