



LIST OF PATENT CLAIMS
Issued from the United States Patent Office.
FOR THE WEEK ENDING MARCH 21, 1855.

FOLDING LIFE BOATS—E. L. Berthou, of Farnham, Eng.
Patented in England June 12, 1851. I claim hinged longitudinal ribs of the two sides to the stem and stern post...

SWIVEL FOR WATCH CHAINS—Elihu Bliss, of Newark, N. J.
I claim the specific arrangement of the joint of the swivel in the manner and for the purpose substantially as set forth.

WAGON BRAKE—J. E. Blodgett, of Hannibal, N. Y.
I do not claim the originating of the idea of wagon brakes, or their invention, claiming only certain improvements in the construction...

KNOPS FOR FASTENING CURTAINS AND FOR OTHER LIKE PURPOSES—W. Z. W. A. J. W. Chapman, of New York City.
I claim the combination of the eyelet mentioned, or its equivalent, with a shank or knob of metal or other material that is covered, capped, encircled, or so connected with india rubber...

SELF-VENTILATION FOR RAILROAD CARS—V. P. Corbett, of Corbettsville, N. Y.
I claim forming a series of ventilating holes, C C C C, in the sides of the car between the ceiling and windows, B B B B, and providing in said holes vertical ventilating flues, D D D D, which are arranged so as to be caused to revolve by the rapid moving of the car through the atmosphere...

DEVICE FOR AIR CHAMBER OF PUMPS—John B. Cowing, of Seneca Falls, N. Y.
I claim the combination and arrangement with the air chamber of vessel, F, of the pump, having its delivery spout or outlet below, or at or near the bottom of said chamber, substantially as shown and described...

MACHINE FOR CUTTING BARREL HEADS—A. H. Crozier, of Oswego, N. Y.
I claim the described machine for cutting out and forming the heads of barrels and other similar articles, first in arranging and operating two rotating cutters so as to cut scores in the opposite sides of the obtuse heading at the same time, one cutter being arranged and operated so far in advance of the other that the latter cutter may cut so far into the heading and into the score made by the former without interfering with it...

PUMP—C. G. Curtis, of Springfield, Mass.
I am aware that induction and eduction valve chambers and valves, with their case, have been arranged on the side of a horizontal pump barrel, midway between its two ends, the barrel being made to communicate with the valve case by two pipes leading from the said case respectively into the two ends of such barrel.

SHOT CARTRIDGE—Abbot R. Davis, of East Cambridge, Mass.
I am aware that a shot cartridge has been with a wavy wire frame filled with shot and loose sand, and covered by paper pasted around it, I therefore do not claim such a mode of making a cartridge.

FEEDING FUEL TO FURNACES—Howard Delano, of Syracuse, N. Y.
I claim the combined use of the feed box and grate bars or cut-off for feeding in fuel into the under part of the burning mass, in the fire box, or their mechanical equivalents, as described.

RACKS AND ELEVATORS—A. H. Gaston and J. S. Smith, of Sunbury, O.
I claim the endless belts, D D, racks, L, in combination with the rollers, K, revolving forks, P P, for the purpose of raking and loading hay, as set forth.

BRECH-LOADING FIRE ARMS—A. T. Watson, of Castleton, N. Y.
I claim the mechanical combination and arrangement of the cylinder, G, the bent lever, H, and the forcing standard, J, J', acted upon by the rod, J, and spiral spring, K, also the spring, I, by which J, being drawn back, the cartridge constructed and arranged as described, is released from the pressure of I, and the cylinder is made to pass over the next succeeding cartridge, and the pressure

of the finger being removed from J, the cartridge is firmly gripped by I, and carried forward toward the chamber by the action of K and J, pushing before it also the next preceding cartridge ready to be deposited in the chamber upon the raising of the breech piece; which operation being repeated after each discharge in connection with raising the breech piece, secures a measured supply of charges from the magazine in the stock to the chamber to the extent, and with a facility not heretofore attained in breech-loading fire arms. I claim also the forming of the breech piece of a segment of a circle, having the concave space, O, for the bottom of the chamber with its central point of depression in the line of the axis of the barrel.

EXTENSION TABLES—Joel Haines, of West Middlebury, Ohio.
I claim the construction and arrangement of the top so as to wind up in the case, substantially as described; it being understood that I do not claim in general the device of the chain of slats to wind up, as that has already been used in window blinds and shutters, but only the peculiar purposes for which it is applied to the table top, as set forth.

VALVE FOR HYDRAULIC RAM—Thomas Hanson, of New York City.
I claim the mode substantially as specified, of forming a connection between the driving chamber and a vessel of water rams, the tube, and flexible cup placed within it, substantially as and for the purpose specified.

LAMPS—Elbridge Harris, of Boston, Mass.
I claim using white glass lamps of any form, reservoirs of metal which are provided with the usual tubular or burning common oils, or adapted by means of protectors to burn any fluid combustible.

SHIP AUGERS, &c.—I. W. Hoagland, of Jersey City, N. J.
I do not claim the cutting portion of the auger detached from the screw portion irrespective of the precise mode of attachment shown.

RAILROAD CAR BRAKES—Gideon Hotchkiss, of Windsor, N. Y.
I do not claim the mere application of the brake to the top of the wheels; nor do I intend to confine my claim to the application of the brake by the means described, to the top of the wheel only, but by any other mode of application, and change the principle and means claimed as original may be applied so as to press the brake to other parts of the wheel and accomplish or tend to accomplish the same object.

HAND PRESS FOR PRINTING—Chas. Keniston, of Boston, Mass.
I claim the arrangement and construction of the press described.

SEED PLANTERS—Ebenezer Morse, of Walpole, N. H.
I claim the scrapers, J, J, the can, N, and sliding back board, B, as arranged, combined, and operating conjointly with the hopper, A, for the purpose of depositing seed in hills, covering it with earth, and pressing the earth upon the seed.

FIRE ARMS—Frederick Newbury, of Albany, N. Y.
I claim the ratchet plate with its ratchet indentations and its slot, in combination with the pin by which it connects with the cylinder, and the two screw levers below the cylinder to regulate and secure the connection between the chambers of the cylinder and the barrel, substantially as set forth.

SEED PLANTERS—D. H. Phillips, of Greenville, Ill.
I do not claim opening the seed delivering slide by a cog or projection on the carrier, as in the patent of James M. Bennett, a lever to operate the slide; neither do I claim closing the seed side after the roller has ceased to operate it by the action of the spring.

MANUFACTURE OF BRICKS—L. E. Ransom, of Havana, O.
I make no claim to any portion of the processes of manufacturing bricks set forth in the patent of James H. Haggas & J. H. Haggas, June 21st, 1843, and Charles Henry Harrigret, May 22, 1840.

MOWING MACHINES—Fisk Russell, of Boston, Mass.
I claim arranging the secondary supporting wheel, and the cutter frame in front of the driving shaft, with much of the driving shaft and the driving wheel are arranged and connected by gears as specified, the same serving to lessen the side draft or pressure on the horses or draft animals in comparison to what it would be, were the secondary wheel and the cutter frame disposed back of the driving shaft, when arranged with respect to the driving wheel, as specified.

POLISHING DAGUERRETYPE PLATES—David Shive, of Philadelphia, Pa.
I do not claim effecting a gyratory motion of the pad for polishing the surfaces of daguerreotype plates, or other like surfaces, by means of machinery, as such has been so effected before for similar purposes.

SEED PLANTERS—B. M. Snell, of Hancock, Md.
I do not wish it to be considered that I claim novelty in the devices of my plow when considered separately.

in the manner set forth for the purpose of depositing seed in the prepared soil without the objection of an open furrow.

SELF-LOADING CART—J. A. Sprague and Bernard O'Connor, of Dayton, Ohio.
We do not claim the combination of a large scoop or scraper, undivided, with the ordinary cart suspended in such a manner that the scoop or scraper may be raised or lowered by a winch or lever, forthis has been done before; neither do we claim dividing the scoop transversely near the middle, as such a device has been known and applied in dredging machines.

MORTISING AND TENONING MACHINE—Elihu Street, of Montville, Conn.
I claim the improvement on a machine for mortising, tenoning, sawing, and smoothing by combining certain tools together, used by carpenters in the manufacture of doors, sash and blinds, as described.

VALVE GEARING FOR STEAM ENGINES—H. Udry & H. A. Luitgens, of Paterson, N. J.
We do not desire to confine our claim to any precise manner of construction or application of the improvement, as from its capability of being applied to steam engines of different designs and to the adaptation may, as already stated, call for modifications of parts connected to the improvement.

LOOMS—Lewis Van Ripper, of Spring Valley, N. Y.
I claim, first, intertwining the warp threads in the manufacture of gauze fabrics by the employment of needles having a compound motion, substantially as described.

PRINTING PRESS—L. T. Wells, of Cincinnati, Ohio.
I claim the plate, U, hinged or pivoted to vibrating arms, V, in combination with the stationary pin or pins, n, and retracting springs, X, or equivalent devices for the purposes explained.

CENTRIFUGAL WATER WHEEL—O. Willis, of Dizardville, N. C.
I do not claim a curved bucket; nor do I claim beveling the nut and rim individually; nor do I claim them when combined in such a form as to facilitate the escape of the water only, as this has been done by Fontaine Jouval and others previously.

GRAIN AND GRASS HARVESTERS—W. A. Wood, of Hoosick Falls, N. Y.
I am aware that a conical track clearer separate and independent of the bearing wheel has been used in mowing machines; this I do not claim.

ARRANGEMENT OF WHEELS AXLES, AND FRICTION ROLLERS—G. A. Prentiss, of Cheshire County, N. H.
I claim the combination, substantially in the manner described, of the following elements, viz., a load axle with a beaver secured thereto, a securable concentric roller, the whole being so, and a ring or series of friction rollers, the whole being driven by a pair of wheels, substantially in the manner and for the purposes specified.

SEWING MACHINES—Geo. W. Stedman, of Vienna, N. J.
I claim feeding the cloth along by means of the needle acting as a lever against it over a fulcrum, t, the needle carrier being driven for the purpose with a crank motion or its equivalent, substantially as set forth.

PRESS FOR MAKING CYLINDRO-CONICAL HOLLOW PROJECTILES BY PRESSURE—W. M. B. Hartley, of New York City.
I do not claim the manner of operating the die sections.

ATTACHING AUGERS TO HANDLES—C. W. Cotton, of Shelburne Falls, Mass.
I claim attaching or securing augers to handles by inserting a metallic tube, B, placed around the center of the handle, and having a transverse rectangular

taper hole, A, madethrough the handle and tube, and a metallic band, C, placed around the tube, B, and turned loosely thereon, said band having slots, C, d, madethrough it, a part of the slot, d, being of taper form. The shank of the auger being placed in the hole, A, and through the slots, C, d, in the band and secured in the handle by turning said band and causing the edges of the taper portion of the slot, d, to pass in the notches or recesses, f, i, in the shank, as shown and described.

ORE SEPARATORS—Reuben Shaler, of Madison, Conn.
I disclaim the use of the screen, m, except when used in combination with the two sets of shelves, S, S, and the blower, A, which produces two blasts of unequal force. I disclaim also the use of two sets of shelves when used in combination with a blower of common construction.

SEWING MACHINES—T. J. W. Robertson, of N. Y. City.
I do not claim in itself as new, the arrangement of the feeding dog and spring clamp separately operating upon the cloth on its one or outside surface, as such has before been done by the alternate action of these devices.

CASTERS FOR FURNITURE—G. L. Bailey (assignor to G. L. Bailey and Nightingale, of Portland, Me.)
I claim the pin, B, or oval guide put into or applied to the spindle, A, in any manner, or its equivalent, and attached to a straight track frame, G, with a socket hole, E, larger than the spindle, A, in the manner and for the purpose substantially as described.

TABLE FORKS—J. W. Gardner, of Shelburne Falls, Mass.
COOKING STOVES—Jacob Beesley and Edward J. Delany, of Philadelphia, Pa.

French Railways.
The number of main lines of railroad in France, independent of branch lines and prolongations, is set down at sixteen, and as giving on the 31st of December last a total length of 1169 French leagues.

London extends over an area of 78,029 acres or 122 square miles, and the number of its inhabitants, rapidly increasing, was some 2,362,239 on the day of the last census.

A new form of boiler has recently been tried in its application to locomotives, in England, with great economy in fuel, and time—it is said—in getting up steam.