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INVENTIONS PATENTED.

No. 9349. Improvements on Sash Holders.
(Perfectionnements aux arrêt-croisées.)

John Grant and John H. Beaumont, Gananoque, Ont., 18th November, 1878, for 5 years.

Claim.—1st. The bracket C, having slot and provided with thumb screw D passing through the slot. 2nd. The combination of the bracket C, having slot and thumb screw D, with the locking bar E.

No. 9350. Improvements on Sleighs.
(Perfectionnements aux traîneaux.)

Thomas Quickfall, Floradale, Ont., 18th November, 1878, for 15 years

Claim.—1st. A sled or sleigh having the raves C forward of the front knees B bent downwardly to runners A, foreshortened at the nose end to meet the same. 2nd. The king bolt I constructed with a spherical head socketed in a recess in the sand bar P and held to have pivotal motion therein by the plate J, for securing the bolster J.

No. 9351. Method of Generating Carbonic Acid Gas in Fire Extinguishers.
(Méthode de production du gaz acide carbonique dans les extincteurs d'incendie.)

Joseph W. Connelly Pittsburgh, Pa., U. S., 19th November, 1878, for 5 years.

Claim.—1st. The combination of granulated bicarbonate of soda and porous sulphate of alumina free from water of crystallization. 2nd. The combination of granulated bicarbonate of soda, porous sulphate of alumina, water and steam.

No. 9352. Improvements in Chemical Fire Extinguishers.
(Perfectionnements dans les extincteurs chimiques d'incendie.)

Thomas E. Connelly, Pittsburgh, Pa., U. S., 19th November, 1878, for 5 years.

Claim.—1st. In combination with a receiver or generating chamber a diaphragm or receiving plate, either perforated or movable, within the chamber, so as to form an opening or openings through or past the same whereby its contents can be discharged into or mixed with the liquid contents of the receiver or generating chamber. 2nd. In combination with a receiver or generator a receiving plate or diaphragm and a stem or rod passing through the receiver and adapted to operate the plate or diaphragm from the exterior.

No. 9353. Improvements in Boot and Shoe Heels.
(Perfectionnements dans les talons des chaussures.)

Frederick Richardson, Providence, R.I. U. S. 19th November, 1878, for 5 years.

Claim.—1st. In a metallic heel, the combination with the shell d arranged to receive a renewable tap of the base plate e provided with the holes f f and the screw boss h arranged to secure the heel shell to the boot or shoe and the tap to the shell. 2nd. In a metallic heel shell arranged to receive a renewable tap, the combination with the shell d of the plate e provided with the screw boss h and holes f f made in one piece. 3rd. In a metallic heel the combination with the heel shell d made in one piece with the plate l of the rim g arranged to support and protect the counter. 4th. In combination with a metallic heel shell provided with the plate e arranged to secure the

shell to the boot or shoe, of the renewable tap l and screw i; 5th. In combination with the heel shell d and plate e, the reversible top arranged with two wearing surfaces and the screw i. 6th. In a reversible heel tap, the combination with the frame n provided with the diaphragm m forming shoulders on the outer side of the frame and the central boss O, of the laterally compressed wooden wearing surface presenting the end of the grain; 7th. The combination with the metallic heel shell made in one piece with the plate e, of the double and reversible heel tap l filled with laterally compressed wood. 8th. A reversible heel tap arranged to regulate the height of the heel; 9th. The combination with the heel shell d provided with the plate e, of a reversible heel tap provided with a rim to rest against the lower edge of the shell and arranged to be secured to the same when the two sides of the tap are of different thicknesses and the heel can be raised or lowered by reversing the tap. 10th. A boot or shoe heel extending upward to support the counter and downward to receive a renewable tap made in one piece of metal with a plate arranged to secure the heel to the boot or shoe and also to secure the tap to the heel.

No. 9354. Machine for Measuring and Weighing Skins.
(Machine pour mesurer et peser les peaux.)

David T. Winter and Charles E. Teague, Peabody, Mass., U. S., 19th November, 1878, for 5 years.

Claim.—1st. The combination of the foot treadle, a stop for limiting its downward movement, and lever m, the consequent upward movement of the table the perforated lifting table B and its guide rollers and the adjustable upper table D, the table being closely perforated. 2nd. The lower table B provided with guide tracks or ways t. In combination with the treadle and with the compound levers or hazy tongs e s n n and weights s, s, s. 3rd. The suspended perforated table D, in combination with its supporting levers d d d d d, suspended rod or axis d and hank s m. 4th. The combination of the upper table D, its described system of supporting levers, the lever M, registering index or pointer and its down pulling spring m, 5th. In combination of the system of long thin pins pinned closely together, the table B having the described system of countersunk holes, the countersinks merging nearly or quite into each other and the suspended table D adjustably hung and balanced on the compound system of levers d d d d d, 6th. In combination with the table D hung and balanced horizontally and with the hangers m, a double scale one for size and one for weight, and a single indicator for both scales, and whereby without any change or adjustments of the mechanism the skins, after being singly measured may be weighed in lots by the same machine, and the weight of such lots indicated by the same pointer or index; 7th. The combination of the following parts, namely: the under table B, its weighted levers foot treadle and stop y the upper suspended table D and its hangers m and levers d d d d d, the system of closely placed long pins, lever M, the single registering index pointer and the compound scale.

No. 9355. Hair Shedder. *(Etrille.)*

John H. Fenton, Indianapolis, Ind., U. S., 19th November, 1878, for 5 years

Claim.—A hair shedder made of india rubber, having corrugations or uneven edges.

No. 9356. Improvement on Steam Radiators.
(Perfectionnement aux calorifères rayonnants.)

Harvey E. Light, Rochester, N.Y., U. S., 19th November, 1878, for 5 years.

Claim.—1st. The pipes A A and ends At At forming circuits, constructed with the enlarged openings or spaces p p at the front for the purpose of inserting nipples and allowing the use of ordinary pipe tongs for operating the nipples without throwing the radiator too far apart. 2nd. The pockets a a and diaphragms b b located at the front end of the radiators, with right and left nipples c c connecting the radiators on alternate sides of the diaphragms and the enlarged openings or spaces p p at the ends of the radiators; 3rd. In pipe radiators, the combination with the pipes A A of the quadrangular or segment flanges, provided with the bevelled shoulders r r resting one upon another. 4th. A series of radiators each consisting of a complete pipe circuit provided with pockets and diaphragms forming water traps at one end connected by right and left nipples on opposite sides of the diaphragms and the flanges of the several radiators interlocking or resting upon each other to prevent displacement of any one of the radiators. 5th. A steam radiator section, consisting of a complete circuit constructed with the depressed pocket a in the lower pipe, with a single diaphragm or wing b extending from the top of the pipe downward to the level of, or below the bottom of the steam passage.