

No. 9678. Improvements in Fanning Mills.*(Perfectionnements aux tarareurs-cribleurs.)*

Andrew B. McKay, Braemar, Ont., 18th February, 1879, for 5 years.

Claim.—1st. A bag filling attachment, for fanning mills, composed of the elevating leg B arranged to receive the clean grain from the delivering board C and driven from the fan shaft of the mill or from any other suitable part, in such manner that the grain can be elevated and deposited into bags hung on the outer end of the elevating leg; 2nd. A portable combined grain elevating and bag filling attachment, for fanning mills, which can also be used as a bag-holder for filling grain by the hand; 3rd. The combination of the elevating leg B with bag holding attachment with a fanning mill.

No. 9679. Improvements in Candle Apparatus.*(Perfectionnements aux machines à chandelle.)*

Auguste F. Collette, St. Luc, and Jacob C. Ulric, Chambly, Que., 20th February, 1879, for 5 years.

Claim.—1st. In a candle making apparatus, the combination of a boiler A and pipes D and K with the tank C, melting vat E and frame L; 2nd. In a candle manufacturing apparatus, the combination of the dripping plunger Q, having slides R, with the candle holder S, having dovetailed or L-shaped strips b and books c, with the frame L, having slide rods O O and cross-beam P, with pulley a; 3rd. The combination, with a candle making apparatus having the dripping plunger Q fitted with candle holder S, of the rope or chain T, pulley a and winch d.

No. 9680. Improvements in Spring Hinges.*(Perfectionnements aux pentures à ressort.)*

James Spruce, Waterbury, Ct., U. S., 20th February, 1879, for 5 years.

Claim.—A spring hinge, having a spiral spring arranged around the pin, and bearing upon each leaf a tubular bearing extending from the inner knuckle on to the spindle, and between the spindle and the spring on that side opposite the bearing, but partially encircling the spindle, and made fast to, or a part of the knuckle.

No. 9681. Improvements on Ice Boats and Dredges. *(Perfectionnements aux brise-glaces et dragueurs.)*

Frank M. Mahan, St. Joseph, Mo., U. S., 20th February, 1879, for 5 years.

Claim.—1st. The combination, with a steam vessel, of a gang of saws upon its bow and breakers, working in unison therewith, to knock off the ice blocks; 2nd. The combination, with a steam vessel and a vertically adjustable frame arranged at the bows, of a gang of circular saws journaled in said frame and breakers extending across the gang, inside of the cutting portion of said saws; 3rd. An ice breaking steam vessel having a gang of saws at its bow, and breakers extending across the gang, a double hull at its after portion and a propelling wheel in the space between the hulls, whereby it is protected from contact with the broken up ice.

No. 9682. Improvements in Bridge Trusses.*(Perfectionnements aux armatures des ponts.)*

Edward Wasell, Digby, N. S., 20th February, 1879, for 5 years.

Claim.—1st. The combination of railway rails, or beams of a similar shape and section of iron or steel, consisting of a horizontal girder R R, a post brace or tie D, either notched in the flanges and locked in between the girders R R or secured by castings or forgings n and an arch or curved rib F F; 2nd. The combination of I T or J beams of iron or steel with the castings or forgings C, bolts or rivets e and pivot pin I, securing a pivotal connection at the springing and at the crown of the arch.

No. 9683. Improvements on Mashing Process.*(Perfectionnements aux procédés de trituration.)*

Alfred E. Feroe, Tivoli, N. Y., U. S., 20th February, 1879, for 5 years.

Claim.—1st. The combination, with the mash tub a, of the heating tub b and pump c connected by pipes d f and g; 2nd. In combination with the mash tub a, the grid of pipes h connected with the pipe d from the heating tub b; 3rd. The improved mashing process set forth, the same consisting in, first: dissolving the diastase at a proper temperature and, then, by gradually raising the temperature of the whole mash, by the circulation described, to convert the starch.

No. 9684. Improvements on Reefing Fore and Aft Sails. *(Perfectionnements pour arriser les voiles auriques.)*

Thomas P. Ball, Brooklyn, (Assignee of Joseph L. Dickenson, Hempstead), N. Y., U. S., 20th February, 1879, for 5 years.

Claim.—1st. The combination of the reef brails G H with the sail B, the gaff E and the mast hoops D for reefing the upper inner corner of the said sail B; 2nd. The block jaw J attached to the upper side of the inner end of the gaff E to rest against the mast A and keep the said inner end of the gaff in place when the said gaff is lowered in reefing.

No. 9685. Improvements on Seed Sowers.*(Perfectionnements aux semoirs à grain.)*

James M. Aitchison and Charles McBean, Napanee, Ont., 20th February, 1879, for 15 years.

Claim.—1st. The combination of the broad cast seed and plaster sower, as attached to an ordinary horse rake or other suitable machine; 2nd. The combination of the seed or plaster box A with the agitator B, slide E E, and adjusting slide a and scatterer g g; 3rd. The combination of the seed box with plaster slide, said plaster slide comprising fixed part b, movable part d and parallel motion bars e e e.

No. 9686. Improvements on Hand Trucks.*(Perfectionnements aux camions à bras.)*

Moses Johnson and M. C. Richardson, Lockport, N. Y., U. S., 20th February, 1879, for 5 years.

Claim.—1st. A hand truck having a pair of expansible jaws adapted to be opened or closed; 2nd. A hand truck composed of a pair of pivoted levers having expansible jaws, suitable handles and mounted upon one or more wheels; 3rd. The adjustable bearings f f connected with the expansible jaws B B.

No. 9687. Improvements in Wood Stoves.*(Perfectionnements aux poêles à bois.)*

The Ransom Stove Works, Albany (Assignee of Charles A. Hamlin, Greenbush), N. Y., U. S., 20th February, 1879, for 5 years.

Claim.—1st. The air opening g, formed at or near the central line of the fire by the plates F and G, provided with strips H, for sustaining the fuel during combustion; 2nd. The inclined plate G provided with strips H, for forming channel ways beneath the fuel on said plate, whereby the air, admitted into the fire-box through the opening g, is directed upward and forward so as to force the flame from the burning fuel to the front of the fire-box, in such manner that it will reverberate against the top of the stove; 3rd. The combination of the plates F and G and the strips H; 4th. The combination of the door J and ash-guard K, arranged to co-operate as described, for automatically discharging the ashes into the stove.

No. 9688. Improvements on Screws.*(Perfectionnements aux vis.)*

Charles C. Doten, Plymouth, Mass., U. S., 20th February, 1879, for 5 years.

Claim.—A screw having, on the under side of the head, grooves or cutting flanges arranged to form a seat for the screw-head, by the turning of the screw in driving it home, the said flanges, extending from the barrel or smooth portion of the screw to the top periphery or rim of the screw head, and being largest at the bottom and gradually decreasing to the top where they disappear.

No. 9689. Improvements on Fire Escapes.*(Perfectionnements aux sauteurs d'incendie.)*

Edward M. Ball and Daniel F. Gallaher, Stanstead, Que., 20th February, 1879, for 5 years.

Claim.—1st. The spool C connected with the spring E by gear wheels operating within, and combined with the case A and cap B; 2nd. The spool C, in combination with the governor consisting of the weights a a, arms i i, blocks or heads j j, inwardly projecting elongations l l, connecting block d, spring f, pivots h h, pins g k, friction strap m and inwardly projecting portion of the cap B; 3rd. The spring E, gear wheel v, double gear wheel D, pinion w, acting in combination with the spool C and governor, also with the cap B, case A and eye e; 4th. The use of a spring E combined with, and connected by the gears v D and w to the spool C, for rewinding the rope when unwound; 5th. The use of a governor for regulating the speed of the spool C of a fire escape.

No. 9690. Improvements in Blacking Brushes.*(Perfectionnements aux brosses à soulier.)*

Henry B. Perham, New-Hamburg, Ont., 25th February, 1879, for 5 years.

Claim.—A blacking brush having the hard bristles A separated from the soft bristles B, by a space C made to receive the blacking box D, in combination with the polishing brush E, all secured together by the rubber band F.

No. 9691. Improvements in the Manufacture of Boots. *(Perfectionnements dans la fabrication des bottes.)*

Honoré Léger, Ottawa, Ont., 25th February, 1879, for 5 years.

Claim.—A boot upper, made of one continuous piece, with the straps d e and f.

No. 9692. Improvements on Scoops.*(Perfectionnements aux pelles à main.)*

Isaac Pierce, Alma, Mich., U. S., 25th February, 1879, for 5 years.

Claim.—A shovel or scoop made of wood veneer, bent from one piece so as to form the blade with upturned sides extending around the upturned head.

No. 9693. Machine for Rolling Logs.*(Machine à rouler les pièces de bois.)*

Temple Emery, Pestigo, Wis., U. S., 25th February, 1879, (Extension of Patent No. 3153), for 5 years.

No. 9694. Improvements in Rotary Churns.*(Perfectionnements aux barattes rotatoires.)*

Lafayette Whitney, Muncie, Ind., U. S., 25th February, 1879, for 5 years.

Claim.—1st. The improved compound extension dasher shaft consisting of the shaft N, the sleeve J provided with slots m m and coupling H, the pin L and the spring K; 2nd. In combination with the compound dasher shaft, the dasher wings r r, r₂ r₃ arranged and adapted to be operated in a churn box; 3rd. In combination with the compound dasher shaft, the dashers r r, r₂ r₃, the box P and the frame A A T B provided with gear mechanism.

No. 9695. Improvements on Ventilating Apparatus. *(Perfectionnements aux appareils d'aération.)*

Francis L. Norton, New-York, U. S., 25th February, 1879, for 5 years.

Claim.—1st. The reciprocating bell or receiver, actuated by any suitable mechanism, and connected with piping to be extended to one or more apart-