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INVENTIONS PATENTED.

No. 7040. Improvements on Drawing Instruments. (*Perfectionnements aux instruments de dessin.*)

John R. Peel, London, Ont., 2nd February, 1877, for 5 years.

Claim.—1st. A series of bars of hollow metal *a b c d* connected by joints of fluted steel *B B* and corresponding sockets *E*, 2nd. The screw pencil point *D* in combination with a pair of compasses; 3rd. The hollow bars *a b c d*, fluted steel joints *B B* and sockets *E*, in combination with a pen *C*, pencil *D* and points *A A*.

No. 7041. Set Gear for Circular Saw Mills.

(*Engrenage de moulins à scies circulaires*)

Hector Gawley, Midstone, Ont., 2nd February, 1877, for 5 years.

Claim.—The friction wheel *A*, levers *D E* and *f*, spring *G* or, in its stead, a weight, the whole forming a correct and simple set gear for saw mills.

No. 7042. Improvements on Bale Ties.

(*Perfectionnements aux cales de ballots*)

Edwin S. Lenox, New York, U. S. (Assignee of David H. Mathews), 9th February, 1877, for 5 years.

Claim.—1st. A double strand hook *C* having a substantial continuity with the metal strip or strand forming the body *a* said tie, and capable of engaging with a loop on the opposite end of the same, and brace *D* intercutting with said hook at a point above the base *X* of the same, 2nd. A hook *C* having a substantial continuity with the metal strip or strand forming the body of tie, and a brace *D* continuous with said hook with its termination *z* extended forward of the same when combined to operate with the connecting and opposite end of the tie; 3rd. A tie having at one end a loop *E* and at the opposite end a hook *C* and brace *D* made continuous with said hook with its rear end connecting with said hook above the base *X* of the same, and its forward end *z* extended from said hook.

No. 7043. Improvements in the Application of Pedal Power.

(*Perfectionnements dans l'application de la force du pied.*)

James Dyer, Norwood, Ont., 9th February, 1877, for 5 years.

Claim.—The combination of the levers *H C D E* so as to exert upon the double axle a reciprocating motion in which the horizontal pressure of the foot, as well as its vertical pressure, is utilized.

No. 7044. Improvements in the Construction of Chairs.

(*Perfectionnements dans la fabrication des chaises.*)

Joseph Tees, Montreal, Que., (Assignee of Jacob Hess), 9th February, 1877, for 5 years.

Claim.—1st. A slat of wood, metal, &c., bent so as to form a continuous section of the seat and back of a chair. 2nd. A chair having its seat and back formed in one of slats bent to the proper curves and secured at both ends.

No. 7045. Improvements in Blinds and Double Windows.

(*Perfectionnements dans les persiennes et les double-croisées.*)

Hiram P. Smith, St. Catharines, Ont., 9th February, 1877, for 5 years.

Claim.—The frames *D* and *E* and the frame *A* constructed so as to receive the window frame *D* for winter use as a double window or the frame *C* for summer use as a blind containing slats, &c.

No. 7046. Improvements on Toe Protectors.

(*Perfectionnements aux carres de chaussures.*)

Thomas Bell and Samuel Bell, (Assignees of John Stephens), Montreal, Que., 9th February, 1877, for 5 years.

Claim.—1st. The narrow slip of solid leather *D*, grooved or cut out to about half its thickness, more or less, and having the outer edge intact and of full thickness hereafter moulded to fit the upper at the toe which lies embedded in and protected by the piece *D*; 2nd. The combination of the piece *D* made in form and manner described with the half slip sole *C* (in the case of a double soled boot or shoe) and with the outer sole *B* and upper *A*.

No. 7047. Improvements in Lumber Dryers.

(*Perfectionnements dans les sécheuses à bois.*)

George W. Read (Assignee of Philipp Pfeffer), New York, U. S., 9th February, 1877, for 5 years.

Claim.—1st. The press plates adapted to be heated and having vents opening upon their opposing faces for the escape of the vaporized moisture of the wood. 2nd. The hollow press plates adapted to be heated by steam, and having vents opening upon their opposing faces for the escape of the vaporized moisture of the wood. 3rd. The combination of the heated press plates with face or lining plates having perforations and connecting channels for the escape of the vaporized moisture of the wood. 4th. The combination of hollow steam heated press plates *A* and face or lining plates *B*, having perforations and connecting channels between press plate and lining for the escape of the vaporized moisture of the wood.

No. 7048. Improvements on Road Scrapers.

(*Perfectionnements aux charrues de chemins.*)

Jesse Stubbs, Mount Pleasant, Iowa, U. S., 9th February, 1877, for 15 years.

Claim.—1st. A road scraper hinged to levers mounted on axle and wheels connecting the draft pole to the forward of the scraper box by a changeable bearing or connection. 2nd. The segment slotted plates *G*, box *D*, levers *C*, bar *H*, catch *E*, axle *A* and wheels *B* arranged to operate with the bifurcated draft bar *F* having studs *g*.

No. 7049. Improvements in Writing Tablets.

(*Perfectionnements aux tablettes de factures.*)

John H. Hodder, Aurora, Ill., U. S., 9th February, 1877, for 5 years.

Claim.—A writing tablet or memorandum block provided with a cover or outer leaf composed of absorbent or blotting paper.

No. 7050. Improvements on Harvesting Machines.

(*Perfectionnements aux machines à moissonner.*)

George Sweet, Dansville, N. Y. U. S. and John Watson, Ayr, Ont., 9th February, 1877, for 5 years.

Claim.—The combination with the latch or projection *K* on the inner ends of the turning rake heads of the rear treading dog *S* arranged in relation with the delivery end or edge of the platform *A* of the machine.

No. 7051. Improvements on Scale Tang Cutlery.

(*Perfectionnements dans la coutellerie à soie plate.*)

William Eccleston, New York, U. S., 9th February, 1877, for 5 years.

Claim.—Constructing the blade with the tang narrower than the scales and with a cavity formed on the inner surface of one or both, the scales to correspond to the said tang.

No. 7052. Process for Making Iron and Steel.

(*Procédé pour faire le fer et l'acier.*)

Jarvis J. Green, Pontiac, Mich., U. S., 9th February, 1877, for 5 years.

Claim.—1st. Fusing pig iron of specified brands with flux and amalgamating therewith magnetic iron ore black oxide of manganese, carbonate of soda, chalk, chlorine and sodium. 2nd. The employment of the foregoing named chemical ingredients in the proportions set forth.