

**No. 9224. Improvements on Accoustic Telephones.** (*Perfectionnements aux téléphones acoustiques.*)

James R. Holcomb, York, Ohio, U.S., 14th October, 1878, for 5 years.

*Claim.*—1st. The mouthpiece having a flaring opening, and conveying to the lower end in open relation to, and in combination with, the recess diaphragm chamber and line, 2nd. The recess H, and mouthpieces arranged in combination with the diaphragm chamber I and line.

**No. 9225. Boot and Shoe Sole Press.** (*Presse à semelles de chaussures.*)

Thomas J. Gifford and Thomas H. Gifford, Salem, Mass., U.S., 14th October, 1878, for 5 years.

*Claim.*—1st. An apparatus for pressing the soles of shoes against the uppers, composed essentially of an elastic or yielding diaphragm forming a support for the sole, a water or air space under said diaphragm and suitable devices for supporting the last and upper against pressure directed against or upon the sole; 2nd. The combination of the elastic or yielding diaphragm E, the bed F, the space P and suitable clamping devices L L'; 3rd. The elastic or yielding diaphragm E provided with the elastic bed F having the stuff; 4th. The base A having the space B, the diaphragm E, the block F and the inlet and outlet pipe, 5th. The combination with the diaphragm E and means for imparting pressure thereto, the independently adjustable clamps L L', 6th. The clamp L combined with the pivoted upwardly im-  
peded lever m and stop adapted to limit the upward movement of the lever, 7th. The combination of the clamp L, lever m, stop s and wedge w, 8th. The combination of the clamp L, the movable block m; and the lever m, 9th. The combination of the clamp L, the arm v and the slotted stand-  
ard n.

**No. 9226. Improvements on Lumber Wagons.** (*Perfectionnements aux wagons à bois.*)

Joseph Appieby, Palmerston, Ont., 14th October, 1878, for 10 years.

*Claim.*—The equalizer D, and the mode in which it is attached to the axle by chains G.

**No. 9227. Improvements in Vehicle Wheels.** (*Perfectionnement dans les roues des voitures.*)

John B. Armstrong, Guelph, Ont., 14th October, 1878, for 5 years.

*Claim.*—1st. The tire provided with the V-shaped ridge on the under and outer edge, and having the edges outwardly rounding, 2nd. The tire B, with ridge 1, in combination with the felloe A provided with corresponding recess or face to receive and retain said ridge.

**No. 9228. Machine for Working Sheet Metal.** (*Machine pour travailler les feuilles métalliques.*)

John F. Ross, Toronto, Ont., 14th October, 1878, for 5 years.

*Claim.*—1st. A rotary rolling head constructed in two sections, which sections are arranged to be moved laterally in opposite directions, for the purpose of enabling their working faces to be moved towards each other in action, 2nd. The rolling head D with projecting collar D' and blade I, in combination with the head E, the working faces of which head are arranged to close upon the blade I, in working from the contact of the collar D' with the bevelled faces c c'. 3rd. The rolling head E with oppositely movable working sections mounted on a shaft, whose bearings will permit the distance between the rolling heads to be varied as desired; 4th. In rotary heads for sheet metal working, the combination of two rotary heads, one of which is provided with a projecting blade and the other constructed in sections, so arranged that as the heads are forced together, the working faces of said sections will move towards each other on each side of said blade; 5th. The shaft O with pin L and spring J, in combination with the head section E, with slot L', 6th. The combination of the head section E, and set screw M, with the head section E', with slot M', 7th. The combination of the adjustable swinging form G, with the rolling heads D and E.

**No. 9229. Improvements in Brick Kilns.** (*Perfectionnements dans les fours à brique.*)

William H. Brush, Buffalo, N.Y., U.S., 14th October, 1878, for 5 years.

*Claim.*—1st. The combination with the arch of a brick kiln, of the grates C C arranged within the arch near the ends thereof, and an intermediate fuel space C' arranged below the plane of the grates C C, and made accessible from the outside by the means described, so that the combustion of the fuel in the space C' can be regulated, either by means of air currents admitted to the fires upon the grates C C or independent of the grate fires, 2nd. The combination with the grates C C and intermediate fuel space C' arranged below the plane of the grates C C of the hinged aprons E arranged under the rear portion of the grates; 3rd. The combination with the grates C C and intermediate fuel space C', of the hinged apron E and the fire doors G provided with openings g and slotted deflecting plates H.

**No. 9230. Perforated Wrapping Paper.** (*Paper à enveloppe percé.*)

Seth Wheeler, Albany, N.Y., U.S., 14th October, 1878, for 5 years.

*Claim.*—Printed and perforated wrapping paper wound in continuous length to a roll form.

**No. 9231. Improvements on Coffee Pots.** (*Perfectionnements aux cafetières.*)

Armstrong B. Place, Denver, Col., U.S., 14th October, 1878, for 15 years.

*Claim.*—1st. The vessel B, having the conical bottom forming the chamber a, the central tube f, the suit sheet metal upper and lower portions b b', and perforated intermediate portion or belt b', in combination with a strainer or coffee holder and a pot, kettle or boiler; 2nd. The perforated vessel cup or coffee holder C, having the perforated tube h and flange i, in combination with the vessel B, and its tube f and flange j, 3rd. The combination of the perforated cup or vessel C, the vessel B having the trough l formed by the conical bottom, and the portion b' of the sides and the coffee pot or boiler A.

**No. 9232. Improvements on Egg Beaters.** (*Perfectionnements aux batteurs d'œufs.*)

Alonzo Forrest, Belleville, Ont., 14th October, 1878, for 5 years.

*Claim.*—The combination of the tube A, handle B, piston C, stopper D and holes F.

**No. 9233. Improvements on Saw Sets.** (*Perfectionnements aux fers à contourner les scies.*)

George W. Bugbee, Cincinnati, Ohio, U.S., 14th October, 1878, for 5 years.

*Claim.*—1st. The combination of the hammer beive, the cam, the stud through which the cam acts on the beive, and the screw for adjusting the stud; 2nd. The combination of the hammer laterally adjustable on its fulcrum pin, and the temper screws for maintaining the hammer in position after adjustment; 3rd. The combination of the feed lever constructed with two oppositely projecting arms, the cam acting on one of said arms, the set screw in the other arm for regulating the feed, the reacting spring, and the pawl adjustable in, or about the line of feed; 4th. The combination of the adjustable lever feed arm, the pawl, the adjustable pivot-pin thereof passing through a slot in said arm, and the temper screw bearing on said pivot pin

**No. 9234. Improvements on Barrel Stands.** (*Perfectionnements aux chantiers à futailles.*)

James Kirk, Stockport, Eng., 14th October, 1878, for 5 years.

*Claim.*—1st. The construction of a cask stand, so that the cask and stand may be tilted bodily together, whether the stand is formed with rockers or with a straight bottom; 2nd. The application to such cask stand of a diagonal self-acting sliding prop (or props) constructed as described; 3rd. The application to such cask stand of a self-acting rack and sliding catch or prop.

**No. 9235. Improvements on Feather Renovators.** (*Perfectionnements aux appareils à rafraîchir la plume.*)

Isabella F. Cowles, Findlay, Ohio, U.S., 14th October, 1878, for 5 years.

*Claim.*—1st. A feather renovator in which the steam passes through the steam chamber, prior to its admission to the steaming or feather chamber, 2nd. The steaming or feather chamber I provided with the doors Q Q, hinged perforated screens S S and outlet pipe U having valve V; 3rd. The steaming or feather chamber I provided with the corrugations K and the door H; 4th. In combination with the feather-chamber I, the doors Q Q, and screens S S provided with pockets Z; 5th. A feather-chamber, the shell of which is composed of the hinged sections A and B, the removable agitator N O, and the removable semi-cylindrical shell C; 6th. The steam chamber F provided with the doors G G; 7th. The steam chamber F provided with the inlet T and the perforated opening L having slide M, in combination with the feather chamber I having corrugations K, doors P H and Q Q, perforated screens R and S S, outlet and valve U V and the agitators N O.

**No. 9236. Improvements in Portable Fences.** (*Perfectionnements dans les clôtures portatives.*)

John Shuttleworth, Weston, Ont., 14th October, 1878, for 5 years.

*Claim.*—A portable self-supporting reversible fence constructed of panels A, which panels are constructed and arranged to lock one with the other

**No. 9237. Process for Curing Hops.** (*Procédé pour apprêter le houblon.*)

Charles B. Terry, Waterville, N.Y., U.S., 14th October, 1878, for 5 years.

*Claim.*—Subjecting hops to the action of the cold fumes of sulphur in their freshly picked cold state and afterward drying them by heated air

**No. 9238. Machine for Planing Wood.** (*Machine à raboter le bois.*)

William H. Doane, Cincinnati, Ohio, U.S., 14th October, 1878, for 5 years.

*Claim.*—1st. The frame or stand, the sides and ends thereof being composed of a single piece of casting, and slots being formed in the sides for the ways or guides of the table arranged and moving between such sides, 2nd. The combination of the connected cast housings or sides of the frame provided with slots, the table arranged and moving between such housings and the detachable ways or guides fixed in such slots, 3rd. The combination of the side or housing of the frame having a slot, the detachable way or guide inserted in said slot, and set screws to fix the guide in the slot, 4th. The combination of the side or housing having a slot, the detachable way or guide inserted in said slot, set screws to fix the guide in the slot, and backing screws to bear against the back of the guide, 5th. The combination of the side or housing of the frame having a slot, the detachable way or guide inserted in said slot, set screws to fix the guide in the slot, a plate to cover the guide, and backing screws to bear against the back of the guide.

**No. 9239. Improvements in Copying Ink.** (*Perfectionnements à l'encre communicative.*)

Lars L. G. Sjöström, Sherbrooke, Que., 14th October, 1878, for 5 years.

*Claim.*—In any of the colours mentioned in combination with the proportions of gum arabicum and glycerine.

**No. 9240. Improvements on Fence Posts.** (*Perfectionnements aux pieux des clôtures.*)

Robert E. Stephens, Toronto, Ont., 14th October, 1878, for 5 years.

*Claim.*—1st. The post A, strut B and horizontal cross-bar D, framed loosely to intersect rectangularly and secured immovably at their intersection by diagonally forcing and nailing the upper end of the strut to the post, 2nd. A fence post composed of the post A, strut B and horizontal bar D framed together, whereby the bar D crosses the post A and strut B laterally, the ends projecting from the intersections as shown.