

suitable means of tightening the said sleeves together; 11th. The mode of coupling telegraph wires consisting in bending the wires out of line, inserting between them a grooved conducting strip and compressing the whole between insulating blocks; 12th. The mode of coupling telegraph wires by soldering, twisting or amalgamating the ends together and then pressing them between blocks of insulating material; 13th. The coupling consisting of two perforated blocks of insulating substance in combination with suitable means of forcing them together; 14th. The coupling consisting of two perforated blocks of insulating substance, suitable means of forcing them together and interposed conducting strips; 15th. The coupling consisting of two blocks of insulating material and the flanged sleeves enclosing said blocks with suitable means of forcing them together.

#### No. 10,451. Improvements on Fountain Pens. (*Perfectionnements aux plumes-fontaines.*)

Alonso T. Cross, Providence, R. I., U. S., 12th September, 1879 for 5 years.

*Claim.*—1st. The air passage made in the solid side or wall of the ink reservoir and extending from the vent valve or cap, at the upper end of the holder, to a point near the lower end of the ink chamber; 2nd. The combination of the reservoir and point section by means of a movable tubular coupling; 3rd. The combination of an adjustable spindle holder with a removable tubular coupling serving to connect the spindle holder, point section and main reservoir together; 4th. The combination of the spindle holder J, pin I, tube or cylinder G provided with a hole g and collar H, spring K and washer L; 5th. A tapering pointed ink delivering tube combined with a writing spindle tipped with a piece of iridium, or other hard substance, provided with a fluted edge.

#### No. 10,452. Land Roller. (*Rouleau d'agriculture.*)

Oscar F. Shafer, London, Ont., 15th September, 1879 (Extension of Patent No. 3,848), for 5 years.

#### No. 10,453. Improvements in Pipe Joints. (*Perfectionnements aux joints de tuyaux.*)

Abraham Edwards, Philadelphia, Pa., U. S., 15th September, 1879, for 5 years.

*Claim.*—1st. In combination with the neck or boss a or the outlet or neck of a basin, bowl, tub or other fixture and a waste or discharge pipe B, a sliding pipe H adapted to be moved down into said waste pipe and to form a close conduit connection between it and said neck or outlet, when raised; 2nd. The combination of waste pipe B, mercury trap consisting of cap C and trough B<sub>2</sub> and a sliding pipe H adapted to fit in said waste pipe, when the said cap is lowered and sealed, and to be elevated when said cap is raised or opened; 3rd. The combination, with a neck or outlet a, of waste or discharge B, cap C, sliding pipe H and intermediate mechanism for drawing up said pipe when said cap is lifted; 4th. The combination of pipe B, cap C and sliding pipe H with hangers C<sub>2</sub> C<sub>3</sub>, levers I I and pitmans K K, constructed and combined for operation; 5th. The combination, with cap C, of pinion or shaft K, winch or crank c and handle or rod D; 6th. The combination of cap C, sliding pipe H and intermediate mechanism connecting said pipe and cap, a shaft C<sub>1</sub>, rod or handle D and arm E with weight e; 7th. In combination with the pipe B, the mercury trough B<sub>2</sub>, having flaring or lipped sides or walls to prevent the slopping over of the fluid or metal contained in said trough; 8th. The cap Q, having depending segmental racks R R, in combination with pipe S having teeth or openings s<sub>1</sub> s<sub>2</sub> meshing therewith; 9th. The combination, with the seal case O, of basin N, flange bolted thereto; and sliding pipe S arranged and operating to form, when raised, a connection with said basin and a direct close conduit therefrom to pipe P or trap S<sub>1</sub>.

#### No. 10,454. Mode of Preparing Hides for Tanning. (*Mode de préparation des peaux pour le tannage.*)

John B. Burland, Montreal, Que. (Assignee of Charles J. Tinnerholm, Brooklyn, N. Y., U. S.), 15th September, 1879, for 5 years.

*Claim.*—1st. A compound of water, unslaked lime, soda ash, salt-petre and flour of sulphur; 2nd. A compound of water, unslaked lime, soda ash, salt-petre and flour of sulphur, in combination with a bath of caustic ammonia, sal soda and borax.

#### No. 10,455. Vehicle Brake. (*Frein de voiture.*)

William D. C. Pattysan and William Farwell, Sherbrooke, Que., 15th September, 1879, for 5 years.

*Claim.*—1st. The combination of lever A and its connections with brake F; 2nd. The slide lever D in combination with draft rods B and E; 3rd. The combination of withdraw lever C and its strap K with the brake rod B; 4th. The combination of lock link G and its cord H with brake connections at lever D; 5th. The combination of lever A, lever C, brake connections B D E, lock link G with brake F.

#### No. 10,456. Improvements on Sash Balances. (*Perfectionnements aux contre-poids de croisées.*)

William Milner, Strathroy, Ont., 15th September, 1879, for 5 years.

*Claim.*—1st. The endless screw-winder G meshing into cog-wheel E rigidly attached to winding axle b, when used singly or in combination with the lower box B and cog-wheel F; 2nd. The combination of cone shaped box B, when used to contain a light spring to regulate the action of the upper spring contained in box A which carries the weight of the sash; 3rd. The arrangement of boxes A, B, when placed side by side so that the winder G operates both springs simultaneously.

#### No. 10,457. Machine for Distributing Insecticide Liquid. (*Machine à distribuer le liquide insecticide.*)

John Burns and William H. Baldwin, Ottawa, Ont., 16th September, 1879, for 5 years.

*Claim.*—1st. The tube A having bellows B fitted to end C, and provided with branch pipe D attached to flexible tube E, the whole arranged together and combined with tank F; 2nd. A tank, for insecticide fluid, containing an agitator H fitted to the sides of tank F and holding, at its base, a brush.

#### No. 10,458. Fly-Wheel for Engines. (*Roue d'air pour les machines à vapeur.*)

Pierre E. Jay, New York, U. S., 17th September, 1879, for 5 years.

*Claim.*—In combination with the wheel A, the arm having the slot c and and the thimble d.

#### No. 10,459. Method of Curing Fish. (*Manière de saler le poisson.*)

Lyman Woodruff, Ellensburg, Oregon, U. S., 18th September, 1879, for 5 years.

*Claim.*—The process for treating and curing the fish or meats consisting in subjecting the article to a dressing.

#### No. 10,460. Improvements on Flower Stands. (*Perfectionnements aux jardinières.*)

Frederick Snyder, Berlin, Ont., 18th September, 1879, for 10 years.

*Claim.*—The combination of the flower stand with the fountain.

#### No. 10,461. Boot and Shoe Pegging Machine. (*Machine à cheville les chaussures.*)

William G. Badlong, Providence, R. I., U. S., 18th September, 1879, for 5 years.

*Claim.*—1st. The combination of the following instrumentalities, a device for feeding and corrugating the wire, a device for shaping and separating the nail, an oscillating carrier, a locking device for locking the carrier and a driver arranged to drive the nail by a blow; 2nd. The combination of a device for feeding and corrugating the wire, a device for regulating the length of the nails, a device for shaping and cutting the wires into the varying lengths, a driving device and a work feeding device; 3rd. The combination, with the corrugating and feeding rolls, of a fixed tube or holder, a reciprocating cutter and an oscillating carrier provided with a hole arranged to hold the nail, when it is separated from the wire, and carry the same and hold it under the driver; 4th. The combination, with the corrugating and feeding rolls of a shoe nailing machine, of a device for regulating the rotation of the rolls and the length of the wire delivered so as to vary the length of the nail, during the operation of the machine; 5th. The combination, with a nail carrier, arranged to carry the nail from the cutter to the driver, and a work feeding device, of a yielding slide placed below the carrier, to prevent the falling of the nail from the carrier, and provided with a hole to receive the nail arranged to yield to the work feeding device; 6th. The combination, with the driving shaft B, of the cams C D E F G and H arranged to operate the various parts; 7th. The combination, with the carrier K provided with the segmental gear, of the slide d<sub>1</sub> provided with the rack at its end, the lever d and cam D, the whole arranged to oscillate the carrier so as to bring the hole in the carrier, alternately, under the holding tube t and under the driver; 8th. The combination, with the rack f<sub>3</sub> arranged to rotate the feeding and corrugating rolls f<sub>5</sub> f<sub>6</sub>, of the slide f<sub>7</sub> provided with the serrated stops, arranged to arrest the descent of the rack and regulate the length of the nails; 9th. The combination, with the cam F, rod f<sub>1</sub> and arm f, of the spring f<sub>2</sub>, rack f<sub>3</sub> and adjustable stop f<sub>4</sub>, the whole arranged so that the rod and rack are raised by the cam and forced down by the spring, until the rack is arrested by the adjustable stop f<sub>4</sub> and the reciprocation of the rack is regulated; 10th. The combination, with the carrier K and the work feeding arm g<sub>1</sub>, of the spring pressed slide l arranged to yield to the feeding arm; 11th. The combination, with the slide f<sub>7</sub> provided with the graduated stops, of the bevel gears f<sub>3</sub> connected with the slide by a pin and slot arranged to regulate the length of the fastening device in a shoe nailing machine; 12th. The combination, with the spring pressed driver A, of the oscillating carrier K, the work feeder arm g<sub>1</sub> and the slide i, the whole arranged to carry the nail under the driver and over the hole in the slide i, drive the nail and feed the work.

#### No. 10,462. Improvements in Door Fastenings. (*Perfectionnements aux fermetures des portes.*)

Thomas P. White, Ashtabula, Ohio, U. S., 18th September, 1873, for 5 years.

*Claim.*—The combination of the barrel C, having the slots e e<sub>1</sub> e<sub>2</sub>, with the chain bar D provided with the handle d and the hook d<sub>1</sub>.

#### No. 10,463. Broom Holder. (*Porte-balai.*)

Joseph D. Leach, Penobscot, Me., U. S., 18th September, 1879, for 5 years.

*Claim.*—A broom holder formed of a single piece of wire and with the eye a, members b b, jaws c c and the slotted shield d formed to receive the wire holder.

#### No. 10,464. Churn Dasher. (*Batte-beurre.*)

William R. Walker, Ronceverte, Va., U. S., 18th September, 1879, for 5 years.

*Claim.*—The cylindrical perforated cup A, having a socket tube B braided by radial blades a, and provided also with a conical and upwardly flaring flange b, located upon the upper and outer surface of the dasher about the socket tube and rising from the plane of the top of the cap.

#### No. 10,465. School Desk and Seat. (*Pupitre et banc d'écoles.*)

Oliver S. Garretson, Buffalo, N. Y., U. S., 19th September, 1879, for 5 years.

*Claim.*—1st. The wedge u acting against the wood at c, to force the incline plane a to its seat beside the dovetail groove in the wood and there held by the screw o. 2nd. Constructing the parts of a seat or desk so that, when they are put together, the torsional spring of the irons will exert a constant pressure against the hinged joint, for the purpose of maintaining it, by friction, in any position; 3rd. The external stops s in conjunction with the internal stop P and cushion e; 4th. The rounded tongues and grooves J J, the tongues standing out upon opposite sides of the respective edges of the slats.