No. 9830. Machine for Washing Clothes.

(Machine à laver le linge.)

Abner R Giles, (co inventor with James A Tupper,) Ottawa, Ont., 10th April, 1879 (Extension of No. 3276), for 5 years

No. 9831. Improvement in Eye Shades.

(Perfectionnement aux garde-vue.)

John B. Ricketts, William A Wilson and George A. Kennard, St. Joseph, Mo., U. S., 12th April, 1879, for 5 years.

Claim—Two concave-convex surfaces of suitable material connected by a nose piece or bridge.

No. 9832. Improvements on Candlesticks.

(Perfectionnements aux chandeliers.)

Andrew J. Smith and Elias A Bonine, Ukiah, Cal., U. S., 12th April, 1879, for 5 years.

Claim—1st. The sleeve, or cylinder D, with spring finger C, forming spring socket to clasp the candle, in combination with the cylinder or socket piece C, connected with the bottom A, directly or by slipping it over another socket or standard 2nd The cylindrical box B, rising from the bottom A and adapted to receive the matches, in combination with the cylinder, or sleeve C and cylinder D, with spring finger C, forming spring socket to clasp the candle

No. 9833. Improvements in Sash-Holders.

(Perfectionnements aux arrête-croisées.)

Osborn R Cooke, Chicago, Ill., U. S., 12th April, 1879, for 5 years.

Claim.—1st An upright stationary rod C attached to the window frame, in combination with a pair of catches or dogs pivoted to the sash, with their inner ends embracing the rod, and constructed and arranged so that when these ends are closed together they will slide freely on the rods, and when opened will bite or gripe the latter in opposite directions, 2nd. The stationary rod C attached to the window frame, in combination with the sash B, having a groove *b*, the pivoted catches E and a separating spring G, 3rd The shield F, provided with a projection or stop *f*, in combination with the pivoted catches E and the spring G; 4th. The bent rod C, having its lower bent end flattened and widened, in combination with the keeper D, provided with an elongated slot *d*.

No. 9834. Improvements in Pumps.

(Perfectionnements dans les pompes.)

John Coleman and George Brett, Toronto, Ont., 12th April, 1879, for 5 years

Claim—1st The pump handle, divided at or before the point of its pivotal connection with the pump head into two sections, which spread apart and extend along opposite sides of the pump head, in combination with the connection rods D D and pump rod B, 2nd The divided pump handle C and bolt F, in combination with the pump head provided with a bearing extending the full width of the pump head, 3rd. The combination of the divided handle C, bearing E, bolt F, rods D D and the pump rod B.

No. 9835. Improvements on Vehicle Tops.

(Perfectionnements aux soufflets des voitures.)

Theodore F. Hayes and James H. Hayes, Spring Green, Wis., U. S., 12th April, 1879, for 5 years.

Claim—The combination with an adjustable buggy-top, of the cylinder or knob C, bolt D, thumb-screw F and hinged brace I.

No. 9836. Improvements on Force Pumps.

(Perfectionnements aux pompes foulantes.)

Norbert Legros and Albert Drouillard, Windsor, Ont., 12th April, 1879, for 5 years.

Claim—1st. The cylinder A with outlets O O, &c.; 2nd. The cylinder A_1, chambered and constructed as described; 3rd. The lever B, with the ends of its several arms attached by connecting rods C C, &c., of suitable lengths to lifting valves D D, &c; 4th. A crank rotating the end of a lever such as described 5th The combination of cylinder A with cylinder A_1, lever B, crank I and connecting rods C C.

No. 9837. Improvements on Brakes for Perambulators. *(Perfectionnements aux freins des voitures d'enfants.)*

Alexander McRonald and George Dingwall, Toronto, Ont., 12th April, 1879, for 5 years.

Claim—1st. The combination with any wheel of a perambulator, of a brake attached in a fixed or adjustable manner to the pivoted adjustable lever C_1, and operated from the slotted finger bar D, 2nd The adjustable pivoted lever C_1, provided with a brake head and retaining stops *c c*, in combination with the stirrup F and slotted finger bar D; 3rd The slotted lifting bar D, provided with notches *d d*, in combination with the handle E_2, provided with the studs *d d*; 4th. The brake C, lever C_1, stirrup F and finger bar D, in combination with the wheels, body and handle of a perambulator.

No. 9838. Art of Manufacturing Boots.

(Art de fabriquer les bottes.)

William R Miller and Miller R. Creighton, Baltimore, Md., U. S., 12th April, 1879, for 5 years.

Claim.—1st. A counter protector for a boot, consisting of a piece of leather arranged to cover and protect the counter, secured either forward or in the rear of the eye, or side seams of the boot, and fastened with the back, or the front and back, to the sole of the said boot, 2nd. A counter protector extending from a point in front of one of the eye or side seams, over the said seams, to a point in front of the opposite eye or side seam. 3rd. The eye or side seams of a boot protected by a stay strip, one side or edge of which strip is secured in the said seam, the other side or edge of the said strip being folded over the said seam, and stitched or otherwise fastened to either the front or back of the boot; 4th In combination with the front and back of a boot, a counter protector forming a part of the said boot, the lateral edges of which counter protector are covered and secured to the said front and back by means of stay strips covering the eye or side seams of the said boot, 5th In a boot, the combination of the counter protector with a side seam protecting strip covering the side seams.

No. 9839. Improvements on Animal Powers.

(Perfectionnements aux manèges.)

William Josiey n. Bedford, and William H. Smith, St. Armand, Que., 12th April, 1879, for 5 years.

Claim.—1st. The wheel D, mounted to rotate on a fixed arbor C; 2nd. The latching bar E, secured to the fixed arbor C, in combination with a wheel D, mounted to rotate, 3rd. The wheel D, constructed of bent follies F boards G, supported in grooves therein, and tied by bolts or rivets I; 4th. The provision to the inner periphery of the wheel J, on the floor G of a fabric a and slats *e*, to give a foothold for the animal. 5th The brake or band wheel J, constructed of bent wood and applied as set forth, 6th. The brake lever K fulcrumed to a post A, the brake block L pivoted to said lever, and operating against the inner periphery of the brake and band wheels J; 7th The provision to the wheel of removable bars or weights M 8th. The walking beam N oscillating on the fixed arbor C in combination with pitman O crank wheel P, band S and hand-wheel T, secured to the thread-wheel D, mounted on the stationary arbor; 9th. The provision to the wheel D, of he gear wheel W, to be used as set forth.

No. 9840. Apparatus for Granulating Grain.

(Appareil pour concasser le grain.)

James Higginbottom and Edward Hutchinson, Liverpool, England, 12th April, 1879, for 5 years.

Claim—1st The use of bed plates with true running surfaces rigidly attached to and revolving with the millstones, in combination with and running upon carrying plates, and bearings having true bearing surfaces, such carrying plate and bearings being fixed or supported on an outer casing surrounding the millstones, or in any other suitable manner, 2nd Forming the true running surfaces of the bed plates, which are rigidly attached to the millstones, and the true bearing surfaces of the carrying plates and bearings fixed to and carried by the casing or otherwise so that they are truly parallel with each other, and also parallel to the grinding or working faces of the millstones; 3rd. The use of an outer casing surrounding the millstones preferably in two parts, each part having its carrying plates and bearings, the joint between the two parts being adjustable by means of a screw or other mechanical equivalent, so that the two parts may be set nearer or further apart without disturbing the parallelism of the running and bearing surfaces, 4th The combination of millstones with bed plates, bearings, plates, and an outer casing in two parts, with an adjustable screwed joint, 5th The use of an oil chamber H, attached to either part of the casing, in combination with the projecting drip flange L, the side bearings I and the annular bed plate E, the plates F F and bearing G with oil chambers or grooves, 6th Arranging the pulleys R R for receiving motion, so that the belts shall be opposite to the side bearings, so that the strain upon the belts shall have the least possible disturbing effect upon the true running of the millstones, 7th. The mode of working a pair of millstones, in combination with the rigid bed plates running on bearings, whether such millstones run in the same direction or in opposite directions, or whether one of the millstones is stationary and the other revolving.

No. 9841. Improvements on Spring Beds.

(Perfectionnements aux lits à ressorts.)

Chauncey S Terwillegar (Assignee of Enos C. Healy), East Whitby Ont 12th April, 1879, for 5 years.

Claim.—The mode of constructing the upper surface of spring beds, with upper cross bars B B divided and re jointed with iron or steel straps C C, rivetted through the cross-bars B B on which the longitudinal slats A A are fastened.

No. 9842. Improvements on Vehicle Springs.

(Perfectionnements aux ressorts des voitures.)

John Krehbiel, Williamsville, N. Y., U. S., 12th April, 1879, for 5 years.

Claim—1st. In a waggon, car, &c., having its bolster provided with the convex bearing piece A_1, a series of independent differently-curved leaf springs D and the spring board C, 2nd. The combination, with the bolster A and spring board C or its equivalent, of a series of independent leaf springs D, said springs being arranged in relation to one another, and the spring board secured to the bolster by the bolts or clips E; 3rd. In vehicles, a series of independent leaf springs arranged in relation to one another, in such manner that the deflection of one spring will bring into action the next succeeding spring, 4th The socket G having the double prismatic projections *g* engaging the ends of the spring D.

No. 9843. Improvements on Shaft Bearings.

(Perfectionnements coussinets des arbres de couche.)

George W. Thomas, Bear River, N. S., 12th April, 1879, for 5 years.

Claim—1st. The combination of the rollers B, bars E and roller rings D with the shafts and bearings of mill and factory construction, or with the axles and boxes of railway cars; 2nd The combination of the rollers B bars E and roller rings D with the hubs of vehicles or agricultural implements; 3rd. The combination of the collars H with the hub.

No. 9844. Improvements on Boots.

(Perfectionnements aux bottes.)

Olivier Durocher, Ottawa, Ont., 12th April, 1879, for 5 years.

Claim.—1st. In an Alexis boot the upper *a* made in one continuous piece; 2nd. The arrangement and combination of the upper *a* with the gusset *c* and the lappels *b* having the slits *o*. 3rd In a boot or shoe, the lappels *b* cut either by the firm lines *p r s*, or as having the curved edge *p r* substituted by the angular shape indicated by the dotted lines *p q r*.