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CONTENTS.

INVENTIONS PATENTED.

No. 5967. Improvements on Harness.

(Perfectionnements aux harnais.)

Henry C. Mahurin and Levi W. Sanborn, Auburn, Me., U. S., (Assignees of George C. Eastman), 21st April, 1876, for 5 years.

Claim.—The shaft supporter provided with the end eyes *a*, *b*, the intermediate clasps *c*, *d*, and the stud *e*, arranged with it.

No. 5968. Type Setting Machine.

(Machine à poser les caractères.)

Samuel W. Green, (Assignee of William A. Loceuz), New York, U. S., 21st April, 1876, for 5 years.

Claim.—1st. In combination with the type case, the plunger for ejecting the type made thicker than the thickness of the thinner type to be ejected and tapered at its end; 2nd. The combination of a type case ejector and stop, the improved stop consisting of the revolving roller E, for the purpose of arresting the motion of the type when ejected, 3rd. In combination with the grooved back plate, the glass front plate made in sections, each removable independently, 4th. In combination with the type case the removable guide bar H, secured by thumb screws or an analogous device, 5th. In combination with a back plate having grooves of varying depths the type arranged so that the heavier type shall travel through the longer grooves, and the lighter through the shorter ones; 6th. The combination of the pendulum suspender and the adjustable spring for the purpose of controlling and making sensitive the vibrations of the gate as the varying thicknesses of type past through it.

No. 5969. Seeder Attachment to Horse Rakes.

(Ajustage de semoirs aux râteaux à cheval.)

John Watson, Ayr, Ont., 21st April, 1876, for 5 years.

Claim.—A seed distributing box C, supported by arms A, A, removably bolted to the axle B, of the rake, and having a lever C, operated by a corrugated ring R, attached to the wheel to give the desired motion to the pitman H, in the seed box.

No. 5970. Cultivator. *(Cultivateur.)*

George Gillies, (Assignee of Henry Collard) Gananoque, Ont., 24th April 1876 (Extension of Patent No. 1037,) for 5 years.

Claim.—1st. The arrangement of main bars *a a*, formed of square iron the hinges *b*, *b*, ties c, c, braces and draft hooks *d*, *d*, formed of flat iron and fastened together by means of the teeth, 2nd Having two, three or more narrow sections connected by hinges *b*, *b*, 3rd The hinges being so placed on cultivator (having one end long and the other short) as to throw line of joint parallel to line of draft, 4th. The main bars *d*, *d*, being so bent and punched that the marks of the teeth are equidistant from each other; 5th. The oval tapering tennant on tooth *t*, *t*, with the corresponding socket A, and B, 6th. The plate of steel S, S, being placed on lower part of tooth with the edge of steel in front, and 7th, the draft bar *e*, drawn by two hooks the one near each end.

No. 5971. Hanger for Sliding Doors and Gates.

(Ferrure de porte et de barrière en coulisses.)

Leeds A. Cook, North Keppel, Ont., 24th April, 1876, for 5 years.

Claim.—The combination of sliding door with a swinging lever sliding in slot of main post and with a radius bar pivoted centrally to lever and to the main post, to be opened and closed by the parallel motion produced thereby.

No. 5972. Dumb-stove. *(Poële sourd.)*

William Parsons, Orangeville, Ont., 24th April 1876, for 5 years.

Claim.—1st. The placing of the stove pipe A in the upper chamber of the drum B; 2nd. The i ... ion of the hot air gene a g T, flue *d*, *d*, *d*.

No. 5973. Process, Manufacture and Finishing of Starch. *(Procédé, fabrication et parachèvement de l'empois.)*

Alexander S. Mac ... To ... Ont., 24th April 1876, for 5 years.

Claim.—Fragrancing, odorizing ... the ... or starch by the application of essential oils ... or ... by aqueous solution ... either in the process, manufacture, finish, boil ... ages, box ... et cetera.

No. 5974. Milk Tester. *(Galactomètre.)*

Alvin Middaugh, Scio, N. Y., U. S., 21st April 1876, for 5 years.

Claim.—The process of discovering impurities in milk and the excess of water there in, by ... ng a given quantity of standard milk and a given quantity of each ... simply, to be tested, in separate vessels C, C, C, to about 90° Fahrenheit, then coagulating the standard and samples, and finally compressing the coagulated ... unsalted ... the specific heat thus developing the odors of the impurities, and the quantity of curd or whey indicating the water present.

No. 5975. Improvement in Ploughs.

(Perfectionnements dans les charrues.)

George Thomson and John Thomson Woodstock Ont. 24th April, 1876, for 5 years.

Claim.—1st The combination of the mould board *d* with the frame *c*, 2nd The combination of the frame *c* and the anti choker *g* 3rd The combination of the ... skimmer (thereby complete) with the coulter *a*

No. 5976. Coal Ashes Sifter.

(Crible pour les cendres de charbon.)

Thomas C. Jones, Montreal, Que., 24th April, 1876, for 5 years.

Claim.—The cinder-receptacle C, having a cylindrical rectangular or other regular or irregular section mounted on the crank shaft D and consisting of the solid or perforated heads C_1 surrounded or covered by woven wire or perforated metal plate and provided with the doors or traps C_2, and C_3, in combination with the box A.

No. 5977. Hose Carriage. *(Voiture a boyaux.)*

Thomas McCabe, Ottawa, Ont., 24th April 1876, for 5 years.

Claim. 1st. A hose carriage having its reel or drum D operated from one of the traction wheels through the medium of a friction wheel E, and a friction pulley G, the latter bearing on the face of the wheel E, and being arranged to move to and from the centre of the same in order to vary the speed of the reel, 2nd. In combination with the frame A, wheels C, and drum or reel D having the wheel X, the friction wheel G and the shafts F O and V, provided with the pinions whereby motion is communicated from the traction wheel to the reel. 3rd. In combination with the shaft F, and the drum or reel D, connected therewith by suitable gearing the friction wheel E, sliding pulley G and screw shaft H arranged to move the pulley 4th In combination with the frame A and the drum or reel D the sliding guide frame or carrier Z, in combination with the double threaded screw F and fork *m* or equivalent devices for moving it to and fro 5th The guide frame or carrier Z provided with the rollers *q* and having one side hinged to swing outward 6th In combination with the wheel E the shaft F provided with one or more friction pulleys, and having one end mounted eccentrically in the block *d* having the hand lever *e* 7th In combination with the wheel E and the shaft F provided with the sliding pulleys G, and H, the screw shaft K, provided with the detachable nuts *a*, engaging with the pulleys.

No. 5978. Improvements in Carriage Wheels.

(Perfectionnements aux roues de voitures.)

Samuel Vessot, Joliette, Que., 24th April, 1876, for 5 years.

Résumé.—Le patin *b*, avec ses agrafes *c*, ses clefs *d*, le doublage en bois *e* les garants *f* et les becs *g* aussi la forme du patin avec sa pointe *h*, son pilier *i*, et son doublage en fer *j*, ainsi que le cercle *k*, destiné à lui donner plus de solidité.