

No. 8096. Straw-carrier for Threshing Machines. *(Toile sans fin pour les machines à battre.)*

Anthony Kline, Bond Head, Ont., 14th November, 1877, (Extension of Patent No. 1805,) for 5 years.

No. 8097. Gang Plough. *(Charrue à socs multiples.)*

Brooks W. Walton, Fergus, Ont., 14th November, 1877, (Extension of Patent No. 1843,) for 5 years.

No. 8098. Improvements on Wrenches.

(Perfectionnements aux manches de tarauds.)

Andrew B. Lipsey, West Hoboken, N. J., U. S., 16th November, 1877, for 5 years.

Claim.—1st. The combination, in a wrench, of a slideway C in the head A thereof, provided with a partly open fixed collar F, a movable jaw B supported in said slideway, and a screw C having a neck K at a short distance from its head; 2nd. In a wrench, a slideway provided with a partly open fixed collar, whereby provision is afforded for the insertion of a screw with its head in place, and adapted to secure the screw longitudinally without other means; 3rd. The combination in a wrench, with a screw-threaded socket in a movable jaw, of a screw provided with a thread only at the end farthest from the head, and a shank diametrically smaller than said thread, and admitting of play within the said socket; 4th. The combination in a wrench, with a slideway G having cheeks L provided with end M inclined rearwardly from the fixed jaw, and having internal opposite longitudinal ribs E, of a movable jaw B, the shank I of which is provided with grooves E fitting the said ribs e.

No. 8099. Improvements in Water Filters.

(Perfectionnements dans les filtres à eau.)

William Nugent, New York, U. S., 16th November, 1877, for 5 years.

Claim.—The sheet metal case A, struck up as described, having the inlet c provided with spiral corrugations and the outlet b, the spirally corrugated elastic bushing D, the perforated bottom plate f and the sponge or other filtering material E.

No. 8100. Improvements on Nut Locks.

(Perfectionnements aux noix de sûreté.)

Thomas J. Sawyer, Pacific, Mo., U. S., 16th November, 1877, for 5 years.

Claim.—1st. The nut D with curved projections b, fitting into the curved recess c of the washer C, in combination with one or more rigid holding projections on the inner side of the washer, whose holding faces are parallel to that side, and with a screw-welt and fish-plate; 2nd. The nut D with curved projection b, fitting into the curved recess c of washer C, in combination with rectangular tongue a, of washer C, fitting into rectangular groove f of fish plate B.

No. 8101. Improvements on Bird Cages.

(Perfectionnements aux cages d'oiseaux.)

Anson E. Mook, East Pembroke, N. Y., U. S., 16th November, 1877, for 5 years.

Claim.—1st. The wheel B provided with the rod C having head Cr, in combination with the opening L and standard G; 2nd. The combination of a revolving cage-wheel B, with a series of perches J; 3rd. A revolving cage-wheel B provided with an annular opening B' surrounding the rod C.

No. 8102. Improvements on Circular Sawing Machines. *(Perfectionnements aux scieries circulaires.)*

Simon H. Richardson, Bangor, Me., U. S., 16th November, 1877, for 5 years.

Claim.—The removable support C for the end of the saw arbor.

No. 8103. Improvements on Threshing Machines. *(Perfectionnements aux machines à battre.)*

Thomas H. Brown, Brantford, Ont., 16th November, 1877, for 5 years.

Claim.—1st. The combination of riddle frame E on rollers F, with crank and forked connecting rod G attached to sides of frame E; 2nd. The application of serrated bottom on spout T, also rollers V; 3rd. The combination of extended sides C, with rollers F carrying riddle frames and directing the wind.

No. 8104. Improvements on Hand Stamps.

(Perfectionnements aux estampes à main.)

William H. Phillips and Thomas Hawthorn, London, Ont., 16th November, 1877, for 5 years.

Claim.—1st. The combination of the connecting arms K K, rod I, coil spring L and the inking box H, with grooves P, perforated false bottom R and bottle O, with narrow opening F; 2nd. In combination with the above, the die-plate G with curved projections C, plunger A and tube B.

No. 8105. Street Stop-Cock for Gas and Water. *(Robinet à gas et à eau pour les rues.)*

Amos W. Morgan, Buffalo, N. Y., U. S., 16th November, 1877, for 5 years.

Claim.—1st. In connection with street gas and water boxes, the pipes A constructed, or cast, with the spirals, or threads a b b, one pipe turning on, or in the other; 2nd. The combination of a street gas or water pipe A, lug i and cover C, having the countersunk opening k and provided with the vertical brass screw j, or its equivalent, for fastening the same, and with the head formed to receive a wrench, or key; 3rd. In combination with a stop-cock box pipe A or Ar, having the conducting pipe openings e e, the flanges or bases g g.

No. 8106. Improvement in Brick Kilns.

(Perfectionnement dans les fourneaux à brique.)

William T. Christy, St. Louis, Miss., U. S., 16th November, 1877, for 5 years.

Claim.—1st. The combination, in a fire-brick kiln, of a fire-brick lined metallic shell, with the arrangement of the blast-pipes passing under the heated kiln bottom, with each a regulating stock valve for tempering the blast, and having also a many-perforated pipe under each fire chamber, for blowing air upward between the grate-bars, together with the up-draft, and the crown opening for the unimpeded passage of the consumed and exhausted air and gases; 2nd. The sectional incasement A and the binding clamps a a, combined with the arch skew-band d; 3rd. The sliding valve v, in combination with grating S and valve l; 4th. The closed firing places with balanced doors b, combined with the split-bridge U, the cut-off valve-tile u and the clinking slot x.

No. 8107. Improvements on Lubricating Compounds. *(Perfectionnements aux composés lubrifiants.)*

Peter Sweeney, New York, U. S., 16th November, 1877, for 5 years.

Claim.—A lubricating compound made of graphite and a solution of piroxylene, with the addition of mercury, camphor, or paper pulp if required.

No. 8108. Improvements on Bed Bottoms.

(Perfectionnement aux fonds de lits.)

Caleb E. Brown, Jackson, Mich., U. S., 16th November, 1877, for 5 years.

Claim.—A bed bottom composed of slats, in connection with alternating sets of spiral springs, of which each set is connected by a top or bridge piece, and secured to the outside of two adjoining slats by the bent ends of the wire, formed to hook partly around the slat.

No. 8109. Combined Mowing and Reaping Machine. *(Fauçonneuse-moissonneuse.)*

Cyrenus Wheeler, Jr., Auburn, N. Y., U. S., 17th November, 1877, (Extension of Patent No. 3608,) for 5 years.

No. 8110. Combined Mowing and Reaping Machine. *(Fauçonneuse-moissonneuse.)*

Cyrenus Wheeler, Jr., Auburn, N. Y., U. S., 17th November, 1877, (Extension of Patent No. 3608,) for 5 years.

No. 8111. Improvements in Harvesting Machines. *(Perfectionnements dans les moissonneuses.)*

Cyrenus Wheeler, Jr., Auburn, N. Y., U. S., 17th November, 1877, (Extension of Patent No. 4617,) for 5 years.

No. 8112. Improvements in Harvesting Machines. *(Perfectionnements dans les moissonneuses.)*

Cyrenus Wheeler, Jr., Auburn, N. Y., U. S., 17th November, 1877, (Extension of Patent No. 4617,) for 5 years.

No. 8113. Stove-pipe Joint.

(Joint de tuyaux de poêles.)

John Draper, Whitby, Ont., 17th November, 1877, (Extension of Patent No 5934,) for 5 years.

No. 8114. Stove-Pipe Joint.

(Joint de tuyaux de poêles.)

John Draper, Whitby, Ont., 17th November, 1877, (Extension of Patent No 5934,) for 5 years.

No. 8115. Improvements on Cultivators.

(Perfectionnements aux cultivateurs.)

Gottlieb Bettschen, Wilmet, Ont., 17th November, 1877, for 5 years.

Claim.—1st. The combination of the two short stationary beams b b and the iron frame h h, with the centre beam a and the two outside beams c c; 2nd. The combination with the two stationary beams b b and the iron frame h h, together with the centre beam a and the outside beams c c, of the curved iron bars d d, the centre block e and the crank and key f; 3rd. The combination with the centre beam a and the iron frame h h, of the handles g g; 4th. The shape of the knives i i i and their regulation and combination with the beams a b b and c c.

No. 8116. Improvements on Boot and Shoe Lasts. *(Perfectionnements aux formes des chaussures.)*

John Batley, John Keats, and James Neil, London, Eng., 17th November, 1877, for 15 years.

Claim.—1st. The combination with the body of the last, of a pivoted swinging heel piece, adjustable toward and from the instep, and within or under cover of the body of the last; 2nd. A last, provided on either side of its foot or forward portion with a side piece, constructed and applied to swing outward from an axial line, parallel, or nearly so, with the sole and length of the foot; 3rd. The combination of the swinging and adjustable heel piece of the last, with the laterally swinging or rolling side-pieces, on either side of the forward portion of the last; 4th. A last having an adjustable heel piece and expanding and contracting side pieces at its forward portion, the combination with the said heel piece and forward side pieces, of mechanism organized to provide first, for the expansion of the heel piece and subsequently for the expansion of the side pieces; 5th. The combination with the pivoted or swinging heel piece B and rolling side pieces D D, of the screw E, the toggle levers h h, the stud or pin K, the lever m having a slotted arc l and the rods r r.