

No. 8659. Combined Rein and Whip-holder.*(Accroche-guide et porte-fouet combinés.)*

John Johnston, Iona, and Mark Silcox, Dutton, Ont., 24th April, 1878, for 5 years.

Claim.—The combination of the standard A, the holder E, together with the tooth plate D.**No. 8660. Improvements on Waggon Brakes.***(Perfectionnements aux freins des wagons.)*

Alfred Hart and Desmond P. Hopkins, San-Marco, Texas, U. S., 24th April, 1878, for 5 years.

Claim.—The movable waggon body A, the longitudinally adjustable perch C, cranked shaft H, carrying shoes G, pivoted supporting arms V, connecting rods E, and a suitable locking device applied to one of said arms, and the waggon body, in combination with the front and rear bolsters F E, front and rear hounds, and running gear.**No. 8661. Improvements in Flying Machines.***(Perfectionnements aux machines volantes.)*

James J. Pennington, Henryville, Ten., U. S., 24th April, 1878, for 5 years.

Claim.—1st. The combination of a movable casing B, having air-conduits F and an air-discharge or blast tube C, with a revolving fan E and supporting frame A; 2nd. The gate H, in combination with the discharge nozzle C having the fan-shaped end.**No. 8662. Improvements in Sewing Machines.***(Perfectionnements dans les machines à coudre.)*

Joseph M. Cook, New York, (Assignee of George E. Hart, Newark, N. J.) U. S., 24th April, 1878, for 5 years.

Claim.—1st. The combination with a fixed bracket, of the presser foot carrying a fixed laying hub and loop carrier with a vertical shaft operated by a projection upon the needle bar of a sewing machine, and transmitting rotary reciprocating motion to the loop carrier; 2nd. In combination with the presser foot A, carrying the bracket C and the fixed laying hub B, and loop carrier C the spirally grooved shaft F, adapted to be operated by a projection upon the needle-bar of a sewing machine, and the gears D and E.**No. 8663. Improvements in Door Hangers.***(Perfectionnements dans les ferrures des portes.)*

Warren E. Warner, Syracuse, N. Y., U. S., 24th April, 1878, for 5 years.

Claim.—1st. A hanger having a suspension device for suspending the door by the edges attached in the manner specified; 2nd. The adjustable hanger consisting of the compound roller carriages connected by a rod D; 3rd. The suspending rods S, attached to the roller frame, provided with the friction roller R and an adjustable device; 4th. In combination with the plate D, the drop stop O, its range of motion being limited by the pins I L, the device being adapted to be fastened on the inner edge of a door to prevent it running out too far.**No. 8664. Improvements on Carriage Seats.***(Perfectionnements aux sièges des voitures.)*

Pierre U. Tétu, St. Pudentienne, Que., 24th April, 1878, for 5 years.

Résumé.—Le ressort, l'écrou, le brocho de fer servant de bras, la peinture et la ferrure dans laquelle passe le bras, comprenant les figures ABCDE.**No. 8665. Apparatus for Controlling Gas.***(Appareil à contrôler le gaz.)*

George Weston, Sheffield, Eng., 24th April, 1878, for 5 years.

Claim.—1st. The diaphragm C and valve G, in combination with the casing consisting of the discs A F having the inlet C and outlet D and tube H; 2nd. The combination of the casing A F having the inlet C and outlet K, the valve I, spring lever M and adjusting screw T; 3rd. The rubber discs V, ring G and adjusting screw B, in combination with the valve V; 4th. The combination of the casing C, having the inlet C, outlet D, and liquid chamber E, the tube G and float F; 5th. The combination of the chamber D, having mercury filled recess H, inlet I and outlet J, the cup-shaped valve K and air supply pipe M; 6th. The combination of the diaphragm C, lever T and flexible tube N; 7th. The combination of the electro magnet L, having the armature H, the valve G and diaphragm C; 8th. The electro magnet M, having the armature N, in combination with the flexible tube K; 9th. The protected igniting burner and the burner B, in combination with a device for controlling the flow of gas to the said burner B.**No. 8666. Improvements on Postage Stamps.***(Perfectionnements aux timbres-poste.)*

James Sangster, Robert Dunbar and George H. Dunbar, Buffalo, N. Y., U. S., 24th April, 1878, for 5 years.

Claim.—1st. Postage or other stamp having the ink composing the stamp design more easily removable in the treated portions A than in the untreated portions of the stamp; 2nd. A postage or other stamp treated with an alkali or its equivalent, whereby the cancelling ink, when put on, becomes indelible in the portions so treated.**No. 8667. Improvements on Hay Knives.***(Perfectionnements aux couteaux à foin.)*

John Granger, Dunbarton, Ont., 24th April, 1878, for 5 years.

Claim.—The combination of the handle D, shank B, foot bar C and blade A.**No. 8668. Improvements in Bridge Building.***(Perfectionnements dans la construction des ponts.)*

Edward Wasell, Digby, N. S., 24th April, 1878, for 5 years.

Claim.—1st. The combination of the sheath-like casting F, the rails or bars acting as chords or posts K and J and fastened together; 2nd. The combination of the sheath-like castings A and C, the rails K and I, the

cables A E D B D E C and the pin P fastened together; 3rd. The combination of the castings E D and B, having grooved, or semi-circular, or curved beds H and ears, or lugs G, with the posts I, the chords J and the chains, ropes or cables A E D B D E C.

No. 8669. Process for Drying and Preserving.*(Procédé pour sécher et conserver.)*

Andrew J. Chase, Boston, Mass., U. S., 24th April, 1878, for 5 years.

Claim.—The process for drying and preserving, consisting of passing, through a cooling receptacle, after which it is passed through a moistening absorbing material and finally ruffled and expanded by means of heat previous to its entering the preserving room.**No. 8670. Machine for Drawing Wire.***(Machine à dégrossir le fil métallique.)*

Charles D. Rogers, Providence, R. I., U. S., 24th April, 1878, for 15 years.

Claim.—1st. The combination with the drum and the draw plate, of stopping mechanism, whereby when the wire breaks between the draw plate and drum, the latter will be prevented from revolving; 2nd. The combination with the drum and its driving shaft, of stopping mechanism controlled by a reel standard, whereby when the reel standard is unduly displaced from its proper position the drum will be stopped; 3rd. The combination with the drum of a wire drawing machine, of a presser for preventing the wire from uncoiling; 4th. In combination with a drum in a wire drawing machine and stopping mechanism, of a presser whereby, when the drum is stopped, the presser is caused to engage with the wire coiled on the drum; 5th. The combination with the driving shaft, the drum and its connecting clutch, of a disc on the shaft, its latch, a spring slide controlled either by a die plate or reel standard, or both a sleeve provided with inclined flanges, loosely mounted on the shaft, and a cross head for lifting the drum.**No. 8671. Improvements in Picture Frames.***(Perfectionnements dans les cadres d'images.)*

Sylvester C. Bigford, Toronto, Ont., 24th April, 1878, for 5 years.

Claim.—A moulding for picture and other frames constructed with the member B, which member is cut from the solid wood of moulding forming an integral portion thereof, and serving the purpose of a retaining strip for the glass, &c., and an inner margin to the frame.**No. 8672. Improvement on Stump Machines.***(Perfectionnement des arrache-souches.)*

James W. Anderson and Charles F. Anderson, Elora, Ont., 24th April, 1878, for 5 years.

Claim.—1st. The combination of the grab iron I with the lower chain K and pocket wheel H; 2nd. The combination of the pall, and trap weight B; 3rd. The combination of the driving wheel D, the driving chain F and the friction pulleys T T.**No. 8673. Improvements on Saw-mill Carriages.***(Perfectionnements aux charriots de scieries.)*

Robert McQuire, Chatham, N. B., 24th April, 1878, for 5 years.

Claim.—In combination with an endless rope revolving below the carriage way, a truck C, having one or more frames Q, constructed with clamp blocks R, sliding frame S, having block T and operated by a lever V, for clamping the rope P.**No. 8674. Process for making Pails from Pulp.***(Procédé pour faire des seaux de pulpe.)*

Ezra B. Eddy, Hull, Que., (Assignee of Eber Hubbard, Medina, N. Y., U. S.,) 24th April, 1878, for 5 years.

Claim.—1st. The combination of the conical form E with the flaring nozzle G, placed thereon and forming the shoulder at the junction; 2nd. The combination at the conical form E with the flaring ring G, in combination with a series of exterior compressible staves B; 3rd. The combination of the compressible staves B and the retracting spring G, connected thereto; 4th. The combination of the bed A, with post H, staves B, rings C, inner former E G, cover I and key J.**No. 8675. Improvements on Holdbacks and Trace Detachers.***(Perfectionnements aux raygals de limonières et aux crochets de poulmiers.)*

Almon B. Roberts, Brooks, Me., U. S., 25th April, 1878, for 5 years.

Claim.—1st. The base plate A formed with the recess a, boss b, hole d ears C, with slot between them, in combination with the hook B, with the arm H, the latch C, with head C, and the spring D; 2nd. The combination of the recessed perforated and slotted base-plate A, having boss b and ears C, the hook B with arm H and tenon h, the latch C with head C and the spring D; 3rd. In combination with the whistle-tree A, the rotary detacher C, constructed with central projection A, formed or arranged to rest and bear on the top of the whistle-tree, while the traces are drawing upon the quadrantal hooks b₂ b₂; 4th. In combination with the cross-bar B, the whistle-tree A, and the rotary detacher C, constructed and applied as described, the holding spring D, fixed to the cross-bar and arranged with the bow a.**No. 8676. Improvements on Lawn Mowers.***(Perfectionnements aux faucheuses à bras.)*

William J. Lloyd, William W. Supplee and Coates Walton, Philadelphia, Pa., U. S., 25th April, 1878, for 5 years.

Claim.—1st. The sectional ratchet caps fitted to the driving shaft; 2nd. The driving shaft constructed of tubular form and clutched to one of the wheels of the gearing of the rotary cutter; 3rd. The tubular driving shaft with an inclosed stay-rod; 4th. The bearings of the cutter-shaft formed with movable caps which are jointed to the stationary portions and provided with screws, so as to be adjusted in right lines and axially; 5th. The great box