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INVENTIONS PATENTED.

No. 5153. CHARLES BOECKH, Toronto, Ont., 8th September, 1875, for 5 years: "Improvements in Fibre and Bristle Combing Machines." (Perfectionnements aux machines à peigner les fibres et les soies de cochon.)

Claim.—1st. The combination with the frame G, G, provided with the bevelled flanged faces g, g, and revolving comb J, of the slotted guard plates K, K, or their equivalent; 2nd. The crank shaft H, with cone wheel I, comb J, and rods J, in combination with the driving shaft B, operated from the foot treadle E.

No. 5154. JAMES H. SHELDON, Chicago, Ill., U. S., (Co-inventor with and Assignee of W. W. HORTON), 8th September, 1875, for 5 years: "Improvements in the Manufacture of Illuminating Gas." (Perfectionnements dans la fabrication du gaz d'éclairage.)

Claim.—1st. The process of making illuminating gas by enriching gas evolved from wood or vegetable substances, by distilling hydrocarbons with such gas after it has been cleaned of its impurities, 2nd. The process of making illuminating gas by distilling hydrocarbons and uniting with their product, in the same retorts under high heat, gas evolved from wood or vegetable substances after being deprived of its impurities, 3rd. The process of making an illuminating gas by a union of gas evolved from wood or vegetable substances after being purified and gas evolved from hydrocarbons by heat, the union taking place at a common high temperature.

No. 5155. GEORGE H. THOMPSON, Oneida, AGUSTUS A. MATHEWS and MARCUS O. MATHEWS, Seneca, Ont., 10th September, 1875, for 5 years: "Apparatus to Prevent Horses from Jumping." (Appareil pour empêcher les chevaux de sauter.)

Claims.—1st. The circular shape of the projection B, 2nd. The mode of attaching to the halter, the hooks a, a, and the loose rings z, z. 3rd. The mode of attaching the strap by the loops o, o.

No. 5156. JAMES D. MANN, Kentville, N. S., 10th September, 1875, for 5 years: "Snow Plough." (Charrue à neige.)

Claim.—1st. The combination of the inclined surface A, with the snow-splitters B, B, and mould board C, 2nd. The combination of the flanges D, D, with the parallel sides E, E, and mould board C.

No. 5157. JOHN GUEST, jr., Merrickville, Ont., 10th September, 1875, for 5 years: "Churn Power." (Moteur de baratte.)

Claim.—1st. The adjustable eye f having screws secured by nuts g, in combination with the wheel D, having slots d, d. 2nd. The adjustable counter balance weight G, having screws secured by nuts g, in combination with the wheel D, having slots e, e.

No. 5158. ROBERT GILCHRIST, Louisville, Ky., U. S., 10th September, 1875, for 5 years: "Extension Ladder." (Echelle à rallonge.)

Claim.—1st. Two or more ladders E, E, pivoted together and applied one within the other, the pivot bolts serving as stepping rounds and bearings, in combination with finger bolts h, having pieces h, pivoted to them; 2nd. Pulleys G, G, with their ropes combined with eyes f, and ladders which are pivoted to standards B, and which are also pivoted together.

No. 5159. JAMES EDGAR, New York, U. S., 10th September, 1875, for 5 years: "Coal Shovel." (Pelle à charbon.)

Claim.—1st. A shovel stamped up of sheet metal together with its concave handle; 2nd. The combination of a projector C, with the concave handle B, of a scoop A.

No. 5160. JOHN W. MANN, Woodhouse, Ont., 10th September, 1875, for 10 years: "Seed Sower." (Semoir à grains.)

Claim.—1st. The manner of perforating the plate P, and sliding plate Q, through which the seeds pass and are evenly and uniformly distributed on the ground, 2nd. The construction and mode of working of the seed shifter M, by which the seeds are impelled through the holes, 3rd. The motion communicated to it through the arm F, by working in the grooved collar E.

No. 5161. FRANCIS M. GARDNER, Hornellsville, N. Y., U. S., 10th September, 1875, for 5 years: "Lifting Attachment for Shovels and Forks." (Appareil à lever les pelles et les fourches.)

Claim.—1st. A lifting attachment consisting of one or two arms and a handle, the one or both arms provided with a hook for attaching and detaching at will with lugs or clips on the handle, or with the blade of an ordinary shovel or scoop, or with the cross-bar or head of a pitch-fork, upon each side of the main rigid-handle, 2nd. The clamp or clip D, removably secured to the handle for the connection of the lifting attachment.

No. 5162. CHARLES B. LONG, Worcester, Mass., U. S., 10th September, 1875, for 5 years: "Leather Crimping Machine." (Machine à cambrer les cuirs.)

Claims.—1st. The pressure plates I, within the frames H, H, provided with projections f, f, in combination with the right and left hand screws F, 2nd. The pressure-plates I, within the frames H, H, operated automatically by the right and left hand screws F, in combination with the gears 1, 2, and 3 and the weighted levers L; 3rd. A series of crimping-jaws I, arranged one above the other, in combination with a series of levers adapted to vary the gripping-power of the jaws and to act independently upon each pair of jaws, 4th. The jaws or plates I, provided with right and left threaded devices for their positive adjustment in combination with the weighted levers L, 5th. The clamping jaws R, provided with the stems y, y, and levers 7, and 8 and adapted to be operated by rods z, z; 6th. In combination with the clamping jaws R, provided with a suitable guide for direction, the ear lever 7, connecting rod z and lever O; 7th. The combination of the lag z, spring catch l, lever Q, and upright shaft provided with a forked device for operating the clutch for engaging or releasing the pulley C; 8th. The combination of hand lever O, and pivoted lever P, forked arm K, and a weighted lever L; 9th. In combination with the endless chain c, provided with projections s and the pivoted cranks v, 10th. The combination with the presser plates I of the projections f, f, right and left hand screws F, gears 1, 2, and 3, levers L, and weights J; 11th. The combination of the plates I, projections f, f, right and left screws F, gears 1, 2, and 3,