



ISSUED FROM THE UNITED STATES PATENT OFFICE

FOR THE WEEK ENDING DECEMBER 24, 1861.

Reported Officially for the Scientific American.

\* \* Pamphlets giving full particulars of the mode of applying for patents, under the new law which went into force March 2, 1861, specifying size of model required, and much other information useful to inventors, may be had gratis by addressing MUNN & CO., Publishers of the SCIENTIFIC AMERICAN, New York.

NOTE.—The following list of claims is the balance of the issue for December 24th, the first portion of which appeared in our last number.

3,020.—J. A. de Brame (assignor to himself and Jeremiah Gurney), of New York City, for improvement in Revolving Ordnance:

I claim the combination of the screw, F, constructed as set forth, so as to serve as nipple vent and cylinder presser, with the frame, A, and revolving chamber, C, all as set forth.

I also claim the combination of the perforated disk, G, with the said screw, F, frame, A, and cylinder C, as set forth.

[This invention consists in combining with the frame which contains the cylinder and carries the barrel, and on which are the trunnions of a revolving cannon, a screw so applied to screw through the said frame in rear of the cylinder and with its axis in line with the axis of the bore of the barrel, that it serves to press the cylinder directly up toward the barrel to make a tight joint between them, and, in case of the chambers of the cylinder being bored through its rear, to close and constitute a breech to the chamber, in line with the barrel.]

3,021.—J. A. de Brame (assignor to himself and Jeremiah Gurney), of New York City, for Improvement in Breech-Loading Ordnance:

First, I claim the axis pin, a, having a shoulder, r, and fitted to the cylinder frame, F, and rotating many-chambered cylinder, substantially as described, and furnished with a screw thread, receiving nut, M, applied in rear of the cylinder frame, to operate substantially as set forth, for the purpose of making a tight joint between the open rears of the chambers and a breech formed by the rear end of the cylinder-frame.

Second, The combination with the rotating many-chambered cylinder, H, of the ring, N, the lever, O, the spring-tooth, W, and the stop-pin, Z, said tooth and pin operating in combination with notches, y, in the cylinder, substantially as and for the purpose specified.

[This invention consists in a certain mode of applying a rotating many-chambered cylinder, in combination with the carriage, and with a fixed barrel, and in certain means of rotating the said cylinder to bring the several chambers successively in line with the barrel.]

3,022.—B. A. Mann (assignor to Jedediah Wilcox and H. H. Miller), of West Meriden, Conn., for Improvement in Machines for Clasp Hoops to Ladies' Skirts:

First, I claim the inclined hopper, F, and feeding plate, G, when arranged so as to be adjusted by the rods, D, I, and used in connection with a clenching device, for the purpose set forth.

Second, The bars, i, j, placed obliquely on the feeding plate, G, provided with grooves, l, and used in connection with the slot or opening, p, substantially as and for the purpose set forth.

Third, The passage way for the clasp, K, formed of the plates, m, m, attached to the head or bar, H, and groove, n, made therein, when said passage way is used in combination with the feeding plate, G, and the clenching device, and arranged therewith, as and for the purpose specified.

Fourth, The clenching device, formed of the plate, J, attached to lever, B, or its equivalent, and provided with the ledge, w, having a concave or grooved upper surface, in combination with the clasp-sustaining plates, l, l, attached to the head or barrel, H, and arranged in relation with the plates, m, m, and groove, n, substantially as and for the purpose set forth.

[The object of this invention is to obtain a machine by which the hoops of ladies' skirts may be rapidly clasped to the tapes thereof, and the work performed in a superior manner. It consists in the employment or use of a hopper and feeding plate, the latter being peculiarly constructed, and used in connection with a clenching mechanism, all being so arranged that the clasp, as the machine is operated, will be fed down in a proper manner to the clenching device, which is operated by the foot of the attendant, and made to perform the desired work, the parts to be connected, the hoops and tapes being presented to the machine by the hands of the attendant.]

3,023.—Conrad Marquardt (assignor to M. L. Marquardt), of Rhinebeck, N. Y., for Improvement in Whiffletree Attachment:

I claim attaching or connecting the whiffletrees, D D, to the double tree, A, by means of the links, E E, racks, B B, and the spring, F F, arranged substantially as set forth.

[This invention relates to a novel means employed for attaching the whiffletrees to the doubletree, whereby the whiffletrees may be readily adjusted on the doubletree, nearer or further from its bolt, and the draft regulated for either horse, as occasion may require.]

3,024.—J. F. Leitch (assignor to O. D. Carter), of Green, N. Y., for Improved Fan Blower:

I claim the circum-cribbed fan-roller scroll air passage and wind cut-off, all in combination, as and for the purpose specified.

3,025.—R. B. Pullan (assignor to J. D. Pullan), of Cincinnati, Ohio, for Improvement in Lamps:

I claim the making of the double concentric tube, a, b, constituting the inner and outer walls of air passage, c, by striking it up from a single plate of sheet metal, in the manner described.

I also claim the combination of the bayonet catch, F, with the arm, f, of the traveling nub, d, both as fasteners for the wick tube and as a means of raising and lowering the wick, substantially as described.

3,026.—E. D. Rosecrans (assignor to himself, J. S. Hull and Nelson Gates), of Cincinnati, Ohio, for Improvement in Lamps:

I claim the employment of atmospheric pressure upon the surface of the fluid in the reservoir, x x, by means of the air pump, v w, when used with the tubes, o o, f, and valve at d', in a lamp, substantially as described. I claim the air pump, v w, when used in combination with the reservoir, x x, filling tube, f, and escape tube, n, in the manner and for the purposes substantially as set forth. I claim the employment of the burner and heater, when constructed with curved wings, b b, as described, when used with the tube, a, having an opening, a, in the manner substantially as set forth.

3,027.—C. H. Sayre (assignor to himself and C. E. Barnard), of Utica, N. Y., for Improvement in Projectiles for Rifled Ordnance:

I claim the employment, in combination with a leaden or other soft metal band, applied to a cast-iron projectile, of a lining tube, b,

of wrought or malleable iron or other suitable tough or tenacious metal, attaching the said band to the head or body of the projectile, in the manner substantially as specified.

3,028.—Thomas Shaw (assignor to himself and B. Hart), of Philadelphia, Pa., for Improvement in Revolving Firearms:

I claim the combination of the pall, G, with the arm, K, substantially as described, and for the purpose set forth.

3,029.—Joseph Young (assignor to J. B. and J. Young), of Varick, N. Y., for Improvement in Machines for Removing the Husks from Corn:

I claim the combination of the cutting apparatus with the fan-blade and separator, arranged and operating substantially as and for the purpose set forth.

3,030.—Edwin Corner, of Columbus, Ohio, for Improvement in Beehives:

I claim hinging the comb frames in steps, so that the several frames may be swung open at the same time, as described, in combination with the hinged door and stationary central frame, substantially as and for the purpose specified.

3,031.—John Dean, of Worcester, Mass., for Improvement in Mats for Daguerrotypes, &c.:

I claim forming from sheets of metal mats, with their corners clipped or cutoff, and finishing the said corners so as to conform with the outer bevel, and to form supports for sustaining the said mats upon the photograph or other plates, in the manner and for the purposes set forth.

3,032.—G. F. Holland, of Leominster, Mass., for Improvement in Mode of Attaching Breeching to Shafts of Carriages:

I claim the particular combination and arrangement described, the screw, consisting of a spring clutch attached to the harness, and a fixed stud or standard permanently affixed to the shaft, the two operating together, substantially as described.

3,033.—G. W. Keene, of Lynn, Mass., for Improvement in Heels for Boots and Shoes:

I claim, as an article of manufacture, a heel formed of successive ribs, united by nails, which are driven and clinched at the time the heel is compressed, as set forth.

3,034.—Robert Kershaw, of Philadelphia, Pa., for Improvement in Gig Mills:

I claim, as an improvement on James Shaw's patent of Aug. 28, 1850, raising a nap on textile fabrics, by means of two or more card rollers, the latter being caused to revolve at such a speed, and the fabric being so guided by plain rollers that an alternate slackening and tightening of the said fabric will take place, thereby causing the wires of the rollers to penetrate the fibers, and effectually raise the desired nap.

3,035.—J. O. Doris, of Philadelphia, Pa., for Improvement in Fertilizers:

I claim the improved fertilizing compound, composed of coal ashes, animal manure, animal matter and vegetable matter, such as named, in the manner and the proportions specified.

3,036.—Sylvanus Sawyer, of Fitchburg, Mass., for Improved Fuse Hood for Shells:

I claim the employment of a hood or other equivalent device, in combination with a fuse, substantially in the manner and for the purpose described.

3,037.—Sylvanus Sawyer, of Fitchburg, Mass., for Improvement in Mandril for Loading Case Shot, &c.:

I claim, first, The loading mandril, constructed substantially as described, as an instrument for loading ordnance shells, or any other analogous use.

Second, The employment, in combination with the loading mandril, of a case or sheath, substantially as described.

3,038.—N. W. Spaulding, of San Francisco, Cal., for Improvement in Saw Gummers:

I claim, first, Pivoting or hinging the double-edged punch to the double-edged die, as recited, whereby the double shear cut may be made by the gummer.

Second, I claim, in combination with the double-edged die the double seed punch, as described, whereby the one end may be substituted for the other, as and for the purpose described.

3,039.—T. W. Adams (assignor to himself and C. H. Slicer), of Baltimore, Md., for Improvement in Men's Hats:

I claim, in the construction of men's hats, when the brims are of flexible or yielding material, giving the front and side curve to the brim, by means of a frame of cane, metal or other material, confined within or attached to the brim, at or near its circumference, substantially as and for the purpose set forth.

I claim, in combination with a hat brim, constructed as claimed in the preceding clause, the head band, O, for the purpose of preserving the symmetry of the body of the hat, substantially as described.

3,040.—R. N. Eagle, of U. S. Army, for Improvement in Saddles:

I claim attaching the stirrups to a saddle by variable points of suspension, in the manner explained, or in any other manner, substantially equivalent.

EXTENSION.

5,399.—J. F. Winslow, of Troy, N. Y., for Improvement in Rolling and Compressing Puddler's Balls. Patented Dec. 18, 1847:

I claim the method, substantially as described, of compressing or shelling puddler's balls or loops of iron into blooms, by the combination of the cam-formed compressor and two or more rollers, substantially as described.

Second, I claim the spring or yielding cheeks for setting up the ends of the blooms, in combination with the combined cam-formed compressor and rollers, substantially as described.

And, finally, I claim the feeder and discharging follower, in combination with the combined cam-formed compressor and rollers, in the manner and for the purpose described.

RE-ISSUES.

144.—A. A. Hotchkiss (administrator of Andrew Hotchkiss, deceased), of Sharon, Conn., for Improvement in Projectiles for Rifled Ordnance. Patented Oct. 16, 1855. Re-issued July 2, 1861:

I claim, first, Constructing a projectile in three parts, one of them of flexible or plastic material in the form of a ring interposed between the other two parts, formed of a harder material, and so arranged that in the act of loading or firing, or of both, the resistance or the explosive effect of the powder, acting on a larger sectional area of the part, E, than the section of the ring, G, shall cause the latter to be so expanded or distended that it shall take the impression of the grooves, and be made to fit the bore of the gun, as described.

Second, Locking or securing the expansive material to the body of an expansive projectile by means of one or more lips or projections extending outward from the body of the shot into corresponding recesses in the expansive material, as at f, or of one or more grooves or recesses in the body receive internal lips or projections from the expansive material, as at e or e'.

Third, The tail piece for securing the cap to the body of the shot, and as a guide to the cap in its forward motion, in the manner described.

145.—C. M. Wilkins, of West Andover, Ohio, for Improvement in Cheese Vats. Patented Nov. 22, 1859:

I claim, first, The arrangement of the pipe, W, heater, E, and chamber, L, substantially as and for the purpose specified.

I claim, second, The combination of the valve, N, arm, M, to which it is attached, and the lever, R, arranged for operating substantially as shown, and for the purpose described.

I claim, third, Arranging either or both the valves, N and O, in combination with their respective pipes over the firebox of the heater, substantially as and for the purpose specified.

I claim, fourth, The use of the truss braces, J J J, in the manner and for the purpose described and shown.

146.—I. P. Frink, of Newark, N. J., for Improvement in Reflectors. Patented April 17, 1860:

I claim, first, The employment of an oblong pyramidal reflector,

lined with glass or other diaphanous material, substantially as shown and described.

Second, The combination of the cover, B, with a pyramidal reflector, substantially as shown and described.

Third, The combination of the hinged adjustable section, C, with a pyramidal reflector, substantially as shown and described.

Fourth, The combination of the beads, b b', with a pyramidal reflector, substantially as shown and described.

Fifth, The combination of the cover, B, and hinged, adjustable section, C, with a pyramidal reflector, with or without the beads, b b', substantially as shown and described.

147.—Cyrenus Wheeler, Jr., of Poplar Ridge, N. Y., assignee of R. T. Osgood, of Orland, Maine, for an Improvement in Grain and Grass Harvesters. Patented Feb. 17, 1852:

First, I claim two independent driving and supporting wheels on a common axle, carrying a rectangular main frame located between said wheels, and suspended from and nearly balanced on said axle, in combination with the cutting apparatus hinged to said main frame, substantially as described.

Also, Balancing the main frame, and mounting the two driving and one main gear wheel on a common axle, in combination with a ratchet wheel for each driving wheel rigidly affixed to the axle, each driving wheel carrying a pawl that will stand in gear with its ratchet wheel when the machine is advanced, and out of gear when the machine is backed, substantially as set forth and described.

Also, The draw hangers, as points of attachment for the hinges, and to bring the hinges below the main frame, substantially as described.

Also, Arranging the hinges by which the finger beam is connected to the main frame, and thus advanced over the ground, on opposite sides of the center of motion, and at opposite ends of the main frame, substantially as and for the purpose set forth.

Also, Giving the hinges, by the finger beam is thus connected and advanced over the ground, a common center or axis of motion, though located at opposite ends of the main frame, substantially as described.

Also, So connecting the cutters with the crank that four vibrations of the cutters will be given for every single revolution of the crank, substantially as described.

Also, In combination with the two independent driving wheels, and a hinged cutting apparatus, a balance wheel, to equalize the motions of the cutters, and give steadiness of motion to the gearing, substantially as described.

Also, The combination, in a harvesting machine, substantially as described, of a hinged tongue, the main frame, two main supporting wheels, and the lined cutting apparatus, for the purpose set forth.

Also, In combination with a finger beam, an adjustable sole, substantially as described.

Also, In combination with a finger beam, and an adjustable sole, a lever, so arranged that the driver can by it, when in his seat, and with the machine in motion, raise or depress the cutting apparatus at pleasure, substantially as and for the purpose described.

148.—Cyrenus Wheeler, Jr., of Poplar Ridge, N. Y., assignee of R. T. Osgood, of Orland, Maine, for an Improvement in Grain and Grass Harvesters. Patented Feb. 17, 1852:

I claim, first, The combination with the main frame of two independent driving wheels, and a hinged cutting apparatus, whereby the cutters are kept in operation, when the machine is turned either to the right or left, and the cutting apparatus, or either end thereof, is free to conform to the inequalities of the ground, independent of the up and down motions of the driving wheels, substantially as described.

Second, The combination in a mowing machine, in the manner set forth, of the following elements, viz., A hinged tongue to draw and steady the machine, a frame to carry and support the driver and gearing, two independent driving and supporting wheels to carry the frame and give motion to the cutters, and a short finger bar hinged to the main frame that its progressive movement over the ground will be controlled by the main frame, and the upward and downward movements of the entire finger beam, or of either end thereof, independent of the other end, by the undulations of the ground over which it is drawn, substantially as described.

Third, Arranging the hinges, by which the finger beam is connected to the main frame, and advanced over the ground, above the plane of cutting, substantially as and for the purpose described.

Fourth, In combination with the main frame and finger beam, so arranging the coupling arm, Y, that while it end carrying the beam can be brought close to, so as to permit the finger beam to travel on the ground, its other end, together with the hinges, will be carried above the ground, and free of obstructions, substantially as described.

Fifth, In combination with the main frame, and its supporting wheels, the hinged cutting apparatus located on one side of the center of motion, and the gearing, located on the opposite side thereof, substantially as and for the purpose set forth.

Sixth, In combination with the main frame, mounted on two independent driving and supporting wheels and a hinged cutting apparatus connected with the said main frame, a seat for the driver, so located that the cutters will travel in advance of the driver, substantially as and for the purpose set forth.

149.—Cyrenus Wheeler, Jr., of Poplar Ridge, N. Y., assignee of R. T. Osgood, of Orland, Maine, for an Improvement in Grain and Grass Harvesters. Patented Feb. 17, 1852:

I claim, first, A hinged finger beam, so connected to or with the main frame, that while it receives its advancing movements from the main frame, it will in its upward and downward movements conform to the surface of the ground over which it passes, substantially as set forth.

Second, In combination with the main frame and finger beam, the intermediate hinged coupling arm, whereby the progressive movements of the finger beam and cutters shall be controlled by the main frame, while in their upward and downward movements they may conform to the undulations of the ground over which they pass.

Third, The short finger beam in combination with the intermediate hinged coupling arm, substantially as described.

DESIGN.

142.—Thomas Lyons, of New Britain, Conn., assignor to Russell and Erwin, Manufacturing Co., of New York City, for Design for a Horse Spur.

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