

1 claim, 1st, The cast iron plates, with projecting wedge-shaped flanges, to be driven into the sand or earth, substantially as and for the purpose set forth.

2d, Also, a pavement composed of alternate tiers of cast iron plates, with projecting wedge-shaped flanges and wedge-shaped wooden blocks, driven into the sand or earth, substantially as described.

72,112.—WASHING MACHINE.—John D. Swartz, Milton, Pa.

I claim, 1st, The slotted arms, g, bearing the shaft, D, and rubber, C, when such arms are connected at their lower ends by the slotted bar, E, through which the spring, G, passes, as herein described for the purpose specified.

2d, The combination of the semi-circular rubber, C, slotted arms, g, shaft, D, slotted cross-bar, E, spirally grooved rollers, d, in the curved frames, B, the spring, G, and rack, H, as herein described for the purpose specified.

72,113.—PORTABLE FENCE.—G. D. Sweigert, Martic township, Pa., assignor to himself, John Sweigert and Felix W. Sweigert.

I claim a portable fence, combined of round wrought-iron posts, C, bed-plate, A, rails, B, secured, and applied with intervening ferrules, D, head and bottom washers, F, all arranged in the manner and for the purpose specified.

72,114.—VARIABLE CRANK FOR BORING-MACHINE.—G. C. Worcester, Worcester, Mass., assignor to Theodore Mace, Sing Sing, N. Y.

I claim the two variable cranks, constructed as specified, and applied in the manner shown, to the shaft or axis of the boring-machine, as and for the purpose set forth.

72,115.—ROTARY TAKE-UP FOR KNITTING MACHINE.—James Teachout, Waterford, N. Y.

I claim, 1st, The stationary scroll-plate, C, placed over the center of motion of take-up of knitting machines, for the purpose described.

2d, Also, in combination with the scroll-plate, C, the toothed gear, D, for the purpose herein set forth.

3d, Also, the toothed wheel, D, or its equivalent, either separately, or combined with the described appendages, e, f, g, h, arranged as shown and described as operating substantially in the manner and for the purpose specified.

4th, Also, in combination with the above, the adjustable gear, s, and concentric gears, r, for the purpose described.

72,116.—KNITTING MACHINE.—James Teachout, Waterford, N. Y.

I claim, 1st, Forming the "jacks" or loop-lifters, B, with a projecting arc, f, and depressed arc, g, for the purpose set forth.

2d, In combination with the arc, f, and arch, g, the rounded end, as shown and described.

3d, In combination with the described knitting-jacks, a retaining hub or device, constructed and arranged as shown and described.

72,117.—KNITTING MACHINE.—James Teachout, Waterford, N. Y.

I claim, 1st, The vertically adjustable collars or rings, G and H, for the purpose described.

2d, In combination with the collars, G and H, the partitions or wings, k, and groove, l, as set forth.

3d, In combination with the adjustable collars, G and H, wings, k, and groove, l, the "jacks" or lifters, a, formed as shown and described, for the purpose specified.

72,118.—MANUFACTURING ILLUMINATING GAS.—J. B. Terry, Hartford, Conn.

I claim, 1st, The method herein described of heating air charged with hydrocarbon vapor, so as to render it non condensable previous to its delivery as an illuminating gas, for the purpose set forth.

2d, The employment of a retort or other heating medium interposed between the carbureter and gas holder or other gas-delivering or gas-burning device, substantially as and for the purposes set forth.

3d, The employment of a retort or other heating medium under the retort or vessel, for the purpose of heating the same under the arrangement herein shown and described.

4th, The combination, with the carbureting-vessel and intermediate heater, of a jacket under or around the said carbureter, and a flue connecting the jacket with said heater, substantially in the manner and for the purpose set forth.

72,119.—LOOMS.—S. T. Thomas and J. H. Dolley, Guildford, N. H.

We claim, in combination with the lever, g, arranged to operate as set forth, the incline, n, or its equivalent, for relieving the picker from the action of the spring, l, to permit free movement of the shuttle-boxes, substantially as set forth.

72,120.—GATE.—John W. Thompson, Greenfield, Mass.

I claim a gate, made of metallic tubing and connections, substantially as herein set forth and described.

72,121.—TAIL-PIECE FOR VIOLINS.—James Thoms, South Boston, Mass.

I claim applying a winch to the tail-piece of a violin, substantially as and for the purpose herein shown and described.

72,122.—FOLDING BEDSTEAD AND CRIB.—R. S. Titcomb, Gloverville, N. Y.

I claim, 1st, A folding bedstead or crib, substantially as shown and described, and for the purpose set forth.

2d, A rotating bedding-board, A, in combination with the head and foot-boards of a bedstead or crib, substantially as shown and described, and for the purpose set forth.

3d, Folding head and foot-boards, composed of the parts, F and C, substantially as shown and described, and for the purpose set forth.

4th, The swinging side, A, in combination with the box, A, and the head and foot-boards, F, C, substantially as shown and described, and for the purpose set forth.

72,123.—STEAM ENGINE.—J. F. Troxel, Bloomsville, Ohio.

I claim, 1st, The construction of the oscillating valve, T, and arrangement of the openings, S, P, P', and R, substantially as shown and described.

2d, Also, the arrangement of the piston rods, K and L, operating in one and the same end of the cylinder, substantially as shown and described.

72,124.—WARDROBE.—Nathan Turner, West Lynn, Mass.

I claim a convertible wardrobe, closet, or book case, with swinging or folding sides, C, and swinging or folding top, A, and bottom, B, substantially as described and for the purpose set forth.

72,125.—APPARATUS FOR DISTILLING OILS.—Herbert W. C. Twiddle, Pittsburg, Pa.

I claim, 1st, A trough or troughs, having perforations for the passage of the oil in small quantities, and furnished with points near to such perforations, so as to cause the oil to pass therefrom in drops, or fine streams, or thin films or layers, over heated pipes or tubes placed thereunder, when used within a vacuum still, for the purposes substantially as described.

2d, In a vacuum still for distilling oil, the use of a series of coil of steam pipe, placed horizontally, one under another, as a series of evaporating surfaces, substantially as and for the purpose set forth.

3d, In a vacuum still for distilling oil, a series of coil of steam jet pipes, e, in combination with a series of coil of evaporating pipes, a, substantially as and for the purposes above set forth.

4th, Combining together a series of apparatus, such as hereinbefore described, for the purpose of procuring a continuous distillation of petroleum, each member of a series consisting of a vacuum still containing a coil of steam pipe as evaporating surfaces, and troughs for the gradual distillation of the oil, in combination with suitable condensing apparatus, substantially as and for the purposes hereinbefore set forth.

5th, A vacuum residuum receiver, D, connected to and in combination with a vacuum still, or a battery of such stills, substantially in the manner and for the purpose above set forth.

72,126.—DISTILLING HYDROCARBON OILS.—Herbert W. C. Twiddle, Pittsburg, Pa.

I claim, 1st, In distilling hydrocarbon oils, vaporizing the oil by causing it to flow in a thin film or layer over the surfaces of a series of heated pipes in a vacuum still, with or without the application of superheated steam, substantially as above described.

2d, The application of the process of distillation, hereinbefore described, to the re-distillation of fire-cracked oils, for the purpose of producing an oil similar to the refined oil of commerce, substantially as above set forth.

3d, Securing a continuous and complete distillation of hydrocarbon oils, by causing the oil to flow over the surfaces of a succession of heated pipes in different vacuum stills, the temperature of such pipes increasing in each successive still, so as to drive off at first more volatile ingredients, and then those less so, so on till only the residuum remains, substantially as hereinbefore described.

72,127.—GRAIN DRILL.—Joseph G. Vale, Cumberland Co., Pa.

I claim the quart-elliptical shovel, B, with its base, E, E', coming to a point at E, the rod, C, with the rod, H, with thereon the balls, D and D', together with the funnel, A, all constructed and operating in the manner and for the purpose described.

72,128.—WINDOW-SASH STOP.—George R. Vanderbilt (assignor to himself, J. J. Lindstrom, and D. W. Stidolph), Mount Vernon, N. Y.

I claim, 1st, The two clamping plates, and the tightening bolt, combined and operated, substantially as and for the purpose specified.

2d, The springs, arranged in relation to the plates, c, d, substantially as and for the purpose specified.

72,129.—MUSICAL INSTRUMENTS.—George W. Van Dusen, Williamsburg, N. Y.

I claim the combination and arrangement of lever, V, with finger-piece, Y, at one end, and stud, b, at the other, valve, G, and air passage, E, closed by a flexible diaphragm, K, substantially as herein described, and for the purpose of producing, by means of air, an action upon any suitable sound-producing mechanism through the movement of a sheet or strip perforated, or in any other equivalent manner prepared.

72,130.—WATER INDICATOR FOR BOILERS.—Andreas Vang, Chicago, Ill.

I claim the arrangement of the globe, a, arm, b, cylinder, c, indicator, f, and whistle, g, substantially as herein set forth.

72,131.—HORSE-HAY FOKK.—Oliver Vanorman, Ripon, Wis.

I claim the arrangement of the fork heads, B, B', in the frame, A, and with the arms, C, C', rollers, e, and cords, D, D, as and for the purpose set forth.

72,132.—WASHING MACHINE.—Lewis Vaughan, Rapids, O.

I claim the adjustable bottom, B, and spring lever, T, as arranged in combination with the roller, C, in the manner substantially as described.

72,133.—HAY RAKER AND LOADER.—Albert Vose, Pittsfield, assignor to himself and Andrew S. Vose, Randolph, Vt.

I claim, 1st, The fork arm, b, hinged or pivoted to the frame in line with the axle, and operated by means of friction blocks, as described.

2d, The friction blocks, d, in combination with fork arm, b, and eccentric levers, e, arranged as described.

3d, The fork arms, b, in combination with the freely-swiveling fork bar, o, operated as described.

4th, The forks, g, pivoted in swiveling bar, o, and operated by means of levers, v, and rods, c, cords, or chains, substantially as described.

5th, The levers, v, mounted on the bars or arms, b, in combination with the rods, c, substantially as described.

6th, The combination of fork, g, spring, t, chains, w, and levers, v, with the fork arm, b, substantially as and for the purpose set forth.

7th, The means for opening and closing the lifting forks, in combination with a means for operating the friction blocks, or their equivalent, whereby they are operated simultaneously, as described.

8th, The lever, e, for closing the forks and applying the friction blocks, as

described, in combination with the arms, g, for releasing the same as described.

9th, The extension, x, of the curved fork bars, b, in combination with cords or chains, s, operating as described.

10th, The curved or semicircular rake head, or its equivalent, arranged in rear of and operated in connection with the lifting fork, substantially as described.

72,134.—WASHING MACHINE.—George E. Wade, Jefferson City, Mo.

I claim the lever, M, the spiral metal plate, F, the wash boards, A and B, corrugated as shown, and the springs, C, C', in combination with a common wash tub, when constructed, arranged, and operating substantially as shown and specified.

72,135.—BOLT AND RIVET MACHINE.—John Wakefield, Birmingham, England, assignor to Isaac Smith and William Fothergill, Birmingham, England.

I claim, 1st, The arrangement or combination, substantially as hereinbefore described, and illustrated in the accompanying drawings, of the vertical dies, b, b', for cutting off and carrying the cut-off length of rod, and for shaping the head of the rivet or bolt, with the horizontal punch or die, m, for shaping the shank of the rivet or bolt, and upsetting the end of the rivet or bolt into a head in the vertical dies.

2d, The arrangement or combination of parts hereinbefore described, and illustrated in the accompanying drawings, for giving motion to the said vertical dies, b, b', and horizontal punch or die, m.

3d, The arrangement or combination of parts hereinbefore described, and illustrated in the accompanying drawings, for removing the finished rivet or bolt from the horizontal punch or die.

72,136.—EGG BEATER.—Dudley Webster, Washington, D. C.

I claim as a new article of manufacture an egg-beater spoon, constructed as described, viz., with its circumference and the edges of an inner central opening serrated as and for the purpose described.

72,137.—BRICK MACHINE.—P. V. Westfall, Kalamazoo, Mich.

I claim, 1st, The combination of the two molding cylinders, C, C', when the molding recesses, l, l', in said cylinders, and their intermediate followers, J, J', are so proportioned with each other that the surfaces of the said followers cannot be brought in contact with each other, and when the said follower plates have substantially the degree of curvature herein represented and described.

2d, In connection with the molding cylinders, C, C', I also claim the central shaft, b, and its operating levers, L, L', in combination with the jointed rods, n, n', and the crank arms, m, m', on the respective cam shafts, for operating all the cams simultaneously, substantially in the manner herein set forth.

3d, The arrangement of the cam shafts, m, m', so as to suspend the moving force operating upon the valve or valves, when they or it have reached the proper limit of throw, substantially as and for the purposes herein set forth.

4th, Also regulating the times of closing passages, so as to induce the cutting-off movement of the valve or valves, at variable periods, substantially in the manner and for the purposes herein set forth.

5th, Also the vibrating motion receiving mechanism derived from an eccentric, or equivalent moving part of the engine, to an intermittent reciprocating motion, by means of a hydraulic apparatus, as hereinbefore described, substantially in the manner and for the purpose herein set forth.

72,138.—APPARATUS FOR ENAMELING PHOTOGRAPHIC PICTURES.—Nathaniel Weston, San Francisco, Cal.

I claim the rest, A, for the glasses, or its equivalent, the use of the glasses, B, B, the weight G, the fastenings, H, the clamps, E, E, or their equivalents, in combination, for the purposes herein set forth.

72,139.—VALVE GEAR FOR STEAM ENGINES.—Norman W. Wheeler, Brooklyn, N. Y.

I claim, 1st, Opening the ports, as l', l', so as to suspend the operation of the valve, and the valve, as l', l', so as to suspend the operation of the steam is cut off, and before the exhaust is opened, substantially as and for the purpose herein set forth.

2d, Also the closure of certain ports, as l', l', so as to cause the valve or valves to resume the movement toward its or their full throw at the proper period, substantially as and for the purposes herein set forth.

3d, Also the closure of certain ports, as l', l', so as to suspend the moving force operating upon the valve or valves, when they or it have reached the proper limit of throw, substantially as and for the purposes herein set forth.

4th, Also regulating the times of closing passages, so as to induce the cutting-off movement of the valve or valves, at variable periods, substantially in the manner and for the purposes herein set forth.

5th, Also the vibrating motion receiving mechanism derived from an eccentric, or equivalent moving part of the engine, to an intermittent reciprocating motion, by means of a hydraulic apparatus, as hereinbefore described, substantially in the manner and for the purpose herein set forth.

72,140.—DITCHING MACHINE.—A. H. Whitacre and T. S. Whitacre, Morrow, Ohio.

We claim, 1st, The combination of the sled, A, and the frame, B, connected by the racks and pinions, c, a, at the corners, arranged and operating substantially as and for the purpose described.

2d, The rollers, D and E, carrying the endless chain, g, with the scoops, h, h, in combination with the drum, C, the plungers, n, n, operating by the double incline, p, around the wheel, K, and the sweep, F, constructed and operating substantially as and for the purpose herein described.

72,141.—FARM FENCE.—Samuel P. Williams, Sheridan, N. Y.

I claim the application and use of the triangular brace posts, B, B, and tierod, C, in the construction of farm fences, in the manner substantially as described.

72,142.—VENTILATING TUNNEL.—Hugh B. Wilson, N. Y. city.

I claim, 1st, The method of applying street lamp posts, and awning and other useful or ornamental posts, pillars, or structures, to the purposes of venting air, and to conducting railway tunnels, substantially as within described.

2d, Also the combination of street lamp posts, and awning and other posts, pillars, or structures, whether for ornament or use, with the connecting tubes of such railway tunnels, substantially in manner set forth.

72,143.—MEDICAL COMPOUND.—J. T. Wilson, Brooklyn, N. Y.

I claim the combination of the above-named ingredients in the manner as and for the purpose described.

72,144.—SHOE LIFTER.—Wm. H. Winans, Newark, N. J.

I claim, 1st, The combination of the lever plate, A, gripping plate, B, spring, b, and holding lever, C, substantially as and for the purpose specified.

2d, The web or studs, a', provided upon the inner surface of the gripping plate B, and arranged in relation with the back of the plate, A, substantially as and for the purpose specified.

72,145.—STOVE.—J. W. Wisner, Howell, Mich.

I claim the portable hot-drying stove, constructed as described, of the corrugated side and end plates, A, supported upon the ash pan, B, extending the entire length of the stove, and mounted upon wheels, the adjustable grate placed at b, in the center of the stove, and the boiler, all arranged as described and for the purpose specified.

72,146.—PAPER FILE.—John Wolfe, Washington, D. C.

I claim the paper file or holder constructed and operated as herein recited.

72,147.—LATHE BOX AND JOURNAL.—Aurin Wood, Worcester, Mass.

I claim, 1st, The combination and relative arrangement of the oil box, B, and groove, a, and inclined oil passage, c, formed in the bottom part, A, of the journal box, substantially in the manner and for the purposes herein shown and specified.

The combination of the journal, C, having the eccentrically shaped grooves, d, cut in its surface, with the journal box, D, provided in its lower part with the oil box, inclined oil passage, and groove, a, under the arrangement substantially as herein shown and set forth.

72,148.—LATHE FOR TURNING SHAFTING.—Aurin Wood, Worcester, Mass.

I claim, 1st, The combination with the bed of the lathe, provided with a reservoir or receptacle, as described, of the sliding tool carriage and the pump, each to and connected with said carriage, substantially as and for the purposes shown and set forth.

2d, The combination with the sliding tool carriage and pump, mounted upon said carriage, of the cup, C, and tube connecting said cup with the pump, substantially in the manner and for the purposes herein shown and described.

3d, The method of operating the pump by connecting the piston rod of the same with a friction wheel, actuated by the rotation of the shaft which is being turned in the machine, in the manner herein shown and specified.

72,149.—FINGER BAR FOR HARVESTER.—Walter A. Wood, Hoosick Falls, N. Y.

I claim, bevelling off the front upper corner of the finger bar, to afford a seat for the sickle or scythe bar, to vibrate upon, in combination with bevelling off the lower side of the finger bar, for the reception of the guard finger.

72,150.—CURTAIN FIXTURE.—William H. Woods, Philadelphia, Pa.

I claim the lever dog, e, with the cross foot, e, engaging and disengaging the teeth of the rack, d, b, in combination with the swivelled knob, d, having a cross bar, g, and working in the slot, a, a, of the racket case, A, substantially as and for the purpose herein described.

72,151.—CHIMNEY.—Ebeneszer S. Phelps, Jr., Wyandot, Ill.

I claim the device above described, consisting of iron box, A, and drawer, B, constructed and arranged as shown, when used in combination with the chimney, D, substantially in the manner and for the purposes specified.

REISSUES.

62,057.—BRICK MACHINE.—Philip H. Kells, Adrian, Mich. Dated March 19, 1867. Reissue 2,810.

I claim, 1st, The combination of the annular mold bed, B, and the central hub, C, substantially as described and represented.

2d, The adjustable wedge-shaped cut-off, d, arranged and employed in the manner and for the purpose explained.

3d, The arrangement upon the mold wheel of the two pug mills on opposite portions, substantially as described.

4th, An annular mold wheel, provided with cogs or gear teeth upon its periphery, and mounted upon a central hub or support, substantially as and for the purpose set forth.

DESIGNS.

2,846.—MASONIC BADGE.—Virgil Price, New York city.

2,847.—COOK'S STOVE.—Russell Wheeler, Utica, N. Y.

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.

40,571.—ROTARY ENGINE.—Metropolitan Rotary Engine Co. (assignee by mesne assignments of Anolph Mulochan), New York city. Dated Nov. 10, 1863. Application for reissue received and filed Sept. 27, 1867.

1st, The combination with the outer stationary case, d, and its concentric inner cylinder or flanges, x, of the eccentric wheel, ring or rim, c, fast to the rotating shaft and carrying a sliding valve or piston for simultaneous action and exposure to the steam or fluid in chambers, y and z, on opposite sides or peripheries of the ring, c, substantially as herein set forth.

2d, The pipes, l, l, and o, and valves or cocks, k, k', m' and m', in combina-

tion with the ring, c, and pistons acting in the steam spaces, y and z, substantially as specified.

2,821 (whole No. 33,825).—LAMP.—Charles W. Caboon, Portland, Me. Dated Dec. 3, 1861. Application for reissue received and filed Nov. 22, 1867.

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

2d, The deflector board or flat shaped or nearly so when made not only as a deflector but partly as a chimney holder, substantially as described.

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 purposes 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, The combination of the glass body of a lamp with a metallic handle, substantially as and for the purpose set forth.

61,956.—COOKING STOVE.—J. J. Savage, Troy, N. Y. Dated Feb. 12, 1867. Application for reissue received and filed Dec. 4, 1867.

1st, I claim constructing a heating stove with its fuel door way or aperture, B, below and forward of its flame or combustion chamber and contiguous to or adjoining its fire box, A, in manner substantially as and for the purposes herein set forth.

2d, I claim the combination of the fuel door way or aperture, B, and the firebox, A, extended contiguously thereunder as applied to heating stoves, in manner substantially as and for the purposes set forth.

3d, I claim, in combination with a heating stove having its fuel door way in the position as herein described, the employment thereof with a lifting lever, Y, substantially in manner as and for the purposes herein set forth.

4th, I claim, in a heating stove, in combination with a fire box, back lining plates and its fuel door way or aperture, B, the arrangement of a front lining plate, E, in position between the flame chamber, C, and the said fuel aperture, in manner substantially as and for the purpose set forth.

5th, In combination with a lever lifter, F, applied to heating stoves in manner as herein described, I claim the employment of a holding hook, b, and catch ridge, e, substantially as and for the purposes herein set forth.

6th, I claim so constructing a heating stove in manner substantially as described herein that fresh fuel may be cast directly into its fire box below and between ignited fuel or coke therein, in manner substantially as herein set forth for the purposes specified.

10,944.—GUN POWDER KEG.—Henry E. Irene L. and Eugene Du Pont (assignees of James Wilson and William Wilson, J. and Charles Du Pont for themselves) Wilmington, Del. Dated March 31, 1857. Application for reissue received and filed Nov. 30, 1867.

1st, As a new article of manufacture a keg or can with a series of corrugations representing hoops which give combined strength and finish.

2d, Casting the female screw for the stopper on a tap or mandrel, as set forth.

3d, The extra ring or boss, D, and head, C, as set forth.

62,693.—MACHINE FOR CUTTING THREADS ON BOLTS.—Schweitzer Patent Bolt Co. (assignees of Francis Schweitzer), New York city. Dated March 5, 1867. Application for reissue received and filed Nov. 30, 1867.

1st, The sliding or movable heads, N, O, in combination with the lever, F, and cutter or dies, a, b, substantially as and for the purpose described.

2d, The adjustable lever, P, provided with arms, d, c, substantially as and for the purpose set forth.

3d, The elastic rest, z, constructed and operating substantially as and for the purpose shown and described.

52,169.—MARKING WHEEL.—Horace Holt, New York city. Dated Jan. 23, 1866. Application for reissue received and filed Nov. 30, 1867.

1st, The combination of the type wheel, A, inking roller, C, and handle, B, substantially as and for the purpose described.

2d, The ink reservoir, e, in combination with the roller, C, type wheel, A, and handle, B, substantially as and for the purpose set forth.

3d, The projecting flanges, b, on the type wheel, A, constructed and operated substantially as and for the purpose set forth.

4th, The stop, h, in combination with the type wheel, A, and handle, B, substantially as and for the purpose set forth.

5th, The spring, g, in combination with the stop, h, type wheel, A, and handle, B, substantially as and for the purpose set forth.

18,872.—BORING MACHINE.—A. Wyckoff (assignee by mesne assignments of La Fayette Stevens), Elmira, N. Y. Dated Dec. 15, 1857. Application for reissue received and filed Nov. 29, 1867.

1st, The hollow cylindrical stock of an annular auger in combination with a spiral flange with such a pitch as will remove the cuttings horizontally as made and deliver them from the opening of the annular kerf, substantially as set forth.

2d, The combination of a hollow annular bit having their cutting lips projecting in the direction of the rotation of the bit, a hollow cylindrical stock and a spiral flange, substantially as and for the purpose set forth.

3d, An annular bit formed in one piece and used in combination with a hollow cylindrical stock for cutting an annular kerf in a stock of timber, substantially as set forth.

4th, The loose independent collar, f, provided with knife edges, g, g, to keep it from turning for the purpose of furnishing a bearing for the head of the bit while in operation.

5th, The sharp annular spur, c, for the purpose of centering and guiding the auger and at the same time leaving a core of the material bored in the center of the auger, in the manner specified.

6th, The oblique traversing rests, O, O, in combination with the screws, t, t, and dogs, Q, for the purpose of adjusting the timber to the auger as described and holding it firmly while under the operation of the auger.

66,603.—DREDGING MACHINE.—James H. McLean, St. Louis, Mo. Dated July 9, 1867. Application for reissue received and filed Nov. 30, 1867.

1st, The adjustable dredging frame, C, when such adjustment is produced by a derrick, l, l, and f, when constructed and operated substantially as shown and specified.

2d, The scoops, d, of a dredging machine having circular vertical cutting edges in advance of the usual lateral cutting edge, W, F, l, when constructed and operated substantially as and for the purpose specified.

3d, In combination with the dredging vessel the pins, L, for the purpose of moving the same, substantially as described.

4th, The dredger, the receiving and discharging apron and the derrick of a dredging machine all in combination, when constructed and operated substantially as shown and specified.

49,992.—SLEEPING CAR.—George M. Pullman, Chicago, Ill., assignee of Ben. Field, Alton, N. Y., and George M. Pullman, Chicago, Ill. Dated Sept. 19, 1865. Application for reissue received and filed Nov. 26, 1867.

1st, The berth, A, permanently connected with the side of the car by hinges, B, in combination with the recess to receive the same when turned up, substantially as described.

2d, The employment in combination with the berth, A, as described, of jointed suspenders to support the inner side of the berth that will fold to permit the berth to be turned up, substantially as described.

3d, The employment in combination with the berth, A, as described, of the sliding partition, I, substantially as described.

4th, The employment in combination with the berth, A, as described, of the movable head board, J, substantially as described.

5th, The employment in combination with the berth, A, as described, of a compromise to facilitate the handling of the same, substantially as described.

6th, Constructing a car seat with the back and seat cushions hinged together and disconnected from the seat frame so that the back cushion may be placed on the seat frame and the seat cushion extended to meet the seat cushion of the opposite chair, substantially as described.

48,555.—DOOR BOLT.—The Stanley Works (assignees of William H. Hart), New Britain, Conn. Dated July 4, 1865. Application for reissue received and filed Oct. 29, 1867.

1st, Making the bolt of a door or shutter bolt of sheet metal, substantially as shown and described.

2d, The bolt catch or keeper with the base plate formed with a flange at right angles, substantially as described, that it may be secured by screws parallel with the axis of the bolt, substantially as described.

29,430.—INDEX DOOR PLATE.—E. M. Montague, Boston, Mass., assignee of Nathan Ames, Saugus Center, Mass. Dated July 31, 1860. Application for reissue received and filed Oct. 15, 1866.

1st, The use in a door plate of a tablet or slate and an adjustable plate or disk having figures or readable signs or characters, for the purposes specified and set forth.

2d, In combination with the above door plate a rotating disk, C, marked with the hours and parts of an hour, as shown in Fig. 2, said disk being confined in the center to a spindle, D, which passes through the door, substantially as and for the purpose described.

3d, The spring, S, arranged, combined and operating substantially as described.

65,018.—STEAM GENERATOR GAGE LOCK.—Thomas Shaw, Philadelphia, Pa. Dated May 21, 1867. Application for reissue received and filed Oct. 11, 1867.

The construction and arrangement of whistle with gage valve whereby to indicate the sound produced by steam or water commingled or water unmingled with steam, substantially as set forth.

49,847.—TEAM GENERATOR.—John R. Eckman, Green Post office, Pa., assignee of John D. Beers, Philadelphia, Pa. Dated Sept. 12, 1866. Application for reissue received and filed Sept. 30, 1867.

1st, Making the log to be cut by driving the mandrels at each end thereof by earing them directly with the driving shaft, substantially as and for the purposes set forth.

2d, The dog, a, and its appurtenances for connecting the log with the mandrels and disconnecting it therefrom, as specified.

3d, The combination of the cylinder cutter, E, and the stripping knife mounted thereon successively and automatically, all substantially as and for the purposes 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 reissues should make immediate application to MUNN & CO., Solicitors of Patents, 37 Park Row, N. Y.