

with the grate A, it base ring B and standards C; 4th. The combination of the supporter D, the trap or hopper F and the automatic or counter balanced valve G with the elevated grate A, or with such and its base ring and supporting standards; 5th. The combination of the auxiliary supporter E with the main supporter D and the elevated grate applied thereto.

No. 6456. Improvements on Weighing Scales.

(*Perfectionnements aux balances.*)

Hosea Willard, Vergennes, Vt., U. S., 17th August, 1876, for 5 years.

Claim.—The main levers A G, intermediate levers K and the adjusting lever W; the forked beam lever N pivoted to the adjusting bar Q, in combination with intermediate levers K; the weight hook pivot S connected adjustably to the beam lever and provided with a shifting screw to set the scale for net or gross weight; the toothed bar a connected to beam lever N, in combination with pinion b, dial d and pointer e.

No. 6457. Improvements on Shoe Hoses.

(*Perfectionnements aux hausses de souliers.*)

Olivier Durocher, Ottawa, Ont., 17th August, 1876, for 5 years.

Claim.—The fly B made in the rear part of the upper (or hose) a and conveyed outside, thus giving a concavity inside to facilitate the putting on of the shoe A; and also the flap D with the strap F sewed to the middle part of the middle seam b, said trap F closing the flap D and being buckled to the buckle E on the inside of the shoe A.

No. 6458. Car-coupling. (*Attelage de wagon.*)

Jacob Singer, Harrisburgh, Pa., U. S., 24th August, 1876, for 5 years.

Claim.—1st. The combination of the draw-head inclined bearing and bar f and a follower having a recess g adapted to said bearing; 2nd. The draw head provided with a central bearing and with a follower adapted thereto, when arranged to permit the link to pass wholly inward upon said bearing, and to be thrust forward by the forward motion of the follower; 3rd. The combination of the draw head, the follower adapted to an inclined bearing and a trigger, all operating to release and retain the pin, to hold the link and permit the latter to pass inward under pressure; 4th. The combination of the draw head, central bearing block d and follower adapted to said block; 5th. The cross bar f, of malleable iron or steel, combined with the draw head; 6th. The cross bar arranged wholly in front of the pin; 7th. The draw head provided with the follower B, and with a receptacle X beneath the latter; 8th. The draw head provided with the follower B, receptacle X and opening y; 9th. The ribs n arranged at the mouth of the follower; 10th. The combination of the draw head and a pin elevating device operated by a transverse shaft J; 11th. The combination of the draw head frame I, shaft J for operating said frame.

No. 6459. Improvements in Cooking Stoves.

(*Perfectionnements aux poêles de cuisine.*)

George W. Johnston, Yarmouth, N. S., 24th August, 1876, for 5 years.

Claim.—1st. The corrugated oven plates A A A; 2nd. The cleaning door B at the back of the stove, giving access to all three lower flues, in combination with cleaning door B, at the front of the stove, in combination with the tapering flues C C and the corrugated oven plates A A A; 3rd. The tapering flues C C in combination with corrugated oven plates A A A, back cleaning door B and deflecting plates D D; 4th. The deflecting plates D D in combination with tapering flues C C and corrugated oven plates A A A; 5th. The general design of the stove and arrangements of its several parts.

No. 6460. Saw Sharpening Machine.

(*Machine à affûter les scies.*)

John A. Miller, Oshkosh, Wis., U. S., 24th August, 1876, for 5 years.

Claim.—1st. The combination of the longitudinal carrier A, transverse carrier B and vertical carrier C; 2nd. The combination of the discs E and E', constructed with slots I and I', J and J'; 3rd. The independent reversible collar W V; 4th. The sliding cam a in combination with the angular or key seated rod c, lifting bar d and adjustable journal plate g; 5th. The spindle C, in combination with bowl S, carrier C and cone S; and nut; 6th. The table T, with adjusting legs K and spindle joint t, and bearing a grooved saw-way G; 7th. The clamping jaws U, operated by double acting screw P; 8th. The toothed friction roller O, with driving lever Q and block Q', and having its shaft R hung on pivot joint f and its friction adjusted by screw R'.

No. 6461. Implement for Weeding Land.

(*Instrument pour sarcler la terre.*)

Daniel N. Ford, Boston, Mass., U. S., 24th August, 1876, for 5 years.

Claim.—The head a, rod c, and their connections d arranged and provided with a socket piece or shank b; the series of teeth e, the head a, rod c, connections d and socket piece or shank b.

No. 6462. Self-feeding Pen. (*Plume-fontaine.*)

John M. Might and Charles W. H. Taylor, Toronto, Ont., 24th August, 1876 for 5 years.

Claim.—A ink reservoir A arranged within a pen-holder made to hold an ordinary nib C, which nib is fed by ink from the said reservoir A, by the pressure of the thumb or finger at G, which forces the ink through the hole O into the said nib C.

No. 6463. Improvements on Smelting Furnaces. (*Perfectionnements aux fourneaux de fusion.*)

John L. Sturdy, Goderich, and John A. May, Kincardine, Ont., 24th August, 1876, for 5 years.

Claim.—1st. The arrangement and combination with a cupola A, of the two furnaces B and flues M and N; 2nd. The arrangement, in combination with a cupola A, of the two outlet passages O P and the two steam boilers E and the steam pipes S discharging longitudinally into the passages P; 3rd. The arrangement, in combination with a cupola A, of the combustion chambers Q and perforated wall R.

No. 6464. Combined Wood and Metal Tap.

(*Robinet en bois et en métal.*)

Edward Carroll, Toronto, Ont., 24th August, 1876, for 5 years.

Claim.—A metallic plug A, having a lip a, in combination with a separate projecting tube B having a recess b cut in it.

No. 6465. Improvements on Straw-cutters.

(*Perfectionnements aux hache-paille.*)

Abemilech Hillman, Guelph, Ont., 24th August, 1876, for 5 years.

Claim.—The roller provided with grooves, or their equivalent, filled with material, and the caps to keep the same in proper place.

List of Patents issued up to 16th Sept., 1876, but not yet Officially published in the Patent Office Record.

No. 6482. L. Smith & R. Booth, Sherbrooke, Que., "Fog Alarm," 30th August, 1876.

No. 6483. T. S. Diston, Philadelphia, Pa., U. S. A., "Rotary Pressure Blower," 30th August, 1876.

No. 6484. M. V. Dodsworth, Parsborong, N. S., "One-Stave Tub," 30th August, 1876.

No. 6485. G. W. Schermernhorn, East-Limington, Me., U. S. A., "Brush Handle," 30th August, 1876.

No. 6486. J. L. Cain, Newcastle, Ont., "Clothes Line Fastener," 30th August, 1876.

No. 6487. H. A. R. Horton & A. P. Hayes, McKinney, Texas, U. S. A., "Fire Lightener," 30th August, 1876.

No. 6488. G. Sweeney, Sherbrooke, Que., & H. R. Sewell, Quebec, Que., "Fog Alarm," 30th August, 1876.

No. 6489. L. R. Howse, (Assignee of B. T. Clark), Philadelphia, Pa., U. S. A., "Meat Hook," 31st August, 1876.

No. 6490. S. Parker, Altoona, Pa., U. S. A., "Riving and Racking Machine," 4th September, 1876.

No. 6491. C. Dion, Chambly Basin, & J. Baylis, Montreal, Que., "Stove," 4th September, 1876.

No. 6492. W. McCormick, Blair, Neb., U. S. A., "Fruit Lifter," 4th September, 1876.

No. 6493. J. H. McMechan, London, Ont., "Over-Shoe," 4th September, 1876.

No. 6494. J. A. Richard, Columbiaville, Mich., U. S. A., "Car-coupling," 4th September, 1876.

No. 6495. T. M. C. Wilson, Venice, Pa., U. S. A., "Washing Machine," 4th September, 1876.

No. 6496. J. N. Tarbox, Hamilton, Ont., "Process of Toughening Glass," 4th September, 1876.

No. 6497. C. C. Walworth, Boston, Mass., U. S. A., "Connection for Steam Heating Apparatus and Pipes for Conducting Steam, Gas or Water," 4th September, 1876.

No. 6498. B. Palmer, S. John, N. B., "Self-lighting Gas Burner," 4th September, 1876.

No. 6499. J. B. Lazier, Port-Perry, Ont., "Cutter and Sleigh Beam and Knee Combined," 4th September, 1876.

No. 6500. R. W. Magee, Woodstock, Ont., "Agricultural Implement for Cultivating the Soil," 4th September, 1876.

No. 6501. M. Schmidt, Hanover, Ont., "Washing Machine," 4th September, 1876.

No. 6502. T. Vezina, Verchères, Que., "Washing Machine," (Extension of No. 1125), 4th September, 1876.

No. 6503. A. A. Wood, Monlins, N. Y., U. S. A., "Auger," 6th September, 1876.

No. 6504. J. Williams, Jarrettown, Pa., U. S. A., (Assignee of J. S. Williams, Riverton, N. J., U. S. A.), "Anchor," 6th September, 1876.