

No. 10,668. Furnace for Distilling Wood, &c.*(Fourneau pour distiller le bois, &c.)*

Jean A. Mathieu, Philadelphia, Penn., U. S., 21st November, 1879, for 5 years.

Claim.—1st. The combination of a retort and condenser, having a pipe which communicates with the grate chamber, with a safety apparatus intermediate between the condenser and grate chamber, whereby the passage of flame to the condenser is prevented; 2nd. The combination of the spout *S* and the exit pipe of the condenser with the safety apparatus, having the induction pipe *T* dipping into a sealing liquid, and a discharge pipe controlled by a valve; 3rd. The combination of a retort with a fan and closed grate chamber whose flues communicate with the interior of the retort, whereby the products of combustion from the grate are forced into the retort under pressure; 4th. The combination, with a lesser retort *A* and main retort *M*, of fans and closed grate chambers, having flues communicating with the main retort, and condensers *D* communicating through safety apparatus with the grate chambers, whereby the non-condensable gases from both retorts are burned and the products of combustion forced into the main retort under pressure; 5th. The combination of a retort, having a concave bottom, with an arch or vault of refractory material, constructed independently of the retort but in close contact throughout with the concave surface thereof, and maintained in position thereby; 6th. The condensers *D* formed in two separate compartments *d*, the latter communicating with the air pump or other equivalent exhausting device, whereby condensation is effected in the one compartment, by the evaporation of a volatile liquid in the other; 7th. The auxiliary slide *c* in combination with the rods *w*, sleeves *x* and wheels *y*, or their equivalents; 8th. The combination of the lattice work quarter cylinders *A* revolving upon the pivots *q*, with the upper half cylinder *f*, lid *b*, barrel *Q*, rod *j* and sleeve *j*.

No. 10,669. Improvements on Blotting Pads.*(Perfectionnements aux buvards.)*

John A. Rennie and James T. Sawyer, Montreal, Que., 21st November, 1879, for 5 years.

Claim.—1st. The combination of the card board, or other suitable material *a*, receptacles or cuts *b*, with the blotting paper *c*; 2nd. The combination of the card board, or other suitable material *a*, receptacles or cuts *b*, blotting paper *c*, extra pieces of card board, or other material *d*; 3rd. As a new article of manufacture, the pad constructed by the combination of the parts *a* *b* *c* *d*.

No. 10,670. Improvements on Curry Combs.*(Perfectionnements aux étrilles.)*

Lorenzo D. Cleaveland, Benjamin F. Babcock and John H. Rea, Chicago (Assignees of Elijah Harris, Princeton, Ill., U. S., 21st November, 1879, for 5 years.

Claim.—1st. The disk *A* combined with a toothed spiral plate *C* which is held to the disk *A*, at intervals, whereby it is enabled to expand and contract; 2nd. The combination of the disk *A*, toothed spiral spring *C*, rod *L* and centre core *D*; 3rd. The combination of the disk *A*, toothed spiral spring *C*, rod *L* and stops *a*.

No. 10,671. Improvements on Steam Boilers.*(Perfectionnements aux chaudières à vapeur.)*

Warden King, (Assignee of Archibald Spence), Montreal, Que., 21st November, 1879 (Extension of Patent, No. 4682), for 5 years.

No. 10,672. Improvements in Bed Bottoms.*(Perfectionnements aux fonds des lits.)*

Robert E. Campbell, Chicago, Ill., U. S., 21st November, 1879, for 5 years.

Claim.—1st. The combination of a bed bottom with the post of a bedstead, by means of the thimble sockets *D D D D*; 2nd. The ratchet stands *G G*, recessed at *K* and made with bevelled bearings *S S*, in combination with the conical journals *L L* at the sides of the ratchet, the weighted pawls *I* placed in recesses below the ratchet *H*, the bolts *J J*, roller *F*, side rails *A*, bar *E* and ratchet *H*.

No. 10,673. Improvements on Vehicle Springs.*(Perfectionnements aux ressorts des voitures.)*

Orson S. Garton, North Brookfield, N. Y., U. S., 21st November, 1879, for 5 years.

Claim.—1st. In a wagon gear, the reach connected with the axle by a clip king bolt *C*, secured to the axle and pivoted between plates or bars which are fastened to the reach; 2nd. The elliptic side springs connected with the double sets of half end springs, by means of the spring bars *C* secured upon the elliptic side springs; 3rd. The elliptic side spring *E*, spring bar *G*, bed piece *I*, half springs *K* and clips *H*; 4th. The elliptic side spring *E*, spring bar *G*, bed piece *I*, half springs *K*, clips *H*, frame *L* and cross bar *M*.

No. 10,674. Improvements on Fountain Pens.*(Perfectionnements aux plumes-fontaines.)*

LeRoy Hooker, Quebec, Que., 21st November, 1879, for 5 years.

Claim.—1st. The metal tube *A* in combination with the holder; 2nd. The rubber tube *D* in combination with the metal tube *A*; 3rd. The strips of chamois leather *E*, or other conducting material, in combination with the rubber tube *D* and metal tube *A*; 4th. The proportions of the various parts which provide for the circulation of ink and of air in the working of the pen.

No. 10,675. Sample and Merchandise Mail Case. *(Valise à échantillons et marchandises pour la malle-poste.)*

Solon G. Howe and Charles M. Dalley, Detroit, Mich., U. S., 21st November, 1879, for 5 years.

Claim.—The body *A*, provided with the fastening screw *B* fastened to the body, and the top *C*, rabbetted on its edge and adapted to serve as a nut, for the point of the screw *B* to enter into.

No. 10,676. Galvanic Piles for Medical Purposes. *(Piles galvaniques pour des fins médicales.)*

Frances J. Tongue and Columbia Drew, Chicago, Ill., U. S., 21st November, 1879, for 5 years.

Claim.—1st. In a galvanic pad for medical application, the series of cut away plates *C*, gradually increasing in size, in combination with the upper series of disk plates *D*; 2nd. In a galvanic pad, the case *A*, provided with a removable cover, in combination with the plates composing the pile arranged loosely within the former, and thereby held in place to form the pile; 3rd. The case *A*, provided with an aperture *a* in its bottom, in combination with the perforated disk plate *B*, plates *C* *D* and cover *E*; 4th. The case *A* in combination with the plates *C* *D*, composing the pile, the spring *F* and cover *E* secured to the case by a detachable fastening.

No. 10,677. Improvements on Eye Glasses.*(Perfectionnements aux lunettes.)*

John McCord and Thomas Hopkins, Philadelphia, Penn., (Assignees of James F. L. Anderson, Princeton, N. J.), U. S., 21st November, 1879, for 5 years.

Claim.—1st. The roughened nose rests *F* *F* pivoted to the curved arms or to the frames of an eye glass; 2nd. In combination with the lenses *A*, studs *B*, screws *C*, spring *D* and curved arms *E* of an eye-glass, the roughened nose rests *F* *F*; 3rd. Nose rests *F* *F* roughened on their convex surfaces, or provided with roughened strips of metal, horn, or other suitable material.

No. 10,678. Improvements in Sewing Machines. *(Perfectionnements aux machines à coudre.)*

Richard M. Wanzler, (Assignee of Joseph B. McCune and James F. Chamberlain), Hamilton, Ont., 21st November, 1879, for 5 years.

Claim.—1st. In combination with a sewing machine, two parallel shafts *B* *E*, the former working the needle bar and the latter for operating the shuttle, both being connected by the upright shaft *G* and bevel gears; 2nd. In combination with a sewing machine, the feed cams *a* *b* formed solid on the lower shaft *E*; 3rd. The bracket *M*, cap *N*, groove *O*, in combination with the rack bar *P*, pinion *S* and stud *Q*; 4th. The face plate *U*, resting against the four screws *c*, &c., in the head, in combination with a triangular needle bar for taking up the wear of the same; 5th. The combination of the tension mechanism in the shuttle, consisting of the stud *f*, spring *h*, washers *g*; 6th. In combination with the shuttle, the spring *o* to hold down the cover *V*; 7th. In combination with the tension mechanism of the shuttle, the hook *t*, to assist in giving proper tension to the thread; 8th. In combination with the shuttle, the attaching of the stud *f*, spring *h*, washers *g*, hook *t*, to the under side of the hinged cover *V*.

No. 10,679. Process for the Manufacture of Goods from Caoutchouc. *(Procédé pour la fabrication des objets de caoutchouc.)*

Henry Gerner, New York, U. S., 21st November, 1879, for 5 years.

Claim.—1st. Incorporating camphor, in different proportions, with caoutchouc, gutta percha and analogous gums with sulphur, or sulphur in its combinations, together with other ingredients introduced for various purposes, and exposing the compound to heat in order to vulcanize the same; 2nd. Vulcanizing such compounds, in closed vessels, by immersing them in alcohol, either alone or in combination with metallic oxides, alkalis, &c.; 3rd. Bleaching and colouring goods and articles resulting from the vulcanization of such compounds, by immersing them in chemical baths.

No. 10,680. Improvements in Ironing Boards.*(Perfectionnements aux planches à repasser.)*

Richard Troy, Oshawa, Ont., 21st November, 1879, for 5 years.

Claim.—1st. The combination of the clamp plate *C* and the adjustable leg *D* with the supplementary board *E*; 2nd. The combination of the supplementary board *E* with the sad iron stand *B*.

No. 10,681. Composition of Matter for Receiving Impressions of Writing and Transferring the same on to Paper. *(Composé pour recevoir des impressions d'écriture et les transmettre sur le papier.)*

John H. Hugill, Guelph, Ont., 21st November, 1879, for 5 years.

Claim.—1st. A pad composed of glue with glycerine, oil of cinnamon, carbonate of magnesia, carbolic acid, flake white and water, or their equivalents, used for the purpose of receiving and retransferring written impressions; 2nd. An ink composed of water, sugar, methyl violet, or other ingredient of like nature; 3rd. A pad used in combination with ink.

No. 10,681. Improvements on Fountain Pens.*(Perfectionnements aux plumes-fontaines.)*

Alonzo T. Cross, Providence, R. I., U. S., 21st November, 1879, for 5 years.

Claim.—1st. The combination of the spindle *E*, holder or guide *F* and spring rod *D* with an ink reservoir; 2nd. The combination of the spindle *E*, holder or guide *F* and spring rod *D* with an ink reservoir *A*, provided with an air duct within its side wall; 3rd. The ink reservoir, provided with an air duct within its side wall and combined with a metallic solid or hollow rod, serving both to support the writing spindle and to strengthen the screw for the vent valve; 4th. The side orifice *N* made to connect with the closed bore *P* of the spindle holder or guide, for the purpose of ink circulation.