



ISSUED FROM THE UNITED STATES PATENT OFFICE

FOR THE WEEK ENDING DECEMBER 9, 1862.

Reported Officially for the Scientific American.

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**37,082.—J. B. Barcolo, of Mount Morris, N. Y., for an Improvement in Grain Separators :**

I claim the arrangement, in grain separators, of the oat board, B, having a longitudinal adjustment, in combination with the sieve, C, having an adjustable inclination, as described, and both operating conjointly with the blast, in the manner and for the purpose specified.

**37,083.—Jacob Bickhart, of Harlan, Ind., for an Improvement in Gates :**

I claim, first, The levers, F F, connected to the gate, A, through the medium of the arms, E E, the latter being connected to the gate and to the levers by means of hinges, and all arranged as shown for the purpose of opening and closing the gate, as set forth.

Second, The sliding bar, G, provided with a recess, K, at its under side in combination with the slot, I, in the top bar, A, of the gate for the purpose of serving as a fastening for the latter, as set forth.

Third, The combination of the sliding bar, G, levers, F F, arms, E E, and gate, A, all arranged as and for the purpose specified.

[This invention relates to an improvement in that class of gates which are designed to be opened by a person from a carriage or on horseback, so as to avoid the trouble and loss of time in alighting. The object of the invention is to obtain a gate of the kind specified, which may be secured in a closed state and effectually prevented from being deranged or thrown out of proper position by cattle or swine.]

**37,084.—Henry A. Burr and L. E. Rockwell, of New York City, for an Improvement in Lubricators :**

We claim the rotating cup or hollow wheel, substantially such as herein described, in combination with a shaft and journal box, and placed with its open end next to and extending over the end of the journal box, substantially as and for the purpose specified.

And we also claim, in combination with the rotating cup or hollow wheel on the shaft, and extending over the end of the journal box, the projecting flange on the end of the journal box, substantially as and for the purpose specified.

**37,085.—G. T. Comins, of Lowell, Mass., for an Improved Bed Bottom :**

I claim the longitudinal elastic wooden slats, B, provided at their ends with oblong slots, A, fitted on pins, b, in the cross rails, c, c, of the bedstead, substantially as and for the purpose herein set forth.

[This invention consists in forming the bed bottom of a series of longitudinal wooden slats provided with slots at their ends and fitted on pins in the cross rails of the bedstead, whereby a very elastic, strong and durable bed bottom is obtained, and one which may be readily applied to and detached from the bedstead and capable of having its slats inverted, so that when they become sprung and set at one side side they may be turned and brought by use into their proper form or shape.]

**37,086.—Robert Cornelius, of Philadelphia, Pa., for an Improvement in Lamps :**

I claim, first, The hook, s, t, for securing the shade to the reflector and the reflector to the lamp, substantially as above described, or for the purpose of a handle merely to the reflector.

Second, The auxiliary vertical end guide pieces, f f, for directing the air at the ends of the flame and preventing it from expanding or burning irregularly.

**37,087.—Edward Cotty, of Washington, D. C., for an Improvement in Artificial Knee Joints :**

I claim the eccentric hinge formed of two parts representing the lower parts of the femur and the tibia, in connection with the adjustable spring, u, or any other substantially the same, representing the fibers of the exterior tendons, as set forth and described.

**37,088.—S. R. Dimock, of Pittsfield, Mass., for an Improvement in Brakes for Railroad Cars :**

I claim the arrangement of the oscillating frame, E, carrying the pinion, H, with its screw shaft, e, and spring, K, and the pinion, I, with the longitudinally sliding arbor, f, in combination with the cog wheel, J, on the axle, C, of the wheels of a railroad car, all constructed and operating substantially as and for the purpose herein shown and described.

And I also claim the arrangement of the dog, p, projecting from the pin, i, on the screw shaft, e, in combination with the pinion, H, and spring, K, as described, for the purpose of preventing the spring from unwinding any further than desirable.

[The object of this invention is to accumulate the power which is exerted in stopping a car and use such power for the purpose of facilitating the operation of starting the same.]

**37,089.—L. H. Doyle, of Waterloo, Iowa, for an Improvement in Cultivators :**

I claim the combination with the beam bar, A, and standards, E E of the adjusting bars, b, in the manner herein shown and described.

[The object of this invention is to obtain a strong and durable cultivator of iron which will be light and capable of being readily adjusted or expanded and contracted laterally to suit the width of the rows of plants under cultivation.]

**37,090.—A. G. Eddy, of Ashfield, Mass., for an Improvement in Churns :**

I claim a rotary churn dasher composed of two beaters, G G, fixed in radial arms, A, attached to the dasher shaft, B, and parallel therewith, in combination with the beaters, K K, arranged to operate conjointly with the beaters, G G, as and for the purpose herein set forth.

[This invention relates to an improvement in the dasher of the churn which is of the rotary kind and consists in having radial arms at each end of the upper and lower part of the shaft, between which arm the beaters are fitted, there being four in all, two being stationary and having a radial position with the shaft, while the other two are arranged in such a manner as to have a rotary motion on their axis independent of that caused by the rotation of the dasher shaft, but produced by the rotation of the latter.]

**37,091.—A. T. Freeman, of Binghamton, N. Y., for an Improvement in Revolving Fire-arms :**

I claim the cylinder axis pin constructed of two pieces, C C', with a shoulder, c, a D-head, b, and a tongue, b', and applied in combination with the cylinder and the frame of the fire-arm, substantially as herein specified.

[This invention consists in a certain novel construction of a mode of applying the cylinder axis pin, whereby facility is afforded for re-

moving and replacing the cylinder without any danger of losing the pin.]

**37,092.—William Fulton, of Elizabeth, N. J., for an Improvement in Cooking Apparatus :**

I claim, first, The construction of the valves in extinguisher, C, or their equivalent, as shown at S and V, in Fig. 6, for producing a gas-light, and regulating the action of the flame, either partially or wholly extinguishing it.

Second, I claim the construction of cones, D, or their equivalent, as shown in Fig. 3, for spreading the flame and admitting the air thereto, in combination with the extinguisher, C, shown, in Fig. 6.

Third, I claim the cone, F, or its equivalent, as shown in Fig. 8, for producing a gas-light from the fuel when placed over cone, D, and fuel chambers, h.

Fourth, I claim the fuel chambers, h, or their equivalent, as shown in Fig. 3, in combination with pipes, g, in Fig. 4, for heating the water in reservoir, A, the whole being arranged substantially as and for the purpose herein set forth.

**37,093.—Smith, Gardner & A. B. Howe, of New York City, for an Improvement in Cleaning Rice :**

I claim one or a series of screws revolving in a cylinder and operating in conjunction with the disk or disks, substantially in the manner described and for the purposes set forth.

**37,094.—William Gardner, of New York City, for an Improved Folding Metallic Bedstead :**

I claim the folding mosquito frame, A, in combination with the bedstead frame, a, in the manner shown, so that said frames, A, fold clear of each other, as set forth.

I claim the variable braces, fitted as specified, in combination with the folding head or foot guards and bottom or frame, a, as set forth, whereby the inclination of said head or foot guards can be varied, as specified.

**37,095.—Valentine Haefner, of Dobb's Ferry, N. Y., for an Improved Artificial Cellar :**

I claim the arrangement of two ice-boxes, C F, one on the top and one in the interior of a cellar or inclosed space, A, in combination with the tubes, D and E, all constructed and operating substantially as and for the purpose shown and described.

[The object of this invention is to lower, by artificial means, the temperature in a cellar or other inclosed space to such a degree that beer and other fermentable liquors can be preserved in the same with perfect safety, and also that the operation of brewing beer can be carried on throughout the whole year in the hot as well as in the cold season.]

**37,096.—E. P. Haskell, of Harlan, Ind., for an Improved Machine for Bending Wood :**

I claim the combination of the sliding pressure roller, D, slide, B, screw, C, plate, F, and guide, J, with the rotary pattern, G, in the manner herein shown and described.

[This invention consists in the employment of an adjustable pressure roller in connection with a pivoted pattern of semi-circular form and guides and clamps, all arranged in such a manner as to admit of the desired work being performed very expeditiously and with but little labor.]

**37,097.—Z. G. Hurd, of Eldorado, Iowa, for an Improved Mill-stone Dresser :**

I claim, first, The arrangement of the hinged holder, H, in combination with the trip lever, A, and pick, B, constructed and operating substantially as and for the purpose specified.

Second, The arrangement of the V-shaped seat, p, and triangular wedge, p', in combination with the holder, H, and pick, B, as set forth.

Third, The arrangement of the spring lever, I, in combination with the trip lever, A, as and for the purpose described.

[This invention consists in the employment of a pick arranged in a trip lever, which is fulcrated on a laterally sliding arm and to which an oscillating motion is imparted by a trip wheel which is connected by a forked rod with said laterally sliding arm, and partakes of its motion in combination with a longitudinally sliding frame, in such a manner that the pick can be made to act on the entire surface of a mill-stone, and the latter can be dressed with little trouble and exertion and in a much shorter time and more uniform than by hand.]

**37,098.—E. M. Judd, of New Britain, Conn., for an Improvement in Railroad Car Brakes :**

I claim the barrel, f, and ratchet wheel, g, in combination with the lever, h, and pawls, i k, substantially as and for the purposes specified.

**37,099.—E. M. Judd, of New Britain, Conn., for an Improvement in Trucks for Railroad Cars :**

I claim arranging a series of axles, in a truck for cars, parallel to each other and fitted with the wheels at opposite ends of the alternate shafts, substantially as and for the purposes specified.

**37,100.—Thomas Lane, of San Francisco, Cal., for an Improvement in Potato-diggers :**

I claim, first, The arrangement of the shovel, O, screw bolts, R R, pinions, K k, m, crank, o, and axle, P, for raising and lowering the shovel, in combination with the frame, A, and revolving buckets, b D, operating in the manner and for the purpose described.

Second, The shaking shoe, K, chute board, e, and revolving buckets, b D, in combination with the shovel, O, and hoppers, M, provided with tilting bottoms, a, when arranged and operating in the manner and for the purpose described.

[This invention relates to certain improvements in machines for digging potatoes and onions and putting the same into racks, and it consists in the manner of arranging the scoop or shovel so that it can be adjusted to enter the ground at a greater or less depth; also in the peculiar arrangement of the shaking shoe and hoppers.]

**37,101.—Mark Levy, of New York City, for an Improvement in the Manufacture of Illuminating Gas :**

I claim the arrangement of mixing the gases, generated in separate retorts, from wood and from oil, or its equivalent, and then re-heating the thus-mixed gases before the same are allowed to pass into the purifier and gasometer, in the manner and for the purpose substantially as described.

**37,102.—Dioclesian Lewis, of Boston, Mass., for an Improved Book Rack :**

I claim, first, The combination of the rack, 1, 2, brace 3, and strap, 5, as hereinbefore set forth.

Second, The combination with the rack, 1, 2, of the bar, 7, as described.

Third, The combination with the rack, 1, 2, and bar, 7, of the fingers, 9, 9, for the purpose and in the manner set forth.

**37,103.—D. G. Littlefield, of Albany, N. Y., for an Improvement in Stoves. Ante-dated Nov. 26, 1862 :**

I claim the mill grate, A, B, constructed and operating substantially as and for the purposes herein specified.

I also claim the construction of the fire-pot, D, with outwardly projecting combustion mouths or outlets, A, opening immediately into and in combination with the chamber, E, for the purpose herein specified.

I also claim the form and arrangement of the case, M, in relation to and in combination with the fire-pot, D, and chamber, E, substantially as and for the purposes herein set forth.

I also claim compelling the draught to pass upward through the supplying cylinder, H, while kindling the fire in the stove, and immediately previous to as well as during the act of replenishing the cylinder with coal, for the purpose specified, and this irrespective of the special construction by which the same is effected.

I also claim the central chamber above the supplying cylinder, H, communicating with the exit flue, p, whereby any air that passes into said chamber by the cover, R, is conveyed to the exit flue, as specified.

I also claim the divided flue, M, around the chamber, I, and forming a communication between the front of the chamber, E, and the exit flue, p, whereby the products of combustion are conveyed to the chimney without interfering with the action of the said chamber, and the radiation of heat from the stove is properly distributed, as herein set forth.

I also claim the sliding plate or valve, N, so arranged that it necessarily closes the opening, o, from the chamber, E, to the flue, K, when

the aperture, n, from the supply cylinder, H, to the central chamber I, is opened, and vice versa, whereby the draught is directed at pleasure, either up through the chamber, E, or the supply cylinder, H, for the purposes herein set forth.

**37,104.—David Maydole, of Norwich, N. Y., for an Improvement in Skates :**

I claim the hook, F, attached to or formed on the plate, E, at the back part of the skate, in combination with the plate, G, attached to the heel of the boot or shoe and provided with parallel slots, c, c, or any equivalent staple to receive the hook, F, when used in connection with any suitable fastening for holding the front of the skate against the sole of the boot or shoe, substantially as and for the purpose specified.

**37,105.—O. W. Morley, of Ellisburgh, N. Y., for an Improved Buckle :**

I claim the combination of the hinged plate, B, and crossbar, b, with the frame, A, and pin, C, in the manner herein shown and described.

**37,106.—Morgan Payne, of Cardington, Ohio, for an Improvement in Churns :**

I claim the shaft, A, in connection with the rod, B, and dashers, e e, and the arm, C, with the dashers, d d, the whole arranged in the manner and for the purpose herein specified.

**37,107.—S. S. Putnam, of Dorchester, Mass., for an Improvement in Machines for Making Nails for Horse-shoes :**

I claim, first, In combination with a revolving cam for operating four hammers in pairs of two, the arranging of said cam behind the pivots of the hammer helves, for the purpose of protecting said cam and its cooperative parts from the scales and heat of the nail-roads and hammers, and thus protecting them from cutting, wearing and undue friction, by the drying or burning of the oil, substantially as described.

Second, I claim the method substantially as herein described of operating the cutter, n, viz., by the lever, M, and slotted lever, O.

Third, I claim the block, T, and its connections for stopping and holding the hammers, substantially as specified.

Fourth, I claim regulating the throw of a pair of hammers by applying thereto the power of a supplementary spring, substantially in the manner set forth.

Fifth, I claim operating the gage lever, V, by the lever U, which forms part of the device for arresting the hammers.

**37,108.—S. J. Reeves, of Philadelphia, Pa., for an Improvement in Fagots for Wrought Metal Cannons, Hydraulic Pumps, &c. :**

I claim the making of the bore on which the sheets are wound and welded of sufficient size to margin the bore of the gun when finished, substantially as and for the purpose described.

**37,109.—James Robinson, of Barnegat, N. J., for an Improved Cable Stopper :**

I claim the arrangement of the hinged claw, A, in combination with the rod or stem, B, cog, C, and foot lever, D, all constructed and operating substantially as and for the purpose shown and described.

[This invention consists in the arrangement of a hinged forked claw, the shank of which catches under a hinged cog, which is connected to and operated by a foot lever, in such a manner that the claw when brought to catch over a link of the cable retains the same firmly and prevents it running out, and that, by depressing the foot lever, the shank of the claw is released and the cable freed.]

**37,110.—J. F. Rochow, of New York City, for an Improvement in Hoisting Apparatus :**

I claim the arrangement of the differential wheels, a, b, in combination with the box, C, main shaft, B, tumbling shaft, D, with pinions, c, d, and drum, E, all constructed and operating substantially as and for the purpose herein shown and described.

And I also claim the tumbling shaft, D, when the same is arranged with two wheels or pinions, c, d, to operate in combination with the wheels, a, b, substantially in the manner and for the purpose set forth.

**37,111.—Anson Rowe, of Atalissa, Iowa, for an Improvement in Grain Separators :**

I claim, first, The plate, K, placed on or over the upper riddle, H, and in relation with the feed-board, D, and fan, L, as and for the purpose specified.

Second, The combination of the sieve, M, riddles, H H, plate, K, feed-board, D, and fan, L, arranged for joint operation as and for the purpose herein set forth.

[The object of this invention is to obtain a grain separator of simple construction, which will operate more efficiently than those previously constructed, and be not liable to get out of repair. Devices of this kind as hitherto constructed have generally required considerable power to operate them, and have been quite liable to become deranged by use, the screens liable to choke or clog, and many impurities allowed to pass off with the grain—difficulties which it is believed are fully obviated by this invention.]

**37,112.—Thomas Sault, of Seymour, Conn., for an Improved Machine for covering Wire with Gutta-Percha, Rubber, &c. :**

I claim, first, The combination of a cylinder, A, a hollow screw, B, and a central mandrel, C, passing through the hollow screw, substantially as herein specified.

Second, The construction of the cylinder, A, containing the screw, B, with a throat, c, and internal cavity, b, arranged substantially as and for the purpose specified.

Third, Feeding the wire to be covered with the gum by the movement of the gum itself produced by the screw, B, or other device for forcing it through the forming die, substantially as herein specified.

[The main object of these improvements is to effect the covering of wire of any length with caoutchouc, gutta-percha, or the allied gums or compounds thereof, or the manufacture of tubing of any length of such gums or compounds by an uninterrupted operation. The principal portion of the machinery to which the improvements relate, consists of a screw working in the bore of a cylinder into which the gum is fed, and from which it is forced by the screw through or into a die of the necessary size and form to produce the exterior of the covering tube or other article to be manufactured. For the covering of wire or the manufacture of tubing, the screw is made hollow for the reception of a mandrel through which the wire to be covered passes, or upon which the interior of the tubing is formed, and it is in the combination of the mandrel with the so-applied screw and cylinder that one part of the invention consists. Another improvement consists in a peculiar construction of the cylinder, whereby it is enabled to be supplied with gum without stopping the operation of the screw, and thereby enabled to operate continuously to make a tube or cover or wire of any length, or to fill a mold of any size. A further improvement consists in feeding the wire to be covered with the gum, by the action of the aforesaid screw or other forcing apparatus upon the gum itself.]

**37,113.—George Sherwood and H. M. Sherwood, of Chicago, Ill., for an Improvement in fastening the Covers of Ink-wells :**

We claim fastening the covers of ink-wells thereto by means of pins, a, a, with enlarged heads acting against the inclined edges of concentric slots, ff, in the raised flange, E, of the well, substantially as and for the purpose herein specified.

**37,114.—W. C. Shipherd, of Saratoga Springs, N. Y., for an Improvement in Lasts :**

I claim the spring catch, E, in combination with the polygonal plate, E', said parts being constructed and arranged substantially as and for the purpose specified.

[This invention relates to a new and improved mode of attaching the removable block of the last to the latter, in such a manner that it

may be detached from the last by the hook which is usually employed for drawing the last from the boot or shoe, thereby avoiding the trouble and delay hitherto attending the loosening or detaching of the block from the last, previous to the withdrawing of the latter from the boot or shoe.]

37,115.—Edward Stern, of Dorchester, and J. S. Newell, of Newton, Mass., for an Improvement in Button-hole Cutters:

We claim a button-hole cutter as made with a triangular or trapezoidal bed, B, so arranged and applied with respect to the cutter, A, as to be capable of being moved in one plane and transversely of such cutter, substantially as described.

We also claim the adjustable gage, K, in combination with the bed, B, and the cutter, A, arranged in manner and so as to operate together substantially as specified.

We also claim the auxiliary or secondary gage, L, in combination with the cutter, A, and the bed, B, the latter being constructed and arranged so as to operate substantially as specified.

37,116.—Le Roy Sunderland, of Boston, Mass., for an Improvement in Spermatorrhoea Rings:

I claim, first, The use of an adjustable elastic spring lever, or levers armed with sharp points or teeth, and arranged substantially as herein described and for the purpose set forth.

Second, The combination of the ring, A, and spring lever or levers, B, arranged together, substantially as herein described, and forming a seminal guard to be used for the prevention and cure of spermatorrhoea.

37,117.—W. R. Thomas and M. Emanuel, Jr., of Catsaugua, Pa., for an Improved Composition for Blasting Powder:

I claim the blasting compound made of nitrate of soda, sulphur, chlorate of potash, starch and ground bark, or other absorbent carbonaceous material, substantially in the manner and in about the proportions herein specified.

37,118.—Joel Webster, of Brooklyn, N. Y., for an Improved Sad-iron:

I claim the thumb-lever, M, in combination with the uprights, E and E', and main portion, A, substantially as described.

37,119.—L. C. White, of Waterbury, Conn., for an Improved Fastening for Lamp Chimneys:

I claim, first, The peculiar construction of hawks-bill, B, or its equivalent, as shown in Fig. 1, Fig. 2, Fig. 3 and Fig. 4, and the mode of throwing it either backward or forward, and holding it in either position by means of the wire-lever, J, or its equivalent, the ends of said lever being loose in perforations, h and k.

Second, I claim the middle projectile or tooth, f, or its equivalent, as shown in Fig. 1, Fig. 2 and Fig. 4, which throws the hawks-bill forward by gently pressing the base of the chimney upon it, independently of the upper projectile, e, which secures the chimney to the burner.

Third, I claim the position and the peculiar construction of the lever, J, or its equivalent as shown in Fig. 1 and Fig. 2, which throws the hawks-bill either backward or forward.

Fourth, I claim the hawks-bill, B, or its equivalent, in combination with the mode of attaching it to the burner without solder, by means of the bolt supports, d, formed in the shell of the burner as shown in Fig. 5, the whole being arranged substantially as and for the purpose herein described.

37,120.—W. J. Wilcox, of New York City, for an Improved Apparatus for Cooling Lard:

I claim, first, The application or use, in combination with an apparatus for refining lard, of a worm, C, enclosed in a case, D, constructed and operating substantially as and for the purpose herein described.

Second, The arrangement of the regulating cock, g, in combination with the worm, C, case, D, overflow pipe, e, heating pan, A, and cooling vat, E, all constructed and operating as and for the purpose specified.

37,121.—F. R. Wilson, of Auburn, Cal., for an Improvement in Machines for Upsetting Tires:

I claim the jointed levers, B B, in combination with the adjustable guides, J, J, the levers, B B, being connected to a pivoted bar, D, having a lever, E, attached and all arranged to operate as and for the purpose herein set forth.

This invention consists in a novel and improved arrangement of levers and adjustable guides, whereby tires for wheels may be very expeditiously upset or shrunk to the proper size without cutting and rewelding, and the machine readily adapted for operating upon tires of different sizes or diameters.]

37,122.—W. W. Wright, of Killingly, Conn., for an Improved Shoe Knife:

I claim combining with the blade of the knife, a guard and wheel or tumbler, in the manner set forth, viz., by forming the guard as described, and screwing it to the blade of the knife with the dent in the flat end thereof, on the point of the knife and the bar at the other end thereof, resting on the wheel or tumbler, as described.

37,123.—W. P. Barker (assignor to himself, James Van Buren and Nelson Burchard), of Grand Rapids, Mich., for an Improvement in Grain-binders:

I claim, first, The traveling or reciprocating hooks, H H, attached to the endless belts, E E', in combination with the arm, J', provided with the nippers, m m', and the elastic band, C\*, attached to the bar, A', and arm, J', all arranged to operate as and for the purpose set forth.

Second, The shafts, V W, the former being provided with the screw, v, fork, h', and the latter provided with the hook, Y, knife or cutter, X, and the fork, w, said shafts being operated as shown, and in connection with the arm, J', and the cord or rope, K, for the purpose specified.

Third, The combination of the hooks, H H, arm, J', provided with the nippers, m m', and the elastic band, C\*, attached to the cord or rope, K, all combined and arranged to operate as and for the purpose herein set forth.

[The object of this invention is to obtain a device for binding grain, which may be connected to and arranged to operate in conjunction with an ordinary reaper, so that the grain as cut by the reaper may be gathered into gavels and bound into sheaves; the latter being discharged from the machine, and the whole work performed automatically and operated by the draught movement of the machine.]

37,124.—J. H. Baird, of Waterbury, Conn., assignor to Jedediah Wilcox, of New York City, for an Improvement in Apparatus for Applying Clamps to Skirts:

I claim the combination of a hoop-rest, a clasp-feeder, a clasp-supplier, and a moving clasp-carrier, the combination as a whole operating substantially as set forth.

I also claim the combination of a clasp-carrier with the clasp-supplier, in such manner that the clasp-carrier forms a gate or stop, to prevent the escape of clamps, the combination as a whole operating substantially as set forth.

I also claim the combination of a clasp-carrier with the hoop-rest, in such manner that the clasp-carrier forms one of the members by which the clasp is clinched upon the hoop.

37,125.—W. F. Cochrane (assignor to himself and Warder & Child), of Springfield, Ohio, for an Improvement in Grain Threshers and Separators:

I claim, first, Mounting the fans directly upon the cross-shaft or counter-shaft, from which the remainder of the mechanism is driven, substantially in the manner described for the purposes set forth.

Second, The combination of the line-shaft, counter-shaft and fans, substantially as and for the purpose described.

Third, Driving the threshing-cylinder directly from the fan-shaft, substantially in the manner described.

37,126.—W. F. Cochrane (assignor to himself and Warder & Child), of Springfield, Ohio, for an Improvement in Grain Threshers and Separators:

I claim, first, The combination of the grain-belt, straw-carrier and picker-shaft, when arranged and operated in the manner and for the purpose set forth.

Second, A supplementary threshing-cylinder, located beneath the grain-belt for the purpose of threshing out any heads which may es-

cape the threshing-cylinder, when arranged and operating as herein described.

Third, The combination of the supplementary cylinder and the fans with the inclined boards, J J', substantially in the manner described for the purpose set forth.

Fourth, The combination of the inclined boards, J J', and regulating-valve, K, with the fans, D, as described for the purpose of regulating the blast, as set forth.

37,127.—W. F. Cochrane (assignor to himself and Warder & Child), of Springfield, Ohio, for an Improvement in Grain Threshers and Separators:

I claim, first, Mounting the blades of the fans directly upon the counter-shaft and inside the driving pulleys, substantially in the manner described for the purpose set forth.

Second, Driving the threshing cylinder directly from the fan-pulleys, substantially as and for the purposes set forth.

Third, The combination of the main portion of the driving mechanism within the fan-case, for the purpose described.

Fourth, Making a portion of the fan case removable, as described, for the purpose of affording access to the driving mechanism.

37,128.—W. F. Cochrane (assignor to himself and Warder & Child), of Springfield, Ohio, for an Improvement in Grain Threshers and Separators:

I claim, first, Mounting the line-shaft, through which motion is communicated to the mechanism from the prime mover, in or upon a swinging bracket pivoted to the countershaft, and capable of twining freely round it in a vertical plane, substantially in the manner described.

Second, Inclosing the swinging bracket within the fan case, substantially in the manner and for the purposes described.

Third, The combination of the bracket and the frame, in combination with a line-shaft having vertical play, substantially as described and for the purpose set forth.

37,129.—W. F. Cochrane (assignor to himself and Warder & Child), of Springfield, Ohio, for an Improvement in Grain Threshers and Separators:

I claim, first, The combination of the diagonal braces, b2, and screw rods, b3 b4, with the longitudinal beams, b, in the manner and for the purpose described.

Second, The combination of the dispersing boards and supplementary cylinder, substantially as described and for the purpose specified.

Third, Mounting the shafts and gearing by which the straw-carrier and picker-shaft are driven in a solid metallic frame on each side of the grain-belt frame, as and for the purpose described.

37,130.—W. F. Cochrane (assignor to himself and Warder & Child), of Springfield, Ohio, for an Improvement in Grain Threshers:

I claim, first, Mounting the fans directly upon the cylinder shaft, and inside the threshing cylinder, substantially in the manner described, for the purposes set forth.

Second, The combination of an open-barreled cylinder having fans in its ends, with the blast spouts, when arranged and operating substantially in the manner herein described, for the purpose specified.

37,131.—W. F. Cochrane (assignor to himself and Warder & Child), of Springfield, Ohio, for an Improvement in Grain Threshers and Separators:

I claim, first, Constructing an independent frame or trough inside the grain-belt frame, substantially in the manner described, so as to form a space in which to locate the driving pulleys, &c.

Second, In combination with an independent frame, I claim driving the grain-belt, straw-carrier, heater and picker from the conveyer-shaft, substantially in the manner and for the purpose described.

37,132.—W. F. Cochrane (assignor to himself and Warder & Child), of Springfield, Ohio, for an Improvement in Grain Threshers and Separators:

I claim, first, The combination of the counter shaft and swinging jack, when arranged and operating substantially as and for the purpose set forth.

Second, The combination with a swinging jack of both a horizontal and a vertical driving-shaft, substantially in the manner and for the purposes described.

Third, The combination of the pipe-boxes in which the counter-shaft turns, with the side branches of the swinging jack, substantially in the manner described, for the purpose of relieving the shaft from the weight of the jack, as set forth.

37,133.—J. H. Harnly (assignor to himself, Jacob Harnly, G. R. Hendrickson and H. B. Dunlap), of Penn Township, Pa., for an Improvement in Rakes for Harvesters:

I claim, first, The combined action of the crank arm and its clutch, C, by means of the spring, c, pressing it against the lugs on the axle, A, and the terminus of the rod, E, connected with the ratchet lever, D, g, pressing the clutch out, thereby jointly controlling the crank motion.

Second, I claim the combined foot lever, G, with its rod, F, operating against the jointed ratchet lever, E, D, g, for regulating the speed of the rake at will, applied in the manner specified.

Third, I claim the rack bar, B, with its hook at one end and eccentric attachment to the axle at the other, in combination with the ratchet lever, D, g, click rod, O, and connecting rod, M, arranged in the manner and for the purpose specified.

Fourth, I claim the rock-shaft, U, with its curved rake support, W, in combination with the tripper-rod, F, rods, O M, and notched post, T, operating in the manner and for the purpose specified.

Fifth, I claim the arrangement and combination of the crank arm, C, with the connecting rods, K L, vibrating bar, I, and notched spring rod or holder, z, all operating in unison with the rack bar, B, by the revolution of the driving wheel on its axle, A, in the manner set forth.

37,134.—G. H. Johnson (assignor to himself and W. S. Sampson), of New York City, for an Improvement in Grain Bins:

I claim, first, The combined arrangement of the smaller cylinders, B, with the larger ones, A, for the purposes of utilizing the space between the larger ones for storage purposes, and rendering the whole structure more capable of sustaining the pressure of the contents of the cylinders, substantially as described.

Second, I claim the method of interlocking the layers of horizontal board plates, a, b, in the manner and for the purposes described.

Third, The employment of ventilating flues, C, in combination with the grain bins, substantially as described.

37,135.—S. N. Long (assignor to the Chatham Lock Company), of South Chatham, Mass., for an Improvement in Locks:

I claim the bolt, C, formed of a series of tumblers a, in combination with a key provided with an extension bit, F, and a cam-shaped pin or plate, e, or its equivalent, all arranged as and for the purpose herein set forth.

37,136.—Moses Marshall, of Lowell, Mass., assignor to S. S. Bucklin, of Brookline, Mass., for an Improved Machine for Pegging Boots and Shoes:

I claim the combination of the sleeve, G, with the plunger, B, and spring, C, operating in the manner substantially as described.

37,137.—John McCall, of London (Houndsditch), and B. G. Sloper, of Walthamstow, England, assignors to C. J. Underwood and W. J. Underwood, of Boston, Mass., for an Improvement in Preserving Articles of Food. Patented in England Oct. 24, 1861.

We claim the method of preserving articles of food by the introduction of sulphite of soda or its equivalent into the cans in which the articles are preserved, in the manner and for the purpose herein described.

37,138.—Franklin Perrin, of Cambridge, Mass., assignor to himself and D. C. Perrin, of Roxbury, Mass., for an Improved Manufacture of Palm-leaf Fabric:

I claim the new or improved fabric or manufacture, as made with warps of spun thread in pairs, and its weft of strips of palm leaf arranged together, substantially as described.

37,139.—W. S. Sampson (assignor to himself and G. H. Johnson), of New York City, for an Improvement in Grain Bins:

I claim forming the bricks, or block of composition with tongues and grooves, or their equivalents, substantially as described, in combination with the plunger, B, and rods, a, as and for the purposes herein fully described.

37,140.—A. C. Ainger and S. W. Webster (assignors S. W. Webster, aforesaid), of Stockholm, N. Y., for an Improvement in Cheese Frames:

We claim the removable back, h, constructed as described, and employed in connection with the pivoted frame, d, e, f, in manner substantially as and for the purposes set forth.

[The subject of this invention is a pivoted frame of shelves, adapted for the storing of cheeses in such a manner that they may be exposed to a free circulation of air, and may be turned, rubbed, greased and receive all other necessary attention without the necessity of lifting them by hand from the time they are made until ready for market.]

37,141.—E. S. Maynard, of Hancock, N. Y., for an Improvement in Sleigh Brakes:

I claim the combined arrangement of the brake, A, with lever, B B, and jointed bars, F T, when connected with the cogged wheel, Q, and roller moving in the slot, D, the whole operating and constructed in the manner described.

37,142.—L. F. Smith, of Stonington, Conn., for an Improvement in Tools for forming the Necks of Bottles:

I claim, first, The lever, E, constructed, used and operated substantially as and for the purpose specified.

Second, The combination of the lever, E, with the center piece, D, the several parts being arranged as specified for forming shoulders in bottle necks, as set forth.

37,143.—G. G. Evans, of Philadelphia, Pa., for an Improvement in Shoulder Straps for Officers:

I claim, first, The combination of the border plate, A, the detachable back plate, B, the studs, c, and eyelets, e, arranged and operating substantially as described.

Second, In combination with the above, the stud composed of the slotted link, L, tube, m, spring, n, collar, P, and screw, R, substantially as described.

37,144.—Joseph Ridge, of Richmond, Ind., for an Improvement in Kerosene or Coal-oil Lamps:

I claim, first, The diaphragm, D, and cylinder, M, united in one piece of glass, substantially as represented, and constructed in the manner and for the purpose herein set forth.

Second, I claim the said diaphragm and cylinder, in combination with the base and metallic frame, support and guard, and short chimney, C, substantially in the manner and for the purpose represented by the drawing and model, and set forth in this specification.

37,145.—E. D. Williams of Philadelphia, Pa., for an Improvement in Elongated Bullets:

I claim, first, The combination with elongated expanding bullets of a pin, C, and expanding disk, B, applied and substantially as herein specified.

Second, Fitting the pin to the cavity of the bullet in the manner substantially as herein specified, whereby the expansion of the bullet is caused to commence at the front part of its expanding portion and to be gradually continued toward the rear, as herein set forth.

## RE-ISSUES.

1,358.—Joseph Renard, of Lyons, France, for an Improvement in Treating Aniline to produce a Red Coloring Matter or Dye. Patented April 8, 1859:

I claim the treatment of aniline, in combination with a metallic salt, or the equivalent thereof, with heat, substantially as described, to produce a red, in contradistinction to a purple or bluish coloring matter or dye, as set forth.

1,359.—Joseph Renard, of Lyons, France, for an Improved Red Dye from Aniline. Patented April 8, 1859:

I claim the new substance or red dyeing matter produced by subjecting aniline and a metallic salt, or the equivalent thereof, to a high temperature, substantially as described.

1,360.—N. A. Rhoads, of Waterbury, Vt., for an Improved Clothes-wringer. Patented March 11, 1862:

I claim a clothes-wringing machine provided with elastic rollers, the construction of either or both of such rollers, or in other words, the arrangement of their operating surfaces, so that they may be at a greater distance asunder at their middle than at their ends, the whole being arranged substantially in the manner and for the purpose as herein described.

I also claim the arrangement and combination of the connection and bearing bar, G, with the rubber springs, g, the shaft, H, and its cams, h, h, the whole being applied to the frame, A, and its rollers, D D', substantially as described.

I also claim the arrangement of the shaft, L, and its arms, l, l, with reference to the rollers, D D', the frame, A, and the two bars, J, J, or their equivalents, affixed to the said frame.

1,361.—N. A. Rhoads, of Waterbury, Vt., for an Improved Clothes-wringer. Patented March 11, 1862:

I claim the connection of each of the bars, J, J, with the frame, A, A, by means of the adjustable screw, M, whereby the distance of the bar, J, from the frame, A, may be increased or diminished as circumstances may require, substantially as herein set forth.

1,362.—C. A. Miller, of Philadelphia, Pa., assignee of W. S. Kirkham, of Branford, Conn., for an Improvement in Locks and Latches. Patented March 15, 1859:

I claim the keeper, D, having two inclined planes in combination with a latch, so pivoted to a janus-faced lock, and so arranged in respect to the inclination of the keeper, that whether the latter be applied to a left or right-handed door casing, one or other of the said inclined planes shall, on closing the door, cause the latch to move on its pivot, and direct the outer end into or behind the keeper, as described.

## DESIGNS.

1,675.—J. W. Burt, of New York City, for a Design for an Ankle.

1,676.—J. B. Chargois, of New York City, for a Design for a Trade-mark.

1,677.—David Foyer, of Dover, N. H., assignor to Abraham Folsom & Son, of Boston, for a Design for a Floor-cloth Pattern.

1,678.—H. S. and A. S. Hubbell, of Buffalo, N. Y., for a Design for a Cook's Stove.

1,679.—H. S. and A. S. Hubbell, of Buffalo, N. Y., for a Design for a Cook's Stove.

1,680.—H. S. and A. S. Hubbell, of Buffalo, N. Y., for a Design for a Cook's Stove.

1,681.—N. E. Russell, of New York City, for a Design for the Handles of Table Cutlery.

1,682.—J. W. Schreiber, of New York City, for a Design for a Lamp Chimney.

1,683 to 1,694.—H. G. Thompson, of New York City, assignor to the Hartford Carpet Company, for 12 patents for Designs for Carpet Patterns.

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