

No. 3571. HENRY H. WARREN, Bridgewater, Ont., 15th June, 1874, for 5 years: "Animal Trap." (Piège.)

*Claim.*—The combination of the hinge D, knuckle F, and shank E, as set forth.

No. 3572. ALBERT T. NICHOLS, Williamsport, Penn., U. S., 15th June, 1874, for 10 years: "Machine for Edging Lumber." (Machine à dé-dosser le bois de sciage.)

*Claim.*—The combination with the moveable guide or gauge D, of the bar G, connection H, elbow-lever I, and arm J; 2nd. The combination with the moveable saw U, of the bar G, with hub B, sliding upon the counter shaft K, the connection H, and elbow-lever I; 3rd. The fork G, made in two pieces united together by means of a set-screw E, in combination with the saw U, having a circumferentially grooved hub, and the arm G; 4th. The arrangement with a saw-frame of the longitudinally grooved and end-wise-moveable saw arbour B, having adjustable saws C, C, and provided with a shoulder I, at one end, and an adjustable collar M, and set screw N at the other end.

No. 3573. WAREHAM S. WISNER, Brantford, Ont., (Assignee of C. P. Brown), 15th June, 1874, for 5 years: "Grain Drill-sower." (Semoir traceur à grain.)

*Claim.*—1st. The combination of hopper or receiver A, with groove C, in elevator; 2nd. The combination of bar O, hung on trunnions P, with bar Q, attached to bar O, by joint R, and working with lever S, on roller K, as set forth.

No. 3574. HENRY CARTER & DANIEL STEWART, Aylmer, Ont., 15th June, 1874, for 5 years: "Odometer." (Compte pas.)

For measuring the distance passed over by any vehicle.

*Claim.*—1st. The combination of two endless worm shafts E, G, arranged transversely and cruciform head T, worm-wheels H, I, and spindle J, provided with a pointer, all operating as set forth; 2nd. The combination of the notched recording wheel P, a dial pointer N, having a projection O, for operating the same in the manner set forth; 3rd. The hinged cover U, provided with a seal or bolt-blocking device for securing the dial and pointer from improper manipulation, as set forth.

No. 3575. JACOB ORTH and WILLIAM HONSBERGER, Chilton, Ont., 15th June, 1874, for 5 years: "Improvements on Threshing Machines." (Perfectionnements aux machines à battre.)

*Claim.*—The chaffer A, and its combination with separator threshing machines, as set forth.

No. 3576. RUFUS KLINE and ROBERT M. JACK, Pottstown, Penn., U. S., 15th June, 1874, for 10 years: "Improvement in Running Gears for Carriages." (Perfectionnement dans les trains des voitures.)

*Claim.*—1st. The combination with a U shaped metallic axle of a subjacent strip welded to the under side of each journal, as described; 2nd. The U shaped thin metallic perch plates J, hilling pieces K, and clips L, combined as set forth; 3rd. The U shaped plate M, and flat plate N, constructed and combined with clips as specified.

No. 3577. ISRAEL P. MAGOON and HENRY FAIRBANKS, St. Johnsbury, Vt., U. S., 15th June, 1874, for 15 years: "Locomotive Feed Water Heater." (Chauffeur de l'eau d'alimentation des locomotives.)

*Claim.*—1st. Supporting or staying the coil of feed water pipes within a heating chamber in the smoke stack; 2nd. In combination with a coiled feed water pipe around the smoke flue and within a chamber which receives the exhaust steam, a pipe leading from the said heating chamber to conduct the exhaust steam therefrom and discharge it into the open air or outside the smoke flue; 3rd. Constructing the smoke stack to separate near the top of the heating chamber and removably secured together at that point.

No. 3578. HENRY WATKEYS, Syracuse, N. Y., U. S., 18th June, 1874, for 5 years: "Throttle Valve." (Soupape d'admission.)

*Claim.*—1st. The combination of a throttle valve consisting of a main valve E, and an adjustable auxiliary or supplemental valve F, with the dry-pipe of a boiler, constructed as specified; 2nd. The combination of a toggle jointed lever with the main and auxiliary valves of a throttle-valve, when constructed and operating as described.

No. 3579. CALVIN MITCHELL, Dekalb, N. Y., U. S., 18th June, 1874, for 5 years: "Animal Poke." (Carcan de bétail.)

*Claim.*—1st. The plates B, and D, in outline conforming to animal's breast, hinged at their upper edges, provided with their spikes A, and springs E, and suspended upon the neck of an animal by the flexible loop A, as described; 2nd. The sockets I, bolted to the plate D, to receive the arms H; 3rd. The nutted bolts J, passing edgewise through the plates B, and D, and forming a hook and eye hinge joint to connect the same for the purpose set forth.

No. 3580. CHARLES V. HOSE, Belleville, Ont., 18th June, 1874, for 5 years: "Machine for Propelling Vessels." (Machine à propulser les vaisseaux.)

*Claim.*—The combination of the rim C, with the wings B, as set forth.

No. 3581. BENJAMIN C. RICHARDSON, Syracuse, N. Y., U. S., 18th June, 1874, for 5 years: "Spool Case." (Porte bobine.)

*Claim.*—1st. The combination and arrangement of the armed spindles C, and spring washers W, constructed as specified; 2d. The side pockets I, and cushion K, in combination with the spool case, as described.

No. 3582. FRANK BRAMER, Little Falls, N. Y., U. S., 18th June, 1874, (reissue of Patent No. 2600); "A Mowing Machine." (Une moissonneuse.)

*Claim.*—1st. The construction of the socket for the reception of the dividing stick, or anger A, in such manner that said stick or anger may be rolled in the socket and secured in any position desired; 2nd. The combination of the iron G, board D, and adjustable dividing stick A; 3rd. The coupling arm P, hinged to the main frame in such manner as to permit it to rock or roll on its longitudinal axis in combination with the rear brace or thrust bar J, hinged thereto to permit such rocking or rolling motion, as described; 4th. The cutting apparatus connected to the main frame by the main brace or coupling arm P, and rear hinged brace J, as described, in combination with the independent levers E, and Q, and their connecting devices for adapting said cutting apparatus to be controlled by the attendant riding on the machine, while at the same time it is left free, within certain limits, to rise and fall, and also the rock or roll on its longitudinal axis independently of said levers, as described; 5th. The eccentric A, for rocking or tilting the longer bar in the manner set forth; 6th. The block M, one end of which forms a lever for tilting the anger bar, and which forms the attachment of the main connecting bar P, and the push bar J; 7th. The combination of the eccentric A, and the block M; 8th. The combination of the block M, push bar J, and main brace P; 9th. The combination of the eccentric K, block M, push bar J, main brace P, connecting rod H, and lever E.

No. 3583. JAMES LYDIATT and EDWARD R. KENT, Hamilton, Ont., 18th June, 1874, for 5 years: "Improvements in Glass Moulds." (Perfectionnements dans les moules de verres.)

*Claim.*—The application of the formative surface of a glass forming mould of one or more coatings of plumbago and subsequently treating such in the manner set forth.

No. 3584. EUGÈNE VOISIN, Bourges, France, 18th June, 1874, for 5 years: "Improvements in Cupola Furnaces." (Perfectionnements aux fournaux à manche.)

*Claim.*—1st. The employment of a second set or row of tuyeres so placed and of such dimensions as to create a second zone of fusion; 2nd. Consuming the gases in the interior of the furnaces which have been hitherto consumed at the throat thereof, as described; 3rd. Placing a receiver at the back of the cupola furnace in communication with the crucible or hearth in such a way as to cause the metal to pass back through the heated hearth of the furnace, as described.

No. 3585. THOMAS WORSWICK, Guelph, Ont., 18th June, 1874, for 5 years: "Improvements on Force Pumps." (Perfectionnements aux pompes foulantes.)

*Claim.*—1st. The combination of the frame A, A, the pump cylinder B, and the plunger C, enlarged at D, with protection J, or their equivalents as set forth; 2nd. The combination with the frame A, A, cylinders B, and plunger C, of the crank plate F, the crank pin E, and the screw G, or their equivalents as set forth.