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24,784.—Lewis Allen, of Sleepy Creek, Va., for an Improved Washing Machine:

I claim the construction of the open hollow washing, rinsing, and dipping cylinder, composed of a series of bars, r r, s s, placed at regular intervals from each other, and provided with an open network, u u, as described.

I also claim, in combination therewith, the fluted or ridged pressure, squeezing cylinder, q q, and detachable framing, e e2, f f, g* g2 g1, h h, i i, k k, when arranged, used, and operated in the manner substantially as set forth and described.

24,785.—Jacob Barney, of Chicago, Ill., for an Improvement in Variable Exhaust Device for Steam-engines:

I claim, first, The employment of two cylinders, B B, so provided with gradually tapering grooves in each, that when revolved together, an expanding and contracting circular opening will be formed for the purpose of regulating the passage of the exhaust steam from locomotive and other engines, substantially as set forth.

Second, I claim the cylinder, B B, as constructed, when used in combination, the tight metallic case, C C, and packing, o o, the same being arranged and operating in the manner and for the purpose fully set forth.

24,786.—James Baylor, of Canton, Ill., for an Improvement in Universal Joints:

I claim connecting shafts, when placed angularly with each other by means of the universal joints, constructed as represented and described, by which a rotary motion may be transmitted from one shaft to the other.

[This invention consists in the employment of a cylindrical coupling box, having two slotted bars pivoted within, and at either end of the box, at right angles to each other to the centers, of which the ends of the shafts are pivoted, so that a rotary motion can be conveyed from one shaft to the other when they have a considerable inclination, thereby dispensing with the beveled wheels commonly employed for this purpose, and obtaining a regularity of motion with very little friction.]

24,787.—W. H. Bettes and I. H. Parker, of Kokomo, Ind., for an Improvement in Boot-trees:

We claim, first, The employment of the sleeve, c, in connection with the screw shaft, g, the two being arranged and operating substantially as set forth.

Second, The arrangement of the cords, e, h, and i, with the levers, d' d', and m, substantially in the manner and for the purpose set forth.

Third, The combination of the instep, K, side pieces, H H', and toe-piece, l, when the whole are so arranged and constructed that they will operate simultaneously substantially as and for the purpose described,

24,788.—J. T. Bever, of Mainesville, Mo., for an Improved Bedstead Cord-pin:

I claim a bedstead cord-pin, consisting of two parts, a b, which are constructed and operated in the manner and for the purpose substantially as described.

[This is a device for performing the usual office of the common bedstead pin, and the additional operation of tightening-up the cord whenever it becomes slack. The invention consists in forming an eye through the ordinary pin, and having a turning-piece pass through said eye. This piece has a square head to receive a wrench; it also has ratchet teeth formed on it to gear with reverse set ratchet teeth formed in the side of the pin. The bed cord attaches to the inner end of the turning piece, and consequently when said piece is turned, the cord is twisted and made tight; the ratchet teeth preventing any slipping after the desired tension on the cord is produced. This is an ingenious device, and will accomplish well the tightening-up of the bedstead cords.]

24,789.—Wm. Bull, of New California, Wis., for an Improvement in Sugar-cane Presses:

I claim the arrangement and combination of the hinged adjustable frame, E, roller, J, frame, A, wedge, F, inclined spouts, L L', and roller, D, as and for the purpose shown and described.

[The object of this invention is to obtain a simple, efficient and economical device, one that may be manipulated with facility and advantageously used with a small application of power for the intended purpose, namely, expressing the juice from sugar cane. The invention consists in the employment of two crushing rollers arranged in a novel way, with feed and discharge spouts, an adjustable frame and juice receiver, arranged to attain the desired object.]

24,790.—A. H. Burdine, of Chulahoma, Miss., for an Improved Cotton Gin Sharpener:

I claim, first, The combination of two-crossed reciprocating files, F F, with a circular feeding disk, r, which is constructed with an angular recess, and an inclined hook, r', at one point of its circumference, substantially as and for the purposes set forth.

Second, The combination of the above with a jointed slotted frame and a driving cam, substantially as and for the purposes set forth.

24,791.—P. N. Burke, of Buffalo, N. Y., for an Improvement in Stoves:

I claim the arrangement and combination of the perforated plates, N R, the partitional plate, B, the flue, H, the fire-guard, I, hot air-pipe L, and chamber, K, as and for the purpose shown and described.

[In this stove the deposition and accumulation of soot, ashes, &c., around the ovens is entirely prevented, thus preserving their baking qualities unimpaired, and obviating the necessity of clearing them out. This is effected by dispensing with the reverberatory or dividing flues, and also the interior plates employed in forming them, and introducing in their stead in a particular manner highly charged air which is equitably diffused throughout the stove.]

24,792.—Jeremiah Carhart, of New York City, for an Improvement on Machines for Planing Metal:

I claim, first, The pressure plate, or plates, in combination with the reciprocating bed, and feeding strip, when said plates extend substantially the length of the blank to be planed, and the bed travels far enough to carry the feeding end of the strip entirely past the facing cutter at each operation, substantially as set forth.

Second, I also claim rebating the inner edges of the pressure plate, or plates, as described, in such manner as to furnish at once edge guides and pressure for the blank while being fed to the cutters.

Third, I also claim, in combination with the pressure plates and cutters, the shields extending downwards from the pressure plates to protect the space between the plates from shavings and other foreign manner as described.

Fourth, I also claim, in combination with the reciprocating bed and feeder, the scraper and brush, acting in combination for cleaning the bed and feeder or feeding strip, substantially as described.

24,793.—Herman Carter, of Greene, N. Y., for an Improvement in Harvesters:

I claim the vibrating discharger, F, in combination with the rake, e, arranged and operated in the manner described for the purposes specified.

24,794.—Robt. Cartwright, of Ithaca, N. Y., for an Improved Canal-boat Propeller:

I claim the step or bearing block, I, constructed and arranged relatively to the rudder and vessel, substantially as described, to receive the end thrust of the propeller, shaft, and thus relieving the gearing and rudder from pressure, the whole end thrust of the propeller being upon the step-block, I, which is arranged to admit of any lateral motion to the vessel's center line, thus forming a steering as well as propelling power, and being all placed externally, it entirely obviates the necessity of entering the vessel below the water line.

24,795.—Wm. Chesterman, of Centralia, Iowa, for an Improvement in Coffee-pots:

I claim the arrangement and combination of the piston-packed strainer, E, cylinder, D, receiving vessel, A, socket, H, and condenser F, as and for the purpose shown and described.

[By the peculiar arrangement of this coffee-pot, when the water in it is heated, the steam presses up through the strainer containing the ground coffee, and through a quantity of water above the strainer, so that when the pot is taken off the fire, a vacuum is formed in the lower portion of the pot, and the water above the strainer is forced through the ground coffee into the lower portion of the pot, whence it is drawn off by a spout, and the upper portion of the pot is provided with an air-tight vessel, which acts as a condenser for the vapor of the uppermost water, so that no aroma escapes.]

24,796.—John Clary, of Dayton, Ohio, for an Improved Vegetable Cutter·

I claim the arrangement of the cutting disk suspended from the cross-piece, b, in connection with the convex cutting edge of the cutters, h, substantially in the manner and for the purpose set forth.

24,797.—Wm. H. Davis, of Austin, Ind., for an Improvement in Double-acting Pumps:

I claim the construction and arrangement of the air-chamber, side pipe, and cylinders, and flange at the top all in one piece of casting, for the purpose of suspending the cylinders sufficiently deep in the well to prevent freezing, in combination with the bottom plate, substantially as set forth.

24,798.—Rufus Dawes and W. C. Choate, of Washington, D. C., for an Improvement in Stoves:

We claim the combination of a new fire-room for a downward draft, having a lid to close the opening at the top containing a valve in the lid and an open grate in front, having a door to close this opening air-tight, with a system of ovens heated and ventilated, as specified.

24,799.—B. F. Field, of Sheboygan Falls, Wis., for an Improvement in Rotary Cultivators:

I claim the combination of two or more wheels on one crank eccentric, or equivalent axle, when the said wheels are arranged in pairs on the axle, one wheel within the other, and so as that the spades or forks attached to the inner wheels shall pass out and in through the apertures in the outer wheels, for the purpose of displacing and pulverizing the soil over which they pass, in the manner described.

24,800.—J. D. Field, of Davenport, Iowa, for an Improvement in Stoves:

I claim the fire-chambers, D I, flue, F, and water-heater, H, the latter being provided with inclined tubes, a, to form the grate of the fire chamber, D, the above parts being arranged relatively with each other, the oven, B, and the smoke-pipe, C, to operate as and for the purpose set forth.

[The object of this invention is to obtain a cooking-stove in which the full benefit of the heat generated by the combustion of the fuel will be obtained, and consequently a saving of the latter effected, whether coal or wood be used.]

24,801.—Ambrose Foster and Noah Sutton, of New York City, for an Improvement in Variable Cut-off Gear for Steam-engines:

We claim the employment for operating either the main valve or valves of an engine or a separate cut-off valve or valves, of a compound cam, composed of two parts, C and D, constructed and combined with each other, and applied to the main or a counter shaft, substantially as described.

24,802.—August Freutel, of New York City, for an Improved Lock for Safes, &c.:

I claim, first, The slotted wheels, m, on the tumbler, l, and the plates, 7, in combination with the wheels, 6, of the knobs, k, when said wheels, m, are so arranged that the act of unlocking or attempting to unlock the bolt moves the wheels, m, away from the wheels, 6, in the manner and for the purposes specified.

Second, In combination with the tumbler, l, carrying the wheels, m, and acting as aforesaid, I claim the crosspiece, n, and tumbler, o, substantially as and for the purposes set forth.

24,803.—C. B. Garlinghouse and G. B. Garlinghouse, of Allensville, Ind., for an Improvement in Harvesters:

We claim the peculiar arrangement of the disk, C, in relation to the mechanism for operating the cutters, the standard, K, and sliding frame, m, in the manner and for the purpose specified.

24,804.—Halvor Halvorson, of Cambridge, Mass., for an Improved Trimmer for Lamp Wick:

I claim, in combination with a knife, D, and bed or anvil, E, or other suitable wick-cutting devices, gages, e f, constructed and arranged as shown, or in such a manner as to hold or retain the wick, and prevent it expanding laterally, while under the action of the cutting device, for the purpose set forth.

24,805.—Jacob Hess, of Niagara Falls, N. Y., for an Improvement in Lathes:

I claim the combination of the grooved central shaft, m, with its movable disks, e f, adjusting gears, k i, and index spring-hook, n, all of said parts being constructed and arranged in relation to each other as and for the purpose set forth.

24,806.—Grove Howard, of Westfield township, Ohio, for an Improvement in Machines for Raking and Loading Hay·

I claim the arrangement of the endless belt, F, pulleys, D and E, curved teeth, r, rods, K, lever, m, and catch, d, in the frame, A, and with the body, l, the whole being constructed and operating substantially as and for the purpose specified.

24,807.—L. S. Hoyt and B. B. Beers, of New Fairfield, Conn., for an Improved Bit-stock and Wrench:

We claim, first, The above-described wimble or bit-stock wrench with one permanent and one movable jaw, which may be readily adjusted to turn nuts or screws of different sizes, substantially as described.

Second, We also claim the block, k, or its equivalent, with a socket adapted to receive and hold the shanks of common bits, and fitted to the permanent or movable jaw or both so as to hold the block and bits substantially as described.

Third, We also claim the screw, N, so arranged as to fasten the block on to the jaw, C, and the bit in the socket, L, at the same time, substantially as described.

24,808.—Wm. Johnson and Martin Sihnser, of Auburn, N. Y., for an Improved Steam Cock:

We claim a plug cock, with a sectional plug, whose sides are inclined to its axis, in combination with a single casing through which and directly opposite are openings whose sides are parallel to the axis of the plug, and constructed as described.

24,809.—David Knowlton, of Camden, Maine., for an Improved Joint for Pump-pipes:

I claim making the joint hemispherical, in combination with the stiff or rigid flanges, by which the parts joined hemispherically may be held at the desired angle, substantially as described.

24,810.—David Knowlton, of Camden, Maine, for an Improved Ships' Warping Chock:

I claim the cast-iron warping chock described, as a new article of manufacture.

24,811.—A. H. Lowell, of Manchester, N. H. for an Improved Hose Coupling:

I claim the locking devices described, in combination with the screw tube, K, arranged in connection with, and on the outside of said locking devices, substantially as described.

24,812.—Franklin I. May, of Beverly, N. J., for an Improvement in Grain Separators:

I claim, first, The two side or supplementary inclined planes, C and C', in combination with the short inclined plane, B, and the two adjustable guides, r and r', the same being constructed and arranged together so as to operate substantially as and for the purposes described and set forth.

Second, I claim the employment of the sliding board, E, in the shaker, E, when the said board is arranged to operate in combination with the screens therein, in the manner described, and for the purpose of better preparing the grain, &c., for the inclined planes, B C and C', and the rotary screen, A, as described and set forth.

24,813.—James H. Maydole, of Eaton, N. Y., for an Improvement in Foot-stoves:

I claim, in combination with a foot-stove, the several parts thereof being arranged in the order specified, the employment of a lamp constructed with an intermediate space, P, filled with plaster of Paris, or the equivalent thereof, whereby I am enabled to prevent the heating of fluid contained therein, for the uses and purposes set forth.

24,814.—Isaac C. Mayer, of Jersey City, N. J., for an Improved Machine for Turning Skins:

I claim the implement constructed and operated, as herein described, for the purpose of turning the skins used by furriers, as herein set forth.

24,815.—E. I. McCarthy, of Saugerties, N. Y., for an Improvement in Furnace Grates:

I claim a furnace with a series of stationary grate bars, in combination with a series of movable blades, so arranged as to pass between and above the bars, and descend below so far as not to obstruct the draught and be beyond the influence of the intense heat of the furnace, as described, for the purpose set forth.

24,816.—Z. N. Morrel, of Cameron, Texas, for an Improved Excavating and Grading Machine:

I claim, first, The employment of a revolving cylinder of blades, arranged at the lower end of the inclined digger, in combination with said digger, and with a series of colter plows arranged at the front end of the machine, substantially as and for the purposes set forth.

Second, The employment of a revolving cylinder of teeth or blades, arranged at the upper end of the inclined digger, in combination with said digger, substantially as and for the purposes set forth.

[By this invention the soil is first cut up in long narrow slices, then divided transversely into small clods, next elevated and pulverized, and then conveyed by endless longitudinal apron conveyors, which discharge it at right angles to or on one side of the grade or ditch. The arrangement of the parts in this machine is quite simple and compact, and we should think the machine is constructed on a plan which cannot fail to operate well.]

24,817.—Wm. Newell, of Philadelphia, Pa., for an Improved Machine for Scouring and Polishing Coffee:

I claim the combination of the two cylinders, B and E, having a space between them, with the scarified arms or beaters, L M, moving in contrary directions, substantially in the manner and for the purpose described.

24,818.—Wm. Perkins, of Plympton, Mass., for an Improvement in Railroad Car Brakes:

I claim, first, The arrangement of the sliding buffers, J, brake levers, N, rod, i, hooked rods, b b', and staple, n, to operate in combination with the brake, substantially as and for the purpose specified.

Second, Arranging the brake shoes, L, in combination with the staple, n, and hooks, m m', substantially as described.

Third, The arrangement and combination of the hooked rods, l l', and the rods, o o', and with the staple, n, so that the hooks, m m', can be adjusted according to the direction in which the car is to run, substantially as set forth.

Fourth, The arrangement and combination of the sliding buffer, J, lever, P, and spring, Q, substantially as specified.

[The great desideratum of a good car brake is to give the engineer perfect control over it, so that he is enabled to put on or take off the brakes at pleasure as well when the train is going a head as when it is going back, and the present invention, claimed above, answers this purpose.]

24,819.—A. P. Pitkin, of Hartford, Conn., for an Improvement in the Mode of Heating Drying Cylinders by Steam:

I claim, in combination, the closed heating cylinders, force pump, vacuum valve and connecting tubes, substantially in the manner as and for the purpose set forth.

24,820.—Wm. Porter, of Mexico, N. Y., for an Improved Saw Gummer:

I claim, first, the arrangement and combination of the lever, p, with the sliding box, g, by means of the bar, m, so as to give a continued and downward action upon the cutter or burr, f', by the use of the coiled springs, g' g', thereby feeding the said cutter or bur, as and for the purpose described.

Second, The arrangement and combination of the index pointers, h' h', with the index, B, and the bars, t t', connected to the frame, A, so as to give any required direction to the cutter or burr, f', as and for the purpose set forth.

Third, I also claim the use of the set screw, b', by means of which the distance between the blocks, a' a', is adjusted proportionally to saw plates of different thicknesses prior to being fastened thereto by the eccentric lever, c e.

24,821.—John A. Reed, of Jersey City, N. J., for an Improvement in Oscillating Steam-engines:

I claim the arrangement of the reversing valve, E, in a steam chest, on the top of a bridge-piece, D, in combination with the separate passages in the bridge-piece communicating the chambers in the trunnion boxes, substantially as described.

24,822.—Benj. Robbins, of Machias, Maine, for an Improved Apparatus for Working Pumps:

I claim the combination and arrangement of the crank, f, fly-wheel, J, lever, H, walking beam, E, and piston rods, D D, as and for the purpose set forth.

[This invention relates to an improved arrangement of means for operating two reciprocating pumps, and consists in having the piston rods attached to the ends of a walking beam which is operated by segment gear from an oscilating arm, put in motion by a crank on a driving-shaft; the object of this arrangement being to apply power to the two pumps in as directa manner as possible with the smallest amount of friction.]

24,823.—Edwd. A. L. Robbins, of New York City, for an Improved Furnace for Dental Purposes:

I claim the arrangement and application of the double inclined grates, c c, substantially as and for the purposes set forth.

I also claim, in combination with such inclined grates, the parts, B, to contain the muffle, C, retort, &c., the whole arranged substantially as and for the purposes set forth.

24,824.—Chas. Rundlett, of Alden, and John W. Drummond, of Winslow, Maine, for an Improved Hay Press:

We claim the arrangement of the driving drum or windlass, K, and the driving gear, I, with reference to the press-box, B, and the platen screws, D E, and their pinions, disposed on the sides of the press-box.

We also claim the combination and arrangement of the connecting rods, F F, and rings, G G, with each platen-elevating screw, E, and the bars of the cover of the press-box, the whole being to operate as specified.

We also claim the mode of applying the draft-rope guide, M, to the press frame and the driving pulley, that is, by means of a fulcrum, r, and the screw or projection made to enter the helical groove of the driving pulley.

24,825.—Henry Sauerbier, of Newark, N. J., for an Improvement in Edge Planes:

I claim the bevel wheel, e, pinion, b, worm, a, wheel, c, socket-shaft, p, pinion, D, feed-wheel, C, cutter-head, B, gages, i, roller, J, lever piece, t, and corliss head, Fig. 3, constructed, com ined and arranged substantially as herein-above set forth and for the purposes specified.

24,826.—Morrill A. Shepard, of Orin, Ill., for an Improved Hydraulic Motor:

I claim the combination of the vacuum tube, e, and tube, c, for giving motion to the water-wheel by the action of an undamned stream, substantially as described.

24,827.—T. Briggs Smith, of Marietta, Ohio, for an Improved Metallic Bung:

I claim a metallic screw bung, for casksor other wooden vessels, for holding liquids with a knife-like thread, and an elevation at any point between the threads, and a shoulder on the bung, let into the stave, substantially as and for the purposes specified.

24,828.—Lewis Solomon, of New York City, for an Improvement in Furnaces:

I claim so constructing a desulphurizing furnace for roasting the ores of precious metals, as that the heat shall be applied first beneath the sole of the furnace and afterwards on the surface of the ore, when the same is combined with a chamber arranged in the base of the chimney for the reception of such volatilized particles of ore, &c., as may be driven off by heat or carried over by the draught, substantially as described.

24,829.—M. B. Spafford, of Warsaw, N. Y., for an Improvement in Snow-plows:

I claim the vertical rotary shaft, S, with its spiral wings, W W', for the removal of snow from the railroad track, as described.

24,830.—Obed S. Squire, of New Haven, Conn., for an Improvement in Lasts:

I claim the arrangement and combination of the longitudinal sections, A B, strips, C D, and bolt, E, as and forthe purposes shown and described.

[By this improvement the manufacture of india-rubber boots and shoes is much facilitated, the lasts being made in two halves, so that the shoe or boot can be widened without the length being increased and varieties of shape obtained without the necessity of tabs upon the last.]

24,831.—Geo. Storer, of New Britain, Conn., for an Improved Meat-masher:

I claim the hollow or solid cylinders with pointed angular teeth, the base of which teeth has nearly in contact, and in combination therewith, the device for adjusting the cylinders, all constructed substantially as and for the purpose specified.

24,832.—John G. Treadwell, of Albany, N. Y., for an provement in Stoves:

I claim the combination of the division, C, with the damper, D, and doors, E, when the same are arranged substantially in the manner and for the purpose specified.

24,833.—John G. Treadwell, of Albany, N. Y., for an Improvement in Stoves:

I claim the employment of the hinged plate, J, in combination with the hearth-plate above, the two being used and operated in the manner and for the purpose specified.

24,834.—A. K. Tupper, of Clarkston, Mich., for an Improved Elbow for Stove-pipes:

I claim constructing the joint of pipes, P and P', with flange, f', and the overlapping flange, f', so as to allow the pipe to be adjusted at any desired angle, substantially as described.

24,835.—Albert Warren, of Jefferson, Ohio, for an Improved Machine for Cutting Heels and Soles for Boots and Shoes:

I claim the bent knife, Y, resting on the shoulders, x x x x x, of the movable slides, as herein described, and for the purposes herein specified.

I also claim the knife, Y, resting on shoulders, x x x x x, as herein described, in combination with the knife, Q, adjusted as set forth, and by which any size or shape of leather may be cut, ready to be sewed or pegged upon the boot or shoe.

24,836.—W. A. Wood and J. M. Rosebrooks, of Hoosick Falls, N. Y., for an Improvement in Harvesters:

We claim, in combination with a main frame supported upon two driving wheels, and which frame carries the shaft, D, and main cog-wheel, E, a second frame, hinged to said shaft, D, so that the crank shaft on said second frame shall always be in a radial line to the main cog-wheel, E, however much said second frame may vibrate on the main frame, as set forth.

24,837.—Geo. W Watrous, of Hartford, Conn., for an Improved Fastening for Bedstead Drapery:

I claim as a new manufacture, or a new and improved article of manufacture, a drapery-fastening, constructed of a case, A, hook, C, link, D, substantially as and for the purpose described.

24,838.—Henry R. Worthington, of Brooklyn, N. Y., for an Improvement in Pumping-engine:

I claim, first, The combination set forth and exhibited of two direct-acting pumping-engines, propelled by steam or other fluid, so arranged as that each engine shall actuate the inlet and outlet valves, governing the motive power of the other, thereby ensuring the constant action of at least one pump-piston upon the water and relieving the action of the pump from shocks and concussions.

Second, I claim the arrangement shown of two distinct systems of levers adapted to the steam and exhaust valves of each engine, the one system to be operated upon for producing motion and for determining the duration of the repose of the piston at the termination of the stroke: the other for bringing the pistons to a state of rest—all substantially as explained and set forth.

24,839.—Jacob Beachler (assignor to himself and J. F. Brickley), of Anderson, Ind., for an Improvement in Railroad Switches:

I claim the obstruction or "scotch," E, applied to the turn-out and connected with the switch so as to be operated automatically by the movement of the same, substantially as and for the purpose set forth.

[The object of this invention is to prevent the casual movement of cars on turn-outs, so that the cars cannot pass the intersection of the main track and the turn-out, and prove a dangerous obstruction to the main track. It frequently happens that cars—freight, and empty or surplus passenger cars—are switched off on side-tracks or turn-outs, and if the grade of the turn-out be slightly descending towards the main track, the cars are very liable to move back towards the main track, a slight wind or other disturbing cause effecting the result. This difficulty is obviated by placing an obstruction by the side of the turn-out near the switch, and connecting the obstruction with the switch in such a way that when the switch is thrown in line with the turn-out the obstruction will not be in operation, but when the cars are on the turn-out the obstruction will be across one of the rails.]

24,840.—Norman Bedell (assignor to S. P. Bedell), of Albion, N. Y., for an Improvement in Elbows for Stove-pipes:

I claim, first, The employment of the metallic frame, C, constructed and used substantially in the manner and for the purpose set forth.

Second, The combination of the clasp, D, with the frame, C, as constructed for the purpose of holding the miter edges of the pipe together, substantially as set forth.

24,841.—H. F. Cox, of Jersey City, N. J., and Alex. Millar, of New York City, assignors to H. F. Cox, aforesaid, for an Improved Machine for Polishing Corks:

We claim the cork-polishing machine, consisting of a series of rollers roughened by a surface of pumice-stone, or equivalent abrading material, and a brush or brushes acting in conjunction to polish the cylindrical portion of machine-made corks, as described.

24,842.—Levi Dodge (assignor to himself and Dodge & Blake), of Waterford, N. Y., for an Improvement in Dies for Shaping Articles in Metal:

I claim the forming of articles of iron or other metal, when such articles are to be shaped by a simultaneous action or pressure of dies on several or all sides, the employment of the movable dies, e, operating substantially upon the principles set forth.

24,843.—Moses H. Gragg (assignor to himself and T. N. Page), of South Boston, Mass., for an Improvement in Corn-huskers:

I claim the arrangement and combination of the small intermediate conical roller, C, larger conical rollers, A B, guard, G, and hopper, D, as and for the purpose shown and described.

24,844.—Joseph C. Henderson (assignor to Rathbone & Co.), of Albany, N. Y., for an Improvement in Stoves:

I claim, first, The air-space, m, between the oven and the fire, when so constructed and arranged that a descending draft the whole width of the stove passes through said space, and thence to the fire, for promoting combustion, and at the same time rendering the temperature of the oven more uniform, as set forth.

Second, I claim the damper, n, at the front end of the oven, in connection with the descending flue between the front plate and fire box, whereby the oven can be entirely closed when the stove is in use for roasting, as specified.

24,845.—Lorenzo Lake (assignor to himself and Wm. Patton), of Middlebury, Pa., for an Improved Churn:

I claim the dasher, made in the manner as described in my specification and shown in drawings at L, when the same shall be operated by the devices as described for the purpose set forth.

24,846.—Robert McWilliams (assignor to S. H. Hoffman), of Philadelphia, Pa., for an Improvement in Journal-boxes for Railroad Cars:

I claim, first, The upper half, A, of the box, with its socket, formed by the flanges, h, in combination with the lower half, B, of the box, when the two halves are arranged substantially as set forth, so that on adjusting the lower half to its place it may assume the position shown in Fig. 1, and so that when adjusted the end, w, of the oil-chamber shall be close to the axle, as and for the purpose specified.

Second, The self-adjusting leather packing, D, and the metal plate, F, when both are dependent upon the lower half of the box for their proper position within the other half, and when they are otherwise arranged in respect to both upper and lower half of the box, as and for the purpose set forth.

24,847.—Louis Planer (assignor to himself and Joseph Auger), of New York City, for an Improvement in Sewing Machines:

I claim the combination of the peculiarly constructed notch, a b c, which is confined to the upper half of the shuttle and leaves the lower half intact, with a driver having a single horn or finger, which entering the said notch constitutes a guard to prevent the flying up of the heel of the shuttle, substantially as described.

24,848.—Geo. W. Richardson (assignor to himself and G. M. Weed), of Grayville, Ill., for an Improvement in Harvesting Machines:

I claim the application of the rack, d, upon the reciprocating bar, D D, and pinion, i, upon the vertical shaft, H, connected and arranged for operating the two sickles at the same time by the cam-wheel, c, in manner described.

Lyman L. Thomas, of Dighton, Mass., assignor to the Dighton Furnace Co., for an Improved Damper for Cooking Stoves:

I claim the damper, D, substantially as set forth, or in other words, I claim a damper placed in the outlet of the return flue of a cooking stove, near the termination of said flue, and of such a form that when secured or hinged at its lower end to the side of the flue opposite the oven, and when partially or fully closed it shall stand in a position more or less diagonal across the flue, and of such a length that it can never be moved more than twenty-five degrees from a perpendicular.

RE-ISSUES.

Lewis Miller, of Canton, Ohio, assignor to C. Aultman & Co., for an Improvement in Harvesters. Patented May 4, 1858:

I claim hinging the finger beam to the main frame so that it can be folded up thereon substantially as described.

Lewis Miller, of Canton, Ohio, assignor to C. Aultman & Co., for an Improvement in Harvesters. Patented May 4, 1858:

I claim hinging the coupling arm to the frame at one side of the main axle and supporting it by a brace hinged to the frame on the opposite side of the axle in such manner as to obtain among other things a wide basis for trading on a short frame without interfering with the folding-up the finger-beam against or upon the frame to render the machine more portable, substantially as described.

Lewis Miller, of Canton, Ohio, assignor to A. Aultman & Co., for an Improvement in Harvesters. Patented May 4, 1858:

I claim the combination of the crank and the bearing for its journal the cutter, the coupling arm and the hinge of its inner end, with a hanger which is made the common support for the hinge of the coupling-arm and the journal of the crank arranged and operating substantially as set forth.

Lewis Miller, of Canton, Ohio, assignor to C. Aultman & Co., for an Improvement in Harvesters. Patented May 4, 1858:

I claim the method of folding the finger beam upon the frame by aid of the coupling arm with a lifting lever and cord, or the equivalent thereof, substantially as set forth.

Lewis Miller, of Canton, Ohio, assignor to C. Aultman & Co., for an Improvement in Harvesters. Patented May 4, 1858:

I claim, first, The combination of a knuckle with the joint which connects the finger beam and coupling arm, and the lever for raising the finger beam off the ground, the several parts being constructed and arranged as set forth.

Second, The combination of a lever arranged to turn on a pivot and to vibrate laterally with notches and a catch to support the lever at any required elevation, together with the coupling arm and finger beam suspended to it, substantially as set forth.

Lewis Miller, of Canton, Ohio, assignor to C. Aultman & Co., for an Improvement in Harvesters. Patented May 4, 1858:

I claim the arrangement of the hand lever, R, driver's seat, V, and foot lever, P, whereby the driver may, when necessary, employ both his hands and his feet to raise the finger beam, substantially as set forth.

Lewis Miller, of Canton, Ohio, assignor to C. Aultman & Co., for an Improvement in Harvesters. Patented May 4, 1848:

I claim the combination of the spring pawl and the teeth with the gib and key of the connecting rod and cutter, substantially as set forth.

C. Aultman and L. Miller, of Canton, Ohio, assignors by mesne assignments to C. Aultman & Co., for an Improvement in Mowing Machines. Patented June 17, 1856:

We claim the combination of the shoe which carries the end of the finger beam, next the main frame with a hinged brace-bar, whose axis of motion at the end connected to the main frame is in a line with that of the corresponding end of the hinged coupling arm, substantially as set forth.

Cornelius Aultman and Lewis Miller, of Canton, Ohio, assignors by mesne-assignment to C. Aultman & Co., for an Improvement in Mowing Machines. Patented June 17, 1856:

We claim the combination, with the hinged coupling arm, of a hinged brace whose axis of motion, at the end next the main frame, coincides with that of the corresponding end of the coupling arm, substantially as set forth.

Cornelius Aultman and Lewis Miller, of Canton, Ohio, assignors by mesne-assignment to C. Aultman & Co., for an Improvement in Mowing Machines. Patented June 17, 1856:

We claim the construction and arrangement of the finger-beam and the main frame, so that the beam may be turned on its hinge into an upright position and then raised and leaned against the frame to elevate it out of the reach of obstructions, and distribute the weight more equally upon the carrying-wheels when the machine is to be removed from one place to another where the mowing is to be done, substantially as described.

Cornelius Aultman and Lewis Miller, of Canton, Ohio, assignors by mesne-assignment to C. Aultman & Co., for an Improvement in Mowing Machines. Patented June 17, 1856:

We claim the combination of a hinged coupling arm, the finger-beam and a catch, substantially as described, whereby the finger-beam can be turned, raised and held up to render the removal of the machine from place to place more convenient and secure.

Cornelius Aultman and Lewis Miller, of Canton, Ohio, assignors by mesne-assignment to C. Aultman & Co., for an Improvement in Mowing Machines. Patented June 17, 1856:

We claim mounting the two driving-wheels and one main gear-wheel upon a common axle, in combination with a ratchet-wheel for each driving-wheel, each ratchet-wheel fitted with a pawl that can be made to stand in or out of gear with the ratchet teeth at will, the whole arranged and operating substantially as described.

Cornelius Aultman and Lewis Miller, of Canton, Ohio, assignors by mesne-assignment to C. Aultman & Co., for an Improvement in Mowing Machines. Patented June 17, 1856:

We claim the combination of a ratchet-wheel, a ratchet pawl, a spring acting on the pawl and a bearing pin, or the equivalent thereof, for the spring, with the driving-wheel and the axle of the main gear-wheel, whereby one spring is made to perform the two duties of holding the pawl, both in and out of gear, with the ratchet-wheel, substantially as described.

Lewis Miller, of Canton, Ohio, assignor to C. Aultman & Co., for an Improvement in Harvesters. Patented May 4, 1858:

I claim the combination of the inner shoe with a leading-wheel, arranged substantially as set forth.

Lewis Miller, of Canton, Ohio, assignor to C. Aultman & Co., for an Improvement in Harvesters. Patented May 4, 1858:

I claim the combination, with the shoe of an adjustable sole, of the peculiar double runner form, herein described, whereby the sole can be adjusted directly to the heel of the shoe without the intervention of a link-rod and joint, as set forth.

McClintock Young, Jr., of Frederick, Md., for an Improvement in Harvesters. Patented Sept. 21, 1858:

I claim connecting the handle of the rake to a transverse shaft in such a manner that the rotation of the said shaft, when aided by the curved guiding-rod, R, or its equivalent, will impart the within described movements to said rake, viz., a sweeping axial movement from the inner edge of the sector-shaped platform (or a little beyond the same) over to the forward portion of said platform, and at that point instantly changing to an axial horizontal movement across the platformt o the starting point, and so onwards in regular succession, substantially as set forth.