

No. 5087. WILLIAM LIGHTFOOT, and GEORGE H. COPPING, Toronto, Ont., 24th August, 1875, for 5 years: "Lawn Sprinkler." (Arrosoir de gazon.)

*Claim.*—1st. The adjustable concave spray distributor C; 2nd. The combination of the clamp D, rod E, with the spray distributor C, with the respective tightening screws. 3rd. The socket I, with screw I', adjustable stand H, with hose holder K, and screw K', and clamp with screw K', 4th. The combination and arrangement of the stand H, socket I, hose holder K, in combination with the hose branch B, and spray distributor C; 5th. The application of one or more distributors C, to one machine, when so required.

No. 5088. THOMAS H. MARSH, Toronto, Ont., 24th August, 1875, for 5 years: "Clamp." (Crampon.)

*Claim.*—A clamping tool A, the adjustable jaw D, (with sliding wedge E, attached) and tooth F, in combination with the notched stem or bar C, attached to and projecting downwardly from the jaw B.

No. 5089. EDWARD A. CALAHAN, Brooklyn, N. Y., U. S., 24th August, 1875, for 5 years: "District Signal and Alarm Telegraph." (Télégraphe local à signaux et d'alarme.)

*Claim.*—1st. The circuit wheels in combination with levers n, insulated springs i, dog 3, circuit connections and revolving mechanism whereby the wheels are unlocked, and the circuit spring pressed to its wheel simultaneously; 2nd. The annular notched flange 4, upon the circuit wheel in combination with the pin 6, lever n, circuit springs, and electrical connections; 3rd. In a district signal and alarm telegraph, a movable cap applied to and combined with the alarm push button; 4th. The slide p, provided with diagonal slots, in combination with the levers n, and their projecting fingers n, whereby a second key cannot be depressed until the first is in its normal position.

No. 5090. WILLIAM JOHNSON, Shelby, N. Y., U. S., 24th August, 1875, for 5 years: "Barn Door Hanger." (Penture de porte d'étable.)

*Claim.*—1st. The movable double case or truck E, connected by saddle or bridge e, and carrying the single rollers D, or the double rollers D, in combination with the T-rail F, when the case is slotted to drop down upon the rail and clear the track of obstructions; 2nd. The hanger C, having hook e, in combination with and fitted to saddle e, of the movable double case or truck E, whereby a tilting movement is secured for the bottom of the barn door.

No. 5091. JOHN GERHARDT, and JAMES HUTCHISON, Montreal, Que., 24th August, 1875, for 5 years: "Portable re-sawing Gang Saws." (Scies multiples portatives pour refendre.)

*Claim.*—1st. The laterally and vertically adjustable hooked check plates K, in combination with the saws J, and saw frames E; 2nd. The adjusting screw A, and straining key g, combined with the hooked plates K; 3rd. The adjustable washers or saw-guides M, in combination with the adjustable tie-piece B, and spring D; 4th. The adjustable upper and lower openers Et, and F', in combination with adjustable shaft or axle G, coil spring H, and J, and collar or block-wheels H; 5th. The combination of the hooked plates K, the openers Et, F', springs D, the adjustable washers and saw-guides M, with the saws J, saw-frames E, feeding rollers P, P', and driving wheels e, e', e'.

No. 5092. PERLEY M. THOMPSON, Derby, Vt., U. S., 24th August, 1875, for 5 years: "Pipe Wrench." (Clé à visser les tuyaux.)

*Claim.*—1st. In combination with a forked wrench having a prong B, provided on its inner edge or face with hardened metallic teeth or prong C having its inner edge or face polished and case hardened; 2nd. The combination of the polished and case hardened inner surface of the prong C, with the hardened metallic teeth of the prong B.

No. 5093. JAMES KLINCK, Keswick, Ont., 24th August, 1875, for 5 years: "Meat Preserving Process." (Procédé de conservation de la viande.)

*Claim.*—Enclosing meat D, within an air tight chamber A, and subjecting the same to sulphurous-fumes produced by burning brimstone within the said chamber A, either by sprinkling the same upon a bar of red-hot iron E, or otherwise.

No. 5094. JOHN J. CURRAN, and CARLOS WILCOX, Chicago, Ill., U. S., 24th August, 1875, for 5 years: "Lumber Dryer." (Sécherie à bois.)

*Claim.*—1st. In a kiln for drying lumber the inclined floor D, extending beyond the ends of the kiln to form the landing and unloading platforms and provided with openings e, and sheet metal part C. 2nd. The flexible self adjusting car for lumber driers, consisting of the independent beams B, provided with wheels e, and connected by means of hooks K. 3rd. In combination with the inlet and exit pipes, the steam chamber D, provided with the valves p, operated by means of the rods s, 4th. In a hot air lumber drier, the combination with the inclined bottom B, and steam pipes E, E, of the horizontal partition at, and the vertical partition n, arranged alternately above and below the pipes; 5th. The combination in a hot air lumber drier of the steam chamber D, with valves p, and pipes t, pipes E, steam chamber G, and steam trap H; 6th. The combination of the kiln A, inclined bottom B, doors C, steam chambers D, G, pipes E, trap H, wide chimney J, and suction fan L.

No. 5095. PIERRE C. STE. MARIE, Montreal, Que., 26th August, 1875, for 5 years: "Screw-windlass for Steamers and Sailing-vessels." (Guindaux de vaisseaux à voile et à vapeur.)

*Claim.*—1st. The combination of the capstan E, having its drum head G, secured to the vertical spindle F, the endless screw I, and circular angling groove rim-plate (worm-wheel) J, in such a manner as to cause said capstan E, to work to the right hand; 2nd. The combination of the pawl lifter lever E, the shaft B, the cranks C, to which are linked the pawls D, with the capstan E, in such a manner as to disconnect the said pawls D, from the pawl wheels E, in order to reverse the motion of the windlass; 3rd. The combination of the two barrel wheels L, with the windlasses to heave up masts or any other heavy weights. 4th. The combination of the dials K, the ratchet-wheels J, the stop clicks u, and springs, the clicks s, and springs S, the squares r, the pitman q, the beams p, the eccentrics H, with the wild-cat head wheels N, N, to measure the paying out of the anchor-chain T; 5th. The chain hawse pipe X, having a groove k, to protect the cross-link of the anchor-chain T, from twisting on said hawse-pipe barrel X; 6th. The combination of the notch j, at the farther end of the plate W, and cam-lever l, with the chain stopper V, to stop the paying of the anchor-chain T; 7th. The combination of the anchor hanger chain lever Z, having a catch i, to hold up the anchor U, with the davit Y.

No. 5096. JOHN J. STEWART, Sargentville, Me., U. S., 26th August, 1875, for 5 years: "Pegging Jack." (Banc à cheville.)

*Claim.*—1st. The beds A, B, clamps E, screw-crank F, block C, stocks G, K, stud H, spring S, and staff Q, provided with the rest P; 2nd. The lever Q, stud H, and rod I, provided with the nut J, combined to operate as specified.

No. 5097. FRANCIS VAN DOREN, Adrian, Mich., U. S., 26th August, 1875, for 5 years: "Corn Planter." (Semoir à blé-d'inde.)

*Claim.*—1st. The reversible spring plate H, provided with the central notched block d, in combination with the planter A, shoe B, and rod c; 2nd. The reversible cut off consisting of the bar I, blocks h, h, at the ends thereof, and rubber pieces i, i, fastened to the blocks by central screws.

No. 5098. HARVEY SPRAGUE, Churchville, N. Y., U. S., 26th August, 1875, for 5 years: "Improvements on Carriages and Waggon." (Perfectionnements des voitures à quatre roues et autres.)

*Claim.*—1st. The combination of the side springs C, C, spring-rod D, cross-strap E, body loop H, and the angular braces u, u, extending from the centre of the reach to the outer ends of the rear axle; 2nd. The combination with the spring C, C, and spring reach J, of the cross-strap E, and the angular-braces G, G; 3rd. The combination of the pivoted side springs C, C, of the rear axle and bolster, the reach D, attached on the bottom of the axle, and the body loop H, fastened to the centre of the reach to prevent longitudinal motion thereof, from turning the axles; 4th. The circle plate I, dions e, e, and the king-bolt g, in front of the axle.

No. 5099. DENNIS P. SHARP, Ithaca, N. Y., U. S., 26th August, 1875, for 5 years: "Horse-rake." (Rateau à cheval.)

*Claim.*—1st. The combination with the axle B, and wheel A, of a rim a, formed on the wheel, and the friction pad b, on the axle resting therein, the connection being made by turning the pad against the inner periphery of the rim; 2nd. The combination of the rake teeth, formed at their upper ends with bends f, and hooks g, with the axle B, grooved as shown to receive the said bends, rod c, and bar H, arranged to permit the teeth to rise and fall without becoming detached.