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## RECORD




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### INVENTIONS PATENTED.

#### No. 7802. Improvements in Car Wheels.

(*Perfectionnements dans les roues de wagons.*)

Gordon Elmstie, Toronto, Ont., 30th August, 1877, (Extension of Patent No. 1628), for 5 years.

*Claim.*—The combination of the curved web A, large curved ribs B (extending from the rim C to the hub D) and small curved ribs E.

#### No. 7803. Fanning Mill. (*Tarrare.*)

Thomas Wilson, Richmond Hill, Ont., 31st August, 1877, (Extension of Patent No. 1641), for 5 years.

*Claim.*—The suspending of the two parts of the shoe *jj* by the steel spring straps *kk* and *ll*, the lower part by two vertical steel spring straps *kk* and the upper part by two oblique steel spring straps *ll* on each side of the shoe, also the forming of the combined zinc sieves, arranged parallel and one inch apart or so, near to each other as to allow but a small portion of the wind to pass between them, as shown by *mm*; also the dividing of the shoe into two parts, each part being hung separately by four steel spring straps.

#### No. 7804. Improvements on Plaiting Machines.

(*Perfectionnements aux machines à plisser.*)

Hermann Albrecht, Philadelphia, Pa., U.S., (Assignee of Jacob F Burrow and John Solter), 29th August, 1877, for 5 years.

*Claim.*—The combination of a base, a presser and a reciprocating or vibrating blade, by which fold after fold a fabric may be formed, thrust beneath the said presser, and converted by the latter into plaits; 2nd. The combination of the base, reciprocating or vibrating blade, and a presser constructed to be heated by a hot bar or otherwise, so that the folds thrust beneath the presser may be made into plaits by combined heat and pressure; 3rd. The combination with the base and presser of two blades D and G, and mechanism whereby the said blades are caused to co-operate in the manner described; 4th. The combination of the blades D and G with adjustable stops to determine the extent of their movement; 5th. The combination of the operating levers K K connected to the blade D with the links L L connected to the said levers K K and to the blade G; 6th. The combination of the levers K K, links L and blade G with the adjustable stop M; 7th. The combination of the levers K K, blade D and adjustable stop M; 8th. The presser B having arms e hinged to the base.

#### No. 7805. Combined Trap and Ventilator for Sewers and Drains.

(*Trappe-ventilateur d'égouts et de fossés.*)

François X. Rousseau, Montreal, Que., 29th August, 1877, for 5 years.

*Claim.*—1st. The combination of sewers *d* and *q* with the trap *h* and with the shaft *k*; 2nd. In the trap *h* the combination of the openings *l* and an opening closed by the door *m*, together with door *m*.

#### No. 7806. Improvements on Lamp Collars.

(*Perfectionnements aux cols de lampes.*)

William E. S. Baker, (Assignee of John H. Lewers and Charles Kluitz), Philadelphia, Pa., U.S., 29th August, 1877, for 5 years.

*Claim.*—The combination in with the fixed or supplemental collar of a lamp, of a valve and valve seat struck up in corresponding dies, and provided with the guide G and spring S; the combination of the valves with the cap or covering of a lamp oil feeder or filter thereby making the lamp non-explosive without interfering with the ordinary fixed lamp collar.

#### No. 7807. Improvements on Tube Expanders.

(*Perfectionnements aux dilateurs de tuyaux.*)

John E Minshall, Middleton, N.Y., U.S., 29 h August, 1877, for 5 years.

*Claim.*—1st. In combination with the expending dies I pivoted within the head E, the mandrel B provided with the tapering dimble L fitted into said head, and caused to move longitudinally through the same by means of the nut N; 2nd. The expanding dies I provided with the rearward projecting stud *i*, in combination with the head E having the recesses *e* and *e'* and set screws K; 3rd. In combination with the head E and nut M, the washers N and interposed collar O provided with radially pivoted rollers *o*; 4th. As a means for rotating the head E in the toothed wheel F, the bifurcated lever section G provided with a recess *g* and outer section G' having a reduced threaded end *g'* the pawl H and the spring *h*; 5th. In combination with the head E provided with the recesses *e* and arranged to rotate upon the mandrel B, the cutter head P provided at its inner end with lugs *p* that fit into said recesses, and having upon its outer end cutting teeth *p'*; 6th. In combination with the cutter head P having a threaded periphery, the gauge collar Q fitted upon said threaded periphery; 7th. The described device in which the mandrel A provided with the tapering portion *a* and the threaded portion *a'* the hollow mandrel B having the slotted head B' b and threaded end *b'*, the dogs C, the nut D, the head E provided with the recesses *e* and *e'*, the ratchet wheel F, the lever G G' *g'*, the pawl H, the spring *h*, the expanding jaws I, the set screws K, the nut M, the washer N and the roller collar O.

#### No. 7808. Improvements in Saw Teeth.

(*Perfectionnements dans les dents des scies.*)

Nathan W Spaulding, San Francisco, Cal., U.S., 29th August, 1877, for 5 years.

*Claim.*—1st. The saw tooth A provided with a bonnet-shaped gouge or cutting point *c* the entering point of which is in advance of the side edges, said entering point and side edges forming one continuous curved cutting point; 2nd. The saw tooth A provided with an angular bonnet-shaped gouge or cutting point, which point is flared, upset or expanded in; 3rd. A swage for expanding, flaring, upsetting or sharpening saw teeth, provided with a brace or guide G which projects beyond the end of the swage bar so as to straddle the tooth in advance of the die or counter-sink; 4th. The combination with a swage for expanding, flaring, upsetting or sharpening saw teeth of a centering clamp or holder for preventing lateral displacement by clamping the tooth near its point.

#### No. 7809. Improvements in Pumps.

(*Perfectionnements dans les pompes.*)

Edward Stovel, Guelph, Ont., 29th August, 1877, for 5 years.

*Claim.*—1st. In combination with a pump A, of the solid standard B with projection C and openings D and H; 2nd. In combination with a pump A and standard B of the circular headed handle G with toothed segment *d*; 3rd. In combination with a pump A standard B and handle G of the toothed piston rod I; 4th. The combination of the pump A standard B, toothed piston I, brackets E E F F, friction roller *c* and handle G.

#### No. 7810. Improvements on Brick Kilns.

(*Perfectionnements aux fours à brique.*)

Holland B. Evans, Saint-Charles, Mo. U.S., 29th August, 1877, for 5 years

*Claim.*—The graduated compartments A B C having the flues D E arranged as specified.

#### No. 7811. Improvements on Saw Grinders.

(*Perfectionnements aux remouleurs des scies.*)

Enoch P. Tetrell, Bellefontaine, Ohio, U.S., 29th August, 1877, for 5 years

*Claim.*—The combination of shafts F J and L with gear wheels G I K and K' and grinding wheel M, all journaled in sliding sash D.

#### No. 7812. Machine for Cleaning and Separating Grain.

(*Machine à nettoyer et séparer les grains.*)

Francois R Hawkins, Tilsburg, Ont., 29th August, 1877, for 5 years.

*Claim.*—The peculiar combination of the sieves B B and C C and the spouts E E and F F with the shaker, and of the whole with any ordinary winnowing machine.