

No. 7713. Improvement on Extension Chandeliers. (*Perfectionnement des candélabres à rallonge.*)

Wolcott A. Hull, Meriden, Ct., U.S., (Assignee of John T. Bruen), 9th August, 1877, for 5 years.

Claim.—1st. The combination with the movable portion of a chandelier and its fixed suspending tube, of an internal screw and nut, the one turning upon the other, and an automatic stop device operating to prevent such turning of the screw or nut and thereby to stop the descent of the chandelier; 2nd. The combination of the internally threaded suspending tube B provided with a projection b, the slotted sliding tube T attached to the chandelier, the box P, the screw or twisted rod A, the cylinder d attached to said screw and containing the seat h, the stop i, the spring k which acts upon said stop and the button m; 3rd. The combination of the supporting screw A, the suspending tube B and springs E.

No. 7714. Attachment for Threshing Machines. (*Disposition aux machines à battre.*)

John Abell, Woodbridge, Ont., 9th August, 1877, for 5 years.

Claim.—The plate A provided with a concave serrated face, in combination with the cylinder and carrier belt of a threshing machine.

No. 7715. Improvements on Boxes for Shafting.

(*Perfectionnements aux boîtes d'arbres de couche.*)

Joseph Tomlinson, Black Hawk, Col., U.S., 9th August, 1877, for 5 years.

Claim.—The combination, in the journal box, of the upper bearings g g, pad k between such bearings, the lower bearings c c and pad k between said bearings, the oil chamber b, in the bottom of the shell a, and the spring cut off plates m n in the recesses at the ends of the boxes; 2nd. The combination, in the journal box, of the oil chamber b, spring pad k between the bearings c c and the spring cut off plates m n and their recesses at the ends of the journal box.

No. 7716. Apparatus for Self-Adjusting Saddle Girths.

(*Appareil automatique à serrer les sangles des selles.*)

Alois Steinback, Vienna, Austria, 9th August, 1877, for 5 years.

Claim.—The springs f f and pawl, in combination or not with the buckles a and b.

No. 7717. Improvement in Cheese-Presses.

(*Perfectionnement dans les presses à fromage.*)

Arad S. Beach, Groton, N. Y., U. S., 9th August, 1877, for 5 years.

Claim.—1st. A cheese press adapted to receive and press a series of cheeses end to end, and having its holder frame composed of or provided with a receptacle for the proper collection and discharge of the expressed liquid; 2nd. In combination with a frame work and suitable platens between which to compress the interposed gang of cheeses, two or more drawing screw shafts or their equivalents; 3rd. In combination with a press adapted to press a series of cheeses with hoops arranged end to end, one or more sliding holder boards l, or their equivalents, and means of holding said board or boards in place vertically; 4th. In combination with the box or body A of the press suitable ways to w, or their equivalents, upon which to rest and slide the hoops in the operations of putting in, pressing and removing the cheeses; 5th. The combination with a system of gears, for operating a series of press screw shafts, of a hand lever and reversible pawl or finger j, or its equivalent.

No. 7718. Improvements in Reaping Machines.

(*Perfectionnements aux moissonneuses.*)

John Abell, Woodbridge, Ont., 9th August, 1877, for 5 years.

Claim.—1st. The single plate driving wheel A having a convex concave section and provided with the circular rack A₂. 2nd. The combination with the wheel A having a convex concave section and shaft A₁ of the similarly curved frame plate B; 3rd. In combination with the wheel A provided with the inner circular toothed rack A₂, the bevel wheel C, upright shaft C₁ and frame B. 4th. The combination with the shaft C₁ and toothed wheel C₂ of the toothed wheel D and crank shaft D₁; 5th. The wheel C₂ with half-clutch and shaft C₁, in combination with the clutch C₃ and clutch lever C₄; 6th. The frame B loosely mounted on the shaft A₁ and provided with the guide rods B₁, in combination with the bracket E of the cutter bar E₁; 7th. The combination of the wheel A, frame B, with guide rods B₁, with the bracket E of the table of a reaping machine; 8th. The ratchet lever F pivoted on frame B, differential wheel F₂, chains F₃ G and outside wheel G₁, in combination with the table of a reaping machine; 9th. The wheel A, frame B, outside wheel G₁ with their operating connections, in combination with the table of a reaping machine and its connections; 10th. The outside wheel G₃ mounted on the pivoted quadrant arm G₂, in combination with the perforated guide plate H; 11th. The frame B arranged to work at a fixed level with attached crank driving wheel D, in combination with the crank shaft D₁, the said crank shaft being arranged to adjust itself to the level of the table to which it is attached; 12th. The frame B with bracket piece L, in combination with the spring lever I and pole J; 13th. The rake head plate L₂ provided with adjustable clutch R₁, in combination with the cam wheel R; 14th. The toothed cam wheel R, in combination with the toothed bevel cam wheel R₂; 15th. The cam wheels R R₂, in combination with the rod V₂, bracket V₁, lever V and pivoted guide blocks T T₁; 16th. The block V₁ in combination with the rod V₂ and cam wheels R R₂; 17th. The rakes P with brackets W, in combination with the hinged arms P₁ with pin X, 18th. The bracket W in combination with the spring latch X₁; 19th. The rakes P with spring latch X and lug W₁, in combination with the pivoted guide blocks T T₁, with the stop block T₂ and cam T₃; 20th. The combination of the rakes P and attachment pivoted blocks T T₁, lever V, rod V₂ and cam wheels R R₂; 21st. The combination with the rake arm P, bracket W and pin X, of the washer Y, pin p and spring Y. 22nd. A six rake reaper formed by the addition of an extension web with raised rim to the rake head plate and an increased circle on which the rake arms hinge.

No. 7719. Improvement on a Waggon Box.

(*Perfectionnement des caisses de voitures.*)

Edwin R. Lang, Langford, Ont., 9th August, 1877, for 5 years.

Claim.—1st. The irons E F G, 2nd. The application of the irons to waggon boxes.

No. 7720. Improvements in Churn Dashers.

(*Perfectionnements aux bolles-beurre.*)

John Ferguson and Alexander Ferguson, London, Ont., 9th August 1877 for 5 years.

Claim.—1st. The combination of three or more rings or sets of chambers A B C, set half an inch apart by means of the projecting inside shafts a b c with the removable cover d; 2nd. The combination of the inside shafts a b c, the wings of the inside shafts D E F G, the rings A B C and the inside flanges i; 3rd. The combination of the coupling bolt e, the bolt head f, the cavity m in the inside shaft of the lower ring A, the screw g and the socket h.

No. 7721. Improvements on Steam Boilers.

(*Perfectionnements aux chaudières à vapeur.*)

Henry S. Coleman, Chelmsford, Eng., 9th August, 1877, for 5 years.

Claim.—The combination with a double boiler of circulation tubes forming downward continuations of each alternate connecting tube, said circulation tubes extending to within a few inches of the bottom of the lower shell for the purpose of determining a circulation of the water.

No. 7722. Improvements on Land Rollers.

(*Perfectionnements aux rouleaux d'agriculture.*)

James S. Palmer, Brantford, Ont., 9th August, 1877, for 5 years.

Claim.—1st. A land roller having tapering or cone-shaped rolls B, 2nd. A land roller constructed of conical rollers B having tapering flanges C on an axle tree A, provided with a draft tongue E.

No. 7723. Improvements on Compound Reflectors.

(*Perfectionnements aux réflecteurs composés.*)

Faung I. Senour, Pittsburgh, Pa., U. S., 9th August, 1877, for 5 years

Claim.—1st. The combination of the center conical or bell-shaped reflector and the exterior reflector arranged concentrically with and at the base of the inner reflector and a suitable distance from the same; 2nd. The adjustable collar G with skeleton frame I containing the reflectors J L and suspended on the gas fixture by a set screw or other suitable device; 3rd. The combination of an oil font and burners supported on the reflector frame with the reflectors.

No. 7724. Improvement in Watch Movements. (*Perfectionnement dans les mouvements des montres.*)

Charles S. Mosely, Elgin, Ill., U. S., 9th August, 1877, for 15 years

Claim.—1st. A watch movement having the barrel placed midway between the figures denoting twelve and three o'clock on the dial with a bridge projecting from the barrel on either side to and beyond the two figures respectively; 2nd. Two sets of cavities and holes counter parts one of the other, arranged on each side of the barrel; 3rd. A barrel and main winding wheel combined with a bridge having openings on each side of the barrel, and winding wheel with a single operative intermediate wheel.

No. 7725. Improvements on Stove-pipe Shelves.

(*Perfectionnements aux tablettes à tuyau de poêle.*)

Charles Allen, Waterloo, Que., 9th August, 1877, for 5 years.

Claim.—1st. The combination of the pipe b, flange c, ring d, with the arms g and plate f; 2nd. The combination of the pipe b, ring d and plate f supported thereby with the bolts g, flanges i and shelf or shelves h; 3rd. The combination of the pipe b, shelves f h, with the flange k and peripheral casing l m.

No. 7726. Improvements on a Drying House.

(*Perfectionnements aux sécheresses.*)

Samuel W. Craven, Cobden, Ill., U. S., 9th August, 1877, for 5 years.

Claim.—1st. The combination with the frames D having grooved side bars b of the pivoted gravitating catches O; 2nd. The combination with the dry house having the stationary pivoted gravitating catches E, of the sliding frame D having similar catches O; 3rd. The dry house separated from its furnace by a metallic diaphragm b; 4th. The combination with the stationary pivoted gravitating catches E and the vertically movable frame D having similar catches O, of the rock shaft G, cams or eccentrics F and chains H.

No. 7727. Improvements in Cooking and Heating Stoves.

(*Perfectionnements dans les poêles de cuisine et de chauffage.*)

Charles A. Hazalin, Albany, N. Y., U. S., 9th August, 1877, for 5 years

Claim.—1st. A cooking or heating stove provided with a permanent projection c, of the front plate C, a fire box having an adjustable front plate F for extending the upper surface of the burning fuel into said projection within the exterior casing of the stove and beyond the area of the grate E, for the purposes of broiling, radiation or illumination; 2nd. The permanent projection c, of the front plate C, in combination with the inclined front plate F of the fire box extending thereinto; 3rd. The combination with the projection c, of the front plate C having the groove, c₂, of the end piece c₁ having the shoulders c₃; 4th. The combination of the adjustable front plate F with the damper G; 5th. The damper G and door D; 6th. The combination with the projection c, of the front plate C provided with the means for holding the gridiron L of the hearth plate K arranged in relation to the gridiron.