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INVENTIONS PATENTED.

No. 1901. CHARLES LEVEY, Toronto, Ont., 18th December, 1872, for 5 years: "Improvement in Steam Engines." (Perfectionnement dans les chaudières à vapeur.)

Consists of a general simplification of the steam engine by placing the working parts in the most favorable position to resist the strain, thereby reducing the weight of material used and diminishing the labor and cost of fitting, etc.

Claim.—1st. Widening the bed or frame of a horizontal engine at one end as shown at *b*, fig. 2, so that an entire cylinder can be dropped down to the centre of its diameter without otherwise increasing the width of the bed; 2nd. Casting the cylinder and bed in one piece so that the centre of cylinder is in the plane of the top of the bed; This is illustrated by fig. 18, if the flanges *e, e*, are removed, 3rd. The form or design of bed as shown with enlargement at fig. 2, *b*, to facilitate the removal of cylinder cover; 4th. Forming the shaft bearing in the bed or frame and adjusting the same as shown in figs. 1, 4, 5, 6 and 7, and 5th. Dividing the steam-jacket and casting one half with the bed and the other half with the steam-valve or steam chest and inserting an entire cylinder or sleeve between the halves as shown in figs. 8, 9, 10, 11 and 12.

No. 1902. LOUIS SMITH, Sherbrooke, Que., 18th December, 1872, for 5 years: "Process of treating Wood for the Manufacture of Paper." (Procédé de traitement du bois pour la fabrication du papier.)

Relates to a method of preserving the fibre of the wood whilst being reduced into pulp, by arresting the process at a certain stage of the operation.

Claim.—1st. The application to the apparatus or boiler of a tester or regulator *n, n*, for testing materials during the process of reduction from wood or other kindred substance to a fibrous pulp; and 2nd. The application of a safety valve *l*, to a rotary apparatus or boiler.

No. 1903. EDMUND A. DAY, Oberlin, Ohio, U.S., 18th December, 1872, for 5 years: "A Hose Valve." (Une valve de tuyau élastique.)

An adjustable elastic nozzle attached to a metallic tube.

Claim.—1st. The lever handles *C, C*, cross bars *E, E*, and *E*, and springs *F*, in combination with the barrel *A*, hose *B*, and adjustable elastic nozzle *B'*; 2nd. In combination with the cross-bars *E*, and *E*, the two separate elastic bands or springs *H* and *I*.

No. 1904. NELSON W. GOODRICH, Vergennes, Vt., U.S., 18th December, 1872, for 5 years: "A Horse Shoe Nail Machine." (Machine à clou à cheval.)

For smoothing, pointing, and shearing horse shoe nails after they have been formed in an ordinary machine.

Claim.—1st. The concentric cylinders *A, B*, to adapt them for carrying and holding the nails, while being operated upon by the dies and punches; and 2nd. The combination of the dies *C, I*, punches *D, G, H*, sliding-plate *E*, and endless screw *O*, with the concentric cylinders *A, B*, and with the operating gearing.

No. 1905. FRANCIS W. MALETT, New Haven, Conn., U.S. 18th December 1872, for 10 years: "A Needle Machine." (Machine à aiguilles.)

Relates to a mechanism which receiving the blanks in length for two needles transfers them from one device to another thereby forming the eyes in the centre and pointing the two ends.

Claim.—1st. In a hopper, the two checks *B₁, B₂*, which form the throat *a*, of the hopper, one of which checks is made adjustable so that the said throat may be made of greater or less width; 2nd. In combination with a hopper for supplying the blank wires, the revolving shaft *B₃*, with its cams *a*, arranged in the relative position to the throat *a*; 3rd. In combination with a hopper for delivering the blank wires, the slide *C*, having a longitudinal reciprocating movement and constructed with a slot *C₁*, and provided with a pivoted bar *C₂*, by means of which the said reciprocating movement may be arrested without stopping the other parts of the machine; 4th. In the parallel slides *D*, having an up-and-down and longitudinal reciprocating movement, combined with the jaws *e, e*, to receive and transmit the blanks for successive operations, 5th. In the longitudinal screws *L*, constructed with the hook *f*, at their ends arranged to receive the blanks within the grasp of the said hooks, and combined with the mills *V*, and *G*, *G'*, over which the blank is carried by the said revolving screws; 6th. In combination with the revolving longitudinal screws *L*, the slide *L₁*, and bed *H*, the said slide *L₁*, having a reciprocating movement; 7th. In the longitudinal revolving screws *L*, the slide *L₂*, and the bed *H*, the said slide *L₂*, and the revolving screws *L*, having each a longitudinal reciprocating movement independent of the other, 8th. In the arrangement of the springs *p*, above the flexible strips *m*, in the slide *L₁*; 9th. In the arrangement of the mill *V*, and slotted plate *W*, when to both is imparted a traverse vibratory or reciprocating movement; 10th. In combination with the mills *G, G'*, the bars *P*, and their pressure-spring *R*; 11th. In combination with the mill *G, G'*, bars *P*, and their spring *R*, the auxiliary bar *P₁*, and their adjusting screws *P₂*, to bear upon the said bar *P*; 12th. In combination with the mills *G, G'*, and carrying device for presenting the wires to the said mills, the ribs *T, T'*, when a rapid vibratory movement is imparted to the said ribs.

No. 1906. ALEXANDER A. MURPHY, Montreal, Que., 18th December, 1872, for 5 years: "A Store Stool." (Siège de magasin.)

A revolving and adjustable seat capable of being acted upon by foot pressure.

Claim.—The standard *a*, of any pattern or design, in combination with the reversible socket *e*.

No. 1907. GEORGE BOLTON, Arnprior, Ont., 18th December, 1872, for 5 years: "A Hot Air Drum." (Un poêle sourd à air chaud.)

Claim.—1st. The combination of the damper and ventilator *A*, with key *B*, connected with the main portion of the drum by a double flanged collar, 2nd. The combination with the hot air-drum *C*, and cone bottom of drum *D*, with smoke-channel *E, E, E*, and *F*, and *G*, air-pipe entrance and discharge.

No. 1908. GILBERT R. WILLETT, Annapolis, N. S., 18th December 1872, for 5 years: "A Washing Machine." (Machine à laver.)

Consists of a fluted roller pressed down by springs bearing upon its centre and attached to a base-piece.

Claim.—1st. The combination of the fluted roller *a*, with the smooth rollers *c, c, c*; 2nd. The springs *d, d*, so connected to the base *f*, that they may be readily detached therefrom, 3rd. The springs *d, d*, connected to the shaft *b*, by caps *g, g*, by means of which the pressure of the springs upon the shaft may be increased, and 4th. The combination of the base *f*, with the buttons *A*, and *i*.