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## INVENTIONS PATENTED.

### No. 6214. Saw-gummer. (*Machine à affûter les scies.*)

Joseph M. Smith, Rochester, N. Y., U. S., 16th June, 1876, for 5 years.

*Claim.*—1st. The combination with the carriage E, and screw L, of the coiled spring B, resting at one end against a shoulder of the main frame, and connected at the other with the screw by means of a nut adjustable up or down on said screw, whereby the spring may be compressed a greater or less degree to vary the range of motion or the feeding pressure of the milling tool; 2nd. The combination with the screw L, and spring B, of the nut p, made adjustable upon the screw for the purpose of compressing the spring, and the hand wheel u, for releasing the said pressure; 3rd. The combination with the screw L, and spring B, of the clamp nut p, s, hand wheels t, u, and adjusting nuts w, w; 4th. The combination with the rod C, pivoted to the main frame and adjustable to different positions on the pivot of the rest D, provided with the slit a, to receive the saw and adjustable vertically upon the rod by means of the set screw d; 5th. The combination with the carriage E, and milling tool, G of the gauge K, projecting backward over the burr and resting against the point of the tooth to form a gauge to the cut of the burr; 6th. The insertable cutters i, i, constructed of diamond shape in cross section with opposite cutting edges whereby the cutters may be reversed; 7th. The combination with the milling tool G, constructed with grooves, and with insertable cutters i, i, fitting in the grooves of the shouldered flanges or rim M, M, clamping the cutters in place.

### No. 6215. Improvements on Volta-electric Appliances.

(*Perfectionnements aux Appareils électro-voltaiques.*)

John E. Hetherington, Cincinnati, Ohio, U. S., (Assignee of Isaac L. Pulvermacher), 16th June, 1876, for 5 years.

*Claim.*—1st. The copper plate forming the negative element constructed with prongs A, A, slots a, a, and tongue B, adapted to be folded or rolled into tubular form; 2nd. The zinc plate E, forming the positive element constructed and perforated as represented wrapped with thread or other suitable fibrous material or tissue as an absorbent for the exciting fluid and adapted to be folded or rolled so as to be inserted into the copper element; 3rd. The combination of a zinc plate, provided with nicks c, c, to receive and hold thread, with a thread wound spirally thereon, and fastened by swaging or punching into the said nicks; 4th. The combination of the zinc plate with the copper plate to form an element for medico-electric purposes; 5th. The modified arrangement of copper strips or plates A, A, slitted longitudinally and the parts between the slits bent outward to form pockets to receive the zinc B, B, in combination with the said zincs to form a voltaic element or link.

### No. 6216. Method of Manufacturing Gas for Heating and Illuminating Purposes.

(*Méthode de fabrication du gaz pour l'éclairage et le chauffage.*)

Henry Bray, London, Ont., 16th June, 1876, for 5 years.

*Claim.*—1st. The combination of tanks A, B, pipes C, E, funnel injector D, syphon F, and conducting pipe G; 2nd. The combination with the above, the retorts H, I, J, connecting pipes K, and L, and exit pipe M; 3rd. The method of generating pure gas by the combination of fluid excreta, with hydro-carbon.

### No. 6217. Improvements in the Preparation of Hams.

(*Perfectionnements dans la préparation des jambons.*)

Alden B. Richardson, Dover, Del., U. S., 16th June, 1876, for 5 years.

*Claim.*—1st. The method of preparing hams by removing the bone, packing the boned ham into a tightly fitting hermetically sealed can, and cooking the same, whereby the bone cavity is closed and the ham rendered solid;

2nd. A whole, boneless, solid ham put up in a specially constructed hermetically sealed can.

### No. 6218. Dust Preventer and Vapour Exhauster for Mill Stones.

(*Garde-poussière pour les meules de moulin.*)

Frederick A. Howland, Lambton Mills, Ont., 16th June 1876, for 5 years.

*Claim.*—In combination with the stone casing A, provided with an opening a, in the sheet metal box B, provided with an opening in the lower side corresponding to the hole cut in casing with tubular extension C, and fitted with the air valve G, and connected to the exhaust fan F, and general exhaust tube E, by the thin metal tube D.

### No. 6219. Door-holder. (*Arrête-porte.*)

Hugh McDiarmid, Toronto, Ont., 16th June, 1876, for 5 years.

*Claim.*—The combination of a self acting holder in a box with a stop attached to the box.

### No. 6220. Machine for Amalgamating Ores.

(*Machine à amalgamer les minerais.*)

Louis Carvell, Hampton, N. B., (Assignee of Thomas Walker, and Joseph W. Bancroft), 16th June, 1876, for 5 years.

*Claim.*—1st. An amalgamating retort combined with a furnace and having a movable valve V, for supporting a charge of ore while it is being subjected to the vapour of mercury, and for discharging the ore; 2nd. The cup-shaped valve V, within the retort in combination with a pipe z, through which mercury may be introduced into the receptacle of the valve V; 3rd. The combination in the retort of a tight fitting ore supporting Valve V, with valves O, and o, for supporting the ore without obstructing the outward passage of the vapour of mercury; 4th. The combination in the retort of the valves V, and X, and a condenser E.

### No. 6221. Improvements on Skates.

(*Perfectionnements aux patins.*)

James A. Whelpley, Greenwich, and George E. Buteaux and Alfred B. Sheraton, Saint John, N. B., 21st June, 1876, for 5 years.

*Claim.*—1st. The combination of the lug tightener F, the dog D, and the right and left hand threaded nut C; 2nd. The device consisting of the piece c, and key d, for adjusting the skate transversely on the boot; 3rd. The heel dog formed with the brace e; 4th. The frame E, having raised bars at either end in combination with the sole plate B, and lugs b, b; 5th. The use of the right and left hand threaded nut when applied to a skate in the direction of its length and arranged for clamping or operating the side clamps and heel dog simultaneously; 6th. The application of the aforesaid invention to all description of skates whether for the ice or formed with rollers for floor or parlour use.

### No. 6222. Improvements on Breech loading Cannons.

(*Perfectionnements aux canons chargeant par la culasse.*)

Joseph R. N. Owen, Hamilton, Nev., U. S., 21st June, 1876, for 5 years.

*Claim.*—1st. The cannon A, provided with the key chamber B, at the base of its bore or powder chamber, and having the key slot or passage C, leading from said chamber through the casable of the gun in combination with the breech block F, with its stem E, and lever handle g; 2nd. The cannon A, provided with the key chamber B, and key shot or passage C, when the rear faces a, a, of the key chamber are constructed on a spiral or incline in combination with the breech or head block F, with its corresponding spirally arranged or inclined rear faces f.

### No. 6223. Improvements on Rein-holders.

(*Perfectionnements aux accroche-guides.*)

George A. Shaw, Toronto, Ont., 21st June, 1876, for 5 years.

*Claim.*—1st. The spring radial arm D, mounted on the stud pin c, or its equivalent in combination with the angularly placed flange E, arranged and operating in a fixed or portable rein holder or buckle.

### No. 6224. Mordant for Dyeing Cotton and Woollen Goods.

(*Mordant pour teindre les étoffes de laine et de coton.*)

Frederick J. Bird, Stroud, Eng., 21st June, 1876, for 5 years.

*Claim.*—The composition of gall, nuts, tannin, alum, tin and soda.