



62,845.—Edge Plane for Boots and Shoes.—John C. Grunn, Peoria, Ill.: I claim the metallic box, A, the metallic block, C, the plane bit, O, the drum, D, and the covered handle, B, arranged substantially as and for the purposes set forth.

62,846.—Amalgamator.—Edw. Hamilton, Chicago, Ill.: I claim an apparatus for extracting gold and silver from auriferous and argilliferous ores, operating substantially as herein described, the arrangement of the annular receivers, discharge pipes, and receiving boxes, as and for the purpose herein set forth.

62,847.—Sewing Machine.—John Hanlon, Newark, N.J.: First, I claim the arrangement of the lever, A, having its perforated short arm, A', behind the fulcrum, I, the fixed perforated arm, B, the spring, C, and standard, D, as herein described and represented. Second, I claim the described arrangement of the needle bar, E, parts, F, F', for forming the adjustable groove, e, the disk, b, crank pin, N, and driving shaft, S.

62,848.—Car Brake.—O. J. Hardgrove, Canton, Ohio: I claim, first, constructing a car or wagon brake of two pivoted shoes, B B', which are provided with side clamps, a, a', and acted upon by means of a spring, g, in its equivalent, substantially as described. Second, the construction of each shoe, B B', with a side clamp formed on it, substantially as described.

62,849.—Watch Hand.—Geo. Hastings, Waltham, Mass.: I claim the heretofore described improved manufacture of watch of time-piece hand, having a socket tube, its heel and finger formed in one piece of metal, substantially as set forth.

62,850.—Gold and Silver Washing Apparatus.—Joshua Hendy, San Francisco, Cal.: I claim, first, the guide fingers, T, T', attached to distributor, G, working in slides, V, V', or their equivalent. Second, the riddle bars, R, R', coated with mercury, for the purpose as herein set forth.

62,851.—Harvester.—Benjamin Hess, Manor Township, Pa.: I claim the construction of the cogged cutters, B' F, substantially as specified, so that they form in themselves the links of an endless chain cutter, when said cutters are used in combination with the notched pulleys, A, A', arranged and operating as described.

62,852.—Brick Machine.—Wm. H. Hovey, Springfield, Mass. Antedated Feb. 16, 1866: I claim, first, the combination of the cam, L, knee-joint lever, G, H and G' H', connection, B, and plungers, F, F', when used in combination with a suitable feeding apparatus and frame, substantially as described. Second, the combination of the cam, T, one or more levers, S, S', suitably connected thereto, one or more cutters, O, P, and a shaft, substantially in the manner and for the purpose described.

62,853.—Mode of Sinking Wells.—Benj. J. C. Howe, Syracuse, N. Y.: First, I claim a tube to be used in sinking wells when a point or foot, B, is thereunto attached, constructed and operated substantially as herein set forth and described. Second, in a pump and well tube, the adjustable sections, A, A', in combination with the bars, B, B', and pins, c, e, when constructed in the manner and for the purpose herein described.

62,854.—Window Blind.—E. B. Hungerford, Elmira, N. Y.: I claim a window blind or ventilator slat constructed of glass, of any desired color, having the journals, C, formed thereon solid with the body of the slat, as and for the purposes set forth.

62,855.—Suspended.—I claim a closed coal hod, constructed substantially in the manner as herein set forth.

62,856.—Coal Hod.—Edwin A. Jeffery, New Haven, Conn.: I claim a closed coal hod, constructed substantially in the manner as herein set forth.

62,857.—Tassel Hook.—Albert D. Jud, New Haven, Conn.: I claim the tassel hook having the ornamental metallic washer secured to the surface of the porcelain knob by the end of the metallic arm, as a new article of manufacture.

62,858.—Water Drawer.—L. King, East Cleveland, Ohio: I claim the huts, c, and arms, d, arranged in relation to the bail, a, and in combination with the stop, B, and with or without the guide, D', as and for the purpose set forth.

62,859.—Car Wheel.—James S. Kingsland, Stryker, Ohio: I claim a car wheel cast in three separate parts, secured together as described, and consisting of the side pieces, B, C, whose central engagements form the hub for the axle and whose outer margins embrace and are bolted to the inwardly projecting flange of the rim, A.

62,860.—Bridge.—Marten Kremser, Cleveland, Ohio: I claim connecting the chords or struts of bridge to the posts, B', when constructed and arranged substantially as described, and shown in fig. 6, for the purpose specified.

62,861.—Corn Planter.—Henry D. Lansing, Hudson, Mich.: First, I claim the rear extension, F, of the tooth, D, for the purpose of retaining the tooth a certain depth in the ground, whether hard or mellow, by means of the roller and weights applied to said extension, F. Second, the manner of attaching the stalk cutters to a wheel planter, in the manner and for the purpose set forth.

62,862.—Lamp Wick.—C. W. Le Count and Samuel Chard, Norwalk, Conn.: We claim a lamp wick composed of wool, as a new article of commerce, substantially as described.

62,863.—Deodorizing Offal.—Alfred and Edwin Lister, Newark, N. J.: First, we claim treating offal, for the purpose of utilizing it, according to the processes above set forth to wit: subjecting the offal to currents of hot air and gases in closed chambers, and at the same time discharging into the furnace which supplies such currents the

gases, vapors and exhalations which are driven off from the offal substantially as shown. Second, we also claim the arrangement, substantially as above shown, of ovens, air receiving chambers, and pipes leading into and out of the same, with or without a system of fans to quicken the circulation of the ingoing and outgoing air and gases.

[The object of this invention is to purify and deodorize offal, both of organic and inorganic matter, and to get it in a condition fit to handle in whatever manufacture or process it is afterward to enter, and it consists in drying and purifying the same by a new process, in which offensive and noxious vapors and exhalations are removed or consumed by means of heat.]

62,864.—Lock.—Joseph Loch and George Bayer, New York City: First, we claim a key composed of a series of notched disks, a, and operating in combination with the handle, C, the lip, d, or its equivalent, the sliding shaft, E, cog wheel, G, bolt, H, pulley, F, tumblers, E, and notched cog wheels, J, substantially in the manner and for the purpose set forth.

62,865.—Burial Case.—John L. Lovett, John Wippich, and James Wood, Salem, Mass.: We claim the support, e, placed under the lid cover and let into the sides, substantially as and for the purpose set forth.

62,866.—Oil Well Tube Extractor.—James H. Luther, Petroleum Centre, Pa.: I claim a gripping and lifting mechanism constructed and operating substantially in the manner described.

62,867.—Clothes Wringer.—David Lyman, Middlefield, Conn.: First, I claim the spurred piece, E, in combination with the wheels, M and C', or the equivalent thereof, arranged relatively thereto and to the rollers of clothes wringing and washing machines, substantially as herein set forth.

62,868.—Device for Boring Wells.—Virgil H. Lyon, Plainfield, Ind.: First, I claim the conical screw mole, A, shaft, c, connecting chains, d and d', e, p, B, clamp, N, and cord or chain, K, when constructed, arranged and operated in the manner and for the purpose substantially as set forth.

62,869.—Manufacture of Ink for Printing Postage Stamps.—James Macdonough, New York City: First, I claim a sensitive and soluble printing ink adapted for both plate and surface printing, with glycerine, for the purpose of printing postage and other stamps and preventing the fraudulent removal of canceling marks, substantially as herein set forth.

62,870.—Guide for Sewing Machines.—James S. McCurdy, Bridgeport, Conn.: First, I claim the guide wheel, a, turning upon a pivot, e, at the end of an elastic arm or spring, c, and applied to the sewing machines, substantially as herein specified.

62,871.—Machine for Rolling up Leather.—Joseph E. Merritt, Winn, Maine: First, I claim a machine for rolling up leather constructed substantially as described.

62,872.—Toy Engine and Whistle Combined.—Willis W. Mildruun, East Berlin, Conn., assignors to J. and E. Stevens & Co., Cromwell, Conn.: I claim the middle cylinder, d, in combination with the piston, c, and its connections, i, when b, and hand, a, constructed substantially in the manner as and for the purpose specified.

62,873.—Street-sweeping Machine.—Joseph Miller, Boston, Mass.: First, I claim arranging the brushes in their section at angles to each other so as to extend from their frames in different directions when by, when the street surface to be swept they expand and spread out over a wider surface than they otherwise could.

62,874.—Tackle Block.—George Milson, Buffalo, N. Y.: First, I claim the combination of journal bearings formed in the iron straps, B, and projecting hub, G, with a sheave, H, made fast on the shaft, I, for the purpose set forth.

62,875.—Desulphurizing and Disintegrating Ores.—Daniel Minthorn, New York City: I claim the use of uncombined hydrogen at a high temperature, for the purpose of oxidizing and desulphurizing and disintegrating mineral ores by applying steam either with or without the products of combustion through a chamber containing iron turnings or other suitable absorbent of oxygen in the manner substantially as herein set forth.

62,876.—Machine for Charging Air with Hydrocarbon Vapors.—H. B. Myer, Cleveland, Ohio: I claim, first, charging and saturating atmospheric air with the vapors of the light hydrocarbon oils, substantially as and for the purpose herein set forth.

62,877.—Treating Flax, Cotton, Etc.—C. W. Newton and O. G. Newton, Edenburg, Mo.: We claim the combination on the same bench, for family use, of a picking apparatus, a ginning apparatus, a feeding apron, and a spinning apparatus, all driven from the same tread motion, substantially as described.

62,878.—Process for Steel Facing Vises.—Tertius S. Norton, Chicopee, Mass.: I claim the combination of the two processes of brazing and hardening the piece of steel or facing with that of so firmly holding the facing piece of steel to the iron while the hardening process is being carried on, as to prevent the displacement or escape of the brazing metal from between the contiguous surfaces against which it may be.

62,879.—Bedstead.—Charles Perley, New York City: I claim, first, connecting the side rails and posts by hinges having a vertical hook, so that the side rails can swing horizontally upon such hinges, substantially as set forth.

62,880.—Machine for Picking Cotton.—William Edgar Prall, Knoxville, Tenn.: I claim, first, the revolving cylinders or shafts, N, figure 4, covered with a tenacious substance to attract and wind the cotton from the bolls.

62,881.—Sewing-machine Shuttle.—Nelson Read and G. W. Wyckoff, Syracuse, N. Y.: We claim, first, the spring, C, or its equivalent applied to a shuttle in connection with a spring, so that it acts on the center or axis of its bobbin, so as to make pressure thereon in proportion to the fullness of the bobbin for the purpose of regulating tension on the bobbin thread, substantially as shown.

62,882.—Cleaning Grain.—Richard Redfield, Salem, Ind.: I claim, first, an inclined laterally oscillating trunk, C, constructed with a roughened bottom for separating foreign substances from grain, substantially as described.

62,883.—Machine for Dressing Heel Faces of Boots and Shoes.—T. K. Reed, East Bridgewater, Mass.: I claim the combination of the rotary reducing disk wheel and a means for presenting the face or tread of the heel to the action of said reducing wheel, and for permitting it to be moved across the face of the wheel from the periphery toward the center, substantially as and for the purpose set forth.

62,884.—Apparatus for Securing Buttons to Fabrics.—George Rehffuss, Philadelphia, Pa. Antedated Feb. 16, 1866: I claim the combination of the pointed roll, b, the movable screw, c, with its conical tube, d, and spring, e, the whole being arranged and operating substantially as described.

62,885.—Apparatus for Securing Buttons to Fabrics.—George Rehffuss, Philadelphia, Pa. Antedated Feb. 16, 1866: First, I claim the lever, E, with its die, G, in combination with the frame, A, and rod, C, the whole being arranged and operating substantially as and for the purpose specified.

62,886.—Bran Duster.—James Richmond, Lockport, N. Y.: I claim the outside adjustable cleaning brush, E, in combination with a revolving wire cloth cylinder, D, arranged and operating substantially as and for the purposes set forth.

62,887.—Breech-loading Fire-arm.—Benjamin S. Roberts, U. S. A.: First, I claim in a breech-loading fire-arm the cam, o, shaped and constructed that while it serves to fire the gun by means of a small projecting spur that strikes against the flange containing the fulminate when the breech piece is brought home to its seat, also half cocks the gun when the breech piece is swung upward after the gun is fired and holds the breech piece in its forward position while the cartridge is being inserted in its chamber in the act of reloading, substantially as described.

62,888.—Breech-loading Fire-arm.—Benjamin S. Roberts, U. S. A.: Second, in a breech-loading fire-arm I claim the combination of the shoulder, v, and the pin, x, by which the swinging breech piece is not entirely in its seat, is brought home there in the very act of cocking the piece and thus preventing an accidental discharge before the breech piece is securely locked, substantially as above described.

62,889.—Breech-loading Fire-arm.—Benjamin S. Roberts, U. S. A.: Third, in a breech-loading fire-arm, intended for cartridges with metallic cases, and having a swinging breech piece with an open space in rear of the chamber for the insertion of the cartridges and the extraction of the cases, I claim the use of wavs, b' b', in combination with the hook, R, located between them, all substantially as and for the purpose described.

62,890.—Breech-loading Fire-arm.—Benjamin S. Roberts, U. S. A.: Fourth, I also claim in such breech-loaders the use of a cam, S, operated by a secondary lever, L, for the purpose of starting the breech, B, from its seat, as shown in figure 5, substantially as and for the purpose above described.



