No. 6377. Force-Pump. *(Pompe foulante.)*

William Busk, Paisley, Ont., 31st July, 1876, for 5 years.

Claim.—1st. The cylinder C with bottom E, having one or more admission valves *e*, and cover F having four more or less valves *f f f f*; 2nd. The piston G with its lower plate *g*, having four less or more admission ports *h h, h h*, the upper plate *g*¹ with four less or more admission ports *h*¹*h*¹*h*¹*h*¹, valve H and discharge pipe K; 3rd. *In combination with the cylinder C and* piston G, the connecting rod Q, cranked bracket P, socket with pivot T and handle N

No. 6378. Carriage Jack. *(Chèvre à voiture.)*

Jason McLeod and Samuel T. Kempton (Assignees of Albert Churchill), Milton, N. S., 31st July, 1876, for 5 years.

Claim.—The combination of a cogged rod B, working in a cylindrical standard A and operated by cogged lever C attached to such standard by slotted jaws D.

No. 6379. Production of Photo-Ceramic Pictures.

(Production des portraits photo-céramiques.)

Alexander L. Henderson, London, Eng., 31st July, 1876, for 5 years.

Claim.—1st. The production of Intaglios, 2nd. The production of Photo-ceramic pictures.

No. 6380. Process of Preparing Photographic and Plate Printing Paper.

(Procédé pour preparer le papier de photographie et d'impression à la planche.)

Thomas Doney, London, Ont., 31st July, 1876, for 5 years.

Claim.—A photographic or plate printing paper having a lined or stippled surface imparted thereto.

No. 6381. Roller Skate. *(Patin à roulettes.)*

Frederick E. B. Beaumont and Woodford Pilkington, London, Eng., 31st July, 1876, for 5 years.

Claim.—1st. The inclined links E, jointed at one end to the footstand and at the other end to the roller axle, in combination with a caoutchouc or other spring D interposed between the roller axle and the footstand, 2nd. The combination of the caoutchouc block D in a box C, carrying the roller axle F with the inclined links E. 3rd. The caoutchouc block D, held by a frame C¹ and having the roller axle F and pin B¹, on which the links E work bedded therein, 4th. The screw adjustment for regulating the compression of the *caoutchouc spring.*

No. 6382. Improvements on Fences.

(Perfectionnements aux clôtures.)

Mahlon Burtless, Seneca Falls, N. Y., U. S., 31st July, 1876, for 5 years

Claim.—The base B, consisting of the bar *a* and hollow angular feet *b, b*, constructed with the sockets *c c* for receiving the angular stakes *d d.*

No. 6383. Improvements on Lamps.

(Perfectionnements aux lampes.)

William J. Armstrong, Toronto, Ont., 31st July, 1876, for 5 years.

Claim.—A combined barbers lamp and sign having one, two or more illuminated faces fitted with parallel strips of coloured glass or other transparent or semi-transparent material in alternate bands of red, white and blue, arranged in diagonal lines or in any of the usual trade designs

No. 6384. Improvements on Car Brakes.

(Perfectionnements aux freins de wagons.)

Jacob Blanshan, Le Fever Falls, N. Y., U. S., 31st July, 1876, for 5 years.

Claim.—The brakes A connected by rods C with each other, and with the lever H by rods D, chains E, pulleys F and the rods G, in combination with opposite brakes B connected together by rods I, and with the lever H by rods J.

No. 6385. Improvements in Post and Rail Fences.

(Perfectionnements dans les clôtures de pieux et perches.)

Joseph Bagshaw, Reach, Ont., 4th August, 1876, for 5 years.

Claim.—The cutting of notches or gaues in the post C, for the reception of the bevelled rail B, and the bevelling of the same and the mode of securing the rails in position by means of the slat A nailed or secured to the post over the face of the rails.

No. 6386. Improvements on Saw-Mill Machinery.

(Perfectionnements au Mécanisme de Scieries.)

Watson P. Widdifield, Siloam, Ont., 4th August, 1876, for 5 years.

Claim.—1st. The friction wheel E, provided with the parallel driving face E^1 and bevelled driving faces E^2 and E^3, the said driving faces being either a solid part of the one wheel, or formed on two or more separate sections fastened together; 2nd. The friction wheel E, with bevelled friction face E^2, *in combination with the bevelled friction wheel S of the shaft* S^1, 3rd. The combination of the adjustable shaft F^1, lever G, friction wheel F and friction wheel E provided with the friction face E^1, 4th. The combination of the levers J and J^1 suspended at one end by the chains *j j*, cant bars L^1 and L^2, chains *k k* and shaft F^1, provided with adjustable clutch mechanism for elevating the levers simultaneously or independently as desired, 5th. The spring pressure stay L^3 in combination with the cant bar L^1; 6th. The friction wheel E provided with the bevelled friction faces E^2 and E^3, in combination with the friction wheels N and O mounted on the shaft M; 7th. The shaft N arranged with a limited vertical motion and provided with friction wheels N N O placed in such position that either or both may be thrown out of gear with the friction wheel E for the purpose of feeding the carriage forward, backward, or stopping it at any point, 8th. The combination of all the operative and inoperative parts.

No. 6387. Improvements in Ploughs.

(Perfectionnements aux charrues.)

George Wiard and Charles W. Hough, East-Avon, N. Y., U. S., 4th August 1876, for 5 years.

Claim.—1st. The combination with the beam A, provided with lug *b*¹ and recess *a*¹, of the landside B constructed with off set *b*², hook *b* and elliptical *lug a and fastening bolt c*; 2nd. *A plough-handle secured to two supports* $f f^1$ by two bolts *g g*¹ arranged at right angles to each other for preventing the splitting of the handle; 3rd. A mould board cast with the handle supporting arm f^1 and a lateral brace f^2 connecting the upper end of the arm f^1 with the rear end of the mould board; 4th. The handle brace E, constructed in one angular piece flattened at the bent, in combination with a socket *h* arranged on the beam A and having under cut lip L^4. 5th. The combination with the beam A provided with ribs *l l* of the mould board C provided with lug *m* and over lapping ledge *n*, for securing the mould board to the beam, 6th. The combination, with the standard A^1 and brace P of the toe plate O provided with slot *q for receiving* the bolt *r and for facilitating the* casting of the parts in one piece.

No. 6388. Sled shoe *(Patin de traîneau).*

William G. Calkins, Winneconne, Wis., U. S., 4th August, 1876, for 5 years.

Claim.—A sled shoeA cast with chilled sides B B.

No. 6389. Fog Alarm *(Alarme en cas de brume.)*

George Sweanor, Sherbrooke, and Horace R. Sewell, Quebec, Que., 4th August, 1876, for 5 years.

Claim.—1st. An air cylinder B having a piston O and piston rod N operated by winding mechanism giving a fast and slow motion to the piston for intermittently sounding a trumpet or whistle connected to the cylinder 2nd. The combination with a winding drum and wheels of the friction wheel G having an irregular eccentrical periphery and laterally, a cam groove I, the arm J, rock shaft K, lever M, piston rod N and piston O, operating in an air chamber B for sounding a trumpet or whistle attached there to automatically and at intervals.

No. 6390. Reversible Plough.

(Charrue tourne-oreille.)

Myron R. Hubbell, Sweetsburgh, Que., 4th August, 1876, for 5 years

Claim.—1st. The rod E running the length of the beam, with its cranks F I and the slot in the clevis or draught attachment; 2nd. The slotted lever K moved by the mould board brace N and which operates the draught attachment by means of the rod E and cranks F I.

No. 6391. Improvements on Dumping Boxes.

(Perfectionnements aux bottes à bascule.)

Garret Seger, Humberstone, and William Stanton, Port Colborne, Ont., 4th August, 187, for 65 years.

Claim.—The combination of side bars B B and the end rod C.

No. 6392. Force-Pump. *(Pompe foulante.)*

Cyrus Green, Hespeler, Ont., 4th August, 1876, for 5 years.

Claim.—1st. The cylinders A A constructed with the openings *b b*, stationary valve *a*¹, working bucket *a*, 2nd The rocking beam D with centre piece pivoted, 3rd. The combination of the cylinders A A, connection pipes A^2 A^3, discharge pipe cross heads B B, side rods C C, rocking beam D with centre pieces *d*, connecting rods E, E, top bracket F, crank shaft G and winch H; 4th. Operating the device either as a double or a single cylinder pump as may be required 5th. The combination and arrangement of the whole.

No. 6393. Improvements on Car-Couplings.

(Perfectionnements aux attelages de wagons)

William V. Perry, Kokomo, Ind., U. S., 4th August, 1876, for 5 years.

Claim.—1st. The drawhead A provided with the interior transverse ridges *t t*¹ and the tapering head *b*; 2nd. The coupling pin B having concave front curve *x*, straight front edge *c* and convex back curve *z*, the *curves being concentric; 3rd. The combination of the flat bar D and rod K* with the slotted plate F provided with the transverse groove *m*; 4th. The fork G arranged within the draw head A; 5th. A universal coupling *p* in combination with the fork G, shaft *n* and operating devices; 6th. The combination of the arm K with elongated slots, the flattened rod J, universal coupling *p*, shaft *n* and fork G

No. 6394. Sad Iron Holder and Guard.

(Panier porte-fer à repasser le linge.)

Samuel J. Ward, Buffalo, N. Y., U. S., 4th August, 1876, for 5 years

Claim.—1st. The combination with a hinged wire frame of the cloth holders B and protecting shields D attached by the perforations *d*, 2nd The combination with the shields D of the curved and wires C provided with the eyes E, braces F, guard G and the cloth-holder B.