

bale the receptacles or grooves at a_2 a_3 on one side, and holes or slots at a_1 on one edge; 25th. The combination with the follower block J, of the handle a_1 ; 26th. The follower block J having a vertical groove o in one edge; 27th. In combination with the lever O and pitman W, the universal joint composed of the knuckle post Q and S, and the bolt U, said bolt operating in an elongated slot t ; 28th. the universal joint Q S, constructed with a ball and socket pressure joint between the knuckles of the pitman part S, and the end of the knuckle Y, of the other part Q, and farther constructed with an elongated slot t in the knuckles of the part S and provided with a bolt U, in combination with a balancing press and power mechanism; 29th. The ratchet wheel B₂ combined with the crank shaft B₁ B₃, pitman W and lever O, with the universal joint Q S, and operated by a loosely pivoted sweep or lever B₃ and pawls B₄ B₅, to move the traverser forward as the sweep is moved round, and at the same time permit the rebound of the traverser as the crank B₁ turns its front centre to instantly reverse the crank, thereby producing nearly two strokes forward of the traverser to one round of the sweep; 30th. The ratchet B₂ and crank shaft B₁ B₃, combined with the loosely pivoted lever B₃ having pawls B₄ B₅, 31st. In combination with the grooves a_2 formed in the yielding metallic sectional plates F₁ F₂, the longitudinal grooves a_7 formed in the inner side of the bale-expanding chamber C.

No. 9253. Mill Dog. (*Clameau de scierie.*)

Joseph Chew, Midland, Ont., 15th October, 1878, for 5 years.

Claim.—1st. The curved teeth A, fitting into correspondingly shaped stationary guides made in the frame or body piece B, in combination with the sliding form C having diagonal slots E, which engage with the projecting blocks F on the teeth A, the teeth A being operated through the said form C, by the lever C₁; 2nd. The curved teeth A, having recess a cut in the back of these points a_1 .

No. 9254. Foundation for Honey Bees.

(*Système d'amorce des ruches.*)

Alexander E. McConnell, New-Orleans, La., U.S. 15th October, 1878, for 5 years.

Claim.—A bee hive frame A, provided with thin strips or sheets of wax

No. 9255. Improvements on Grindstones.

(*Perfectionnements aux meules à repasser.*)

Alexander Cameron, London, Ont. 15th October, 1878, for 5 years.

Claim.—1st. A recessed knife bearer M, 2nd. The levers E E₁, 3rd. The cog wheels C D, pitman J with holes d , levers E E₁, recessed knife bearer M and rests O O₁, which give a rocking or curved motion to the knife; 4th. The combination of the frame A, stone B, cog wheel C D, levers E E₁, bearer M and rests O O₁.

No. 9256. Improvements in Railway Brakes.

(*Perfectionnements dans les freins des railroites.*)

John Woods, Melbourne, Australia, 15th October, 1878, for 15 years.

Claim.—1st. The construction of railway brakes in which hydraulic pressure stored in carriage accumulators is held in check by a counter pressure in a main line of piping common to all such accumulators, so that when such counter pressure is withdrawn, that in the accumulators is free to apply the brake blocks to the wheels; 2nd. The engine accumulator A, main piping B, branch pipes D, carriage accumulators E, check valve D₁, branch pipe F, self-acting reversing valve pipes G₂ and G₄, cylinder H and plunger H₁, 3rd. In supplying the hydraulic pressure to the brake mechanism by means of either the engine pump or injector.

No. 9257. Improvement in Bologna Sausage.

(*Perfectionnement dans le saucisson de bologne.*)

Giuseppe Pisati, Kingston, Ont., 15th October, 1878, for 5 years.

Claim.—A compound composed of beef hinds, pork hinds, pepper, salt, salt-petre and the best old pure Italian red grape wine, and the process whereby the said compound can be so treated as that it will continue pure and good in all climates for an indefinite period of time.

No. 9258. Improvements on Ploughs.

(*Perfectionnements aux charrues.*)

Horatio Gale, Albion Mich. U.S. 15th October, 1878, for 5 years.

Claim.—1st. A plough beam composed of three or more draught rods D, terminating at their forward end in a common eye, or other device, to engage with a clevis, while their rear ends are secured to the standard of a plough; 2nd. A plough beam of three or more draught rods D, and adjustably secured to the standard of a plough; 3rd. In combination with a plough standard B, and a plough beam constructed of three or more draught rods D, the plate C on the standard; 4th. The combination with the standard B, of a plough of the plate C, at the top thereof, and three or more draught rods D, attached to such plate by means of screw nuts placed in each side of the said plate.

No. 9259. Corset and Skirt Supporter.

(*Bretelle de corset et de jupon.*)

Moses K. Bortree, Jackson, Mich., U.S., 15th October, 1878, for 5 years.

Claim.—1st. Springs formed of whalebone or horn in two strips, one being placed upon the other; 2nd. A corset spring constructed of two strips of whalebone or horn, one laid upon the other, in combination with a metallic socket b , to hold the ends of the strips; 3rd. The combination with the front pieces B B of the gores a in pairs for the purpose of joining the bust swells; 4th. The hip openings D, cut in the sides of the lower adjoining edges of the edges of the laced sides, said openings being provided with adjustable straps E and buckles F; 5th. In combination with the hip openings D, the springs in the side or hip pieces diverging from a point under the arms to the front and rear to avoid pressure upon the hips; 6th. In combination with bust swells formed by the gores a , in pairs in the front pieces B, the adjustable straps G; 7th. In combination with the back piece A and front pieces B B, provided with the gores a , the shoulder straps H secured to the corset at one of their ends, and provided with means for adjustably securing their opposite ends to the corset; 8th. The back A and front pieces B B, provided with buttons d and the gores a , lacing cords C, hip openings D, straps E, buckles F, straps G and shoulder straps H.

No. 9260. Improvements on Buckles.

(*Perfectionnements aux boucles.*)

Alexander T. McConnell, New Orleans, La., U.S. 15th October 1878, for 5 years.

Claim.—1st. The bale tie A, having bars a b c parallel, but not in the same plane, the bar c having sharp edge and inclined outer side, in order to admit of the bending of the band at an acute angle; 2nd. The buckle A having bars a b c , in combination with the ends of the band, the same being led respectively under the outer bars, over the centre one, and secured by bending around the outer bar c .

No. 9261. Improvements on Oatmeal Cutters.

(*Perfectionnements aux coupe-avoine.*)

Herbert Z. Coles, Markham, Ont., 15th October, 1878 for 5 years.

Claim.—1st. The combination of two oppositely rotating and alternately placed series of blade C C₁, having their periphery divided or cut into teeth C; 2nd. The oppositely rotating alternately placed blades C C₁, in combination with the intervening bars D; 3rd. The combination and arrangement of the cutters C C₁, bars D and inclined chute P.

No. 9262. Machine for Cooking Food.

(*Machine pour cuire les aliments.*)

Jane Taylor, Yorkville, Ont., 15th October, 1878, for 5 years.

Claim.—1st. The metal pot A A, with sloping perforated sides B B and perforated bottom C C; 2nd. The grooves at sockets D D, with the partition plate E E in combination with the metal pot A A.

No. 9263. Improvements on Refrigerator Buildings.

(*Perfectionnements aux glaciers.*)

Richard M. Birdsall, Clinton, Wis., U.S., 15th October, 1878, for 5 years.

Claim.—1st. The ice reservoir E, having registers e arranged in its bottom, and surrounded by an air-jacket having registers f and provided with the U-shaped metallic flues J, in combination with the cooling vaults; 2nd. The refrigerator building described, consisting of the cooling compartments H H₁ H₂, the superposed ice-reservoir E provided with non-conducting walls and circulating air space, the U shaped metallic flues J, the registers e , the ventilating flues and the conducting pipe.

No. 9264. Improvements on Screw-headed Keys.

(*Perfectionnements aux clés à tête fileté.*)

Paul A. Ohver, Wilkesbarre, Pa., U.S., 15th October, 1878, for 5 years.

Claim.—1st. A key having a cylindrical screw threaded head, 2nd. The combination of an internally threaded sleeve or nut with a key having a screw threaded head; 3rd. A screw-headed key having an offset to adapt it to line shafting; 4th. A nut having formed on it a flange; 5th. The combination of the U-shaped piece F, with the offset key C.

No. 9265. Joint Preserver and Nut Protector for Railway Rails.

(*Garde-joint et garde-noix des rails de railroites.*)

Philip Mutter, Hamilton, Ont., 16th October, 1878, (Extension of Patent No. 2802.) for 5 years.

No. 9266. Improvements on Stove-Pipe Dampers.

(*Perfectionnements aux clés des tuyaux de poêles.*)

Solomon Crowell, Palmyra, N. Y., U.S., 19th October, 1878, for 5 years.

Claim.—1st. A screw threaded supporting rod attached directly to a damper plate, and adapted to hold the damper in any desired position by frictional contact of the threads with a hole or holes in the stove-pipe; 2nd. The combination of a stove pipe having opposite openings, a damper plate with a rectangular passage and a tapering screw-threaded rod.

No. 9267. Machine for Tapping Nuts.

(*Machine à fileter les noix.*)

Ralph H. Plumb, Orrin C. Burdick and Albert J. Barnard, Boston, (Assignees of Samuel L. Worley, Taunton,) Mass., U.S., 19th October, 1878 for 5 years.

Claim.—The clutch composed of the revolving arms clutch bolts, elbow levers and sliding sleeve, in combination with the reversing wheels k , with which said clutch-bolts engage, the combination of the revolving clutch arms, clutch bolts, elbow levers, sliding sleeves, reversing wheels and revolving sliding mandrel, in combination of the nut holder, the cap-plate thereof, and the follower which holds the nut against said cap-plate, the combination of the nut holder, the cap-plate thereof, the follower, the nut channel, the nut feeder and the nut hopper, the combination of the nut holder the cap-plate thereof, the follower and the revolving mandrel, for carrying the tap.

No. 9268. Improvements on Washing Machines.

(*Perfectionnements aux machines à laver.*)

Cyrus A. Dodge, Middlebury, Vt., U.S., 19th October, 1878, for 5 years.

Claim.—1st. The combination with a standard, the lower end of which is adapted to be secured to a tub, of two parallel rods, their upper ends swivelled to the standard while the lower ends are pivoted to the operating lever to which is pivoted the pounder-handle; 2nd. The combination with the parallel rods swiveling at an angular inclination to the vertical of the swivel connecting the same with a supporting standard; 3rd. The combination with the standard and swivel, of the parallel swiveling rods, the bell crank and the lever handle; 4th. The combination with the two parallel swiveling rods, of the bell-crank pivoted to the lever handle; 5th. The combination with the bell-crank, pivoted to the lever handle, of the horizontal guide rod, the pounder-shaft and the parallel vertically swiveling rods; 6th. The combination with the pounder-shaft, handle and guide-rod, of a single supporting upright, the latter adapted to have rotary movement in a hori-