### No. 7071. Improvements on Re-sawing Machines. (Perfectionnements and machines a refendee.)

John Lamb, Ottawa, Ont., 9th February, 1877, for 5 years

Claim.—The arrangement and combination of a tever for operating the sliding frame which carries the binding rollers, and which has its fulcrum in the bed frame which carries the back or stationary rollers

# No. 7072. Apparatus for Cleaning and Polishing Boots and Shoes.

(Appareil à nettoger et circr les chaussures )

David II Laurie and John Laurie Montreal Que 13th Pebruary 1877 for 5 years

Claim.—1st. A rotary brush or breshes mounted on a spandle driven by any notive power for the purpose of cleaning blackening, brushing and polishing boots, shoes, &c. 2nd. The rotary brush 1) unde concave so as a commodate itself to the shape of the boot. 3rd. The combination of one or more rotary brushes mounted on a spandle carried in proper bearings, with a shelf formed on the trame to receive the boots to be poished. 4th, In combination with a rotary brush a stand or last carrying the boot or shoe and presenting it to the action of the brush.

### No. 7073. Improvements on Pumps.

(Perfectionnements our pompes, )

George Lander, (Assignee of Francis T. Forbest Chicago, III. U.S. 15th February, 1877, for 5 years,

Claim—1st. The combination of the cylinder A and valve V removably langed and held in position by means of a removable lag b—2nd. The valve F provided with the forked or slotted arm C in combination with the roll G. 3nd Thescraper II and its operating rods I in combination with the cylinder A and valve F—1th. The valve K provided with a slotted curved bar emcombination with the operating rod L and exhader A—5th The piston J formed of two parts with curved interior in combination with the cylinder A baying its outlet E—straight or nearly straight in the bottom and curved upon the sides and top.

### No. 7074. Tobacco Cutt r. (Huche-tabuc.)

John Farrar, and Henry Earle, jr Montreal, Que., 13th February, 1877, for 5 years.

Claus.—1st. The combination, in a tobacco cutter of a cylinder containing in chambers the tobacco to be cut and placed in a loose ring carrying knives and secured to a serviced shaft upon which work arms for pushing the tobacco toward; 2nd. In combination with a cylindrical tobacco cutter the match boxes H and compartment I or either of them.

### No. 7075. Improvements in Can Making Machines.

(Perfectionnements any muchines a faire les boites métalliques.)
Peter Dillon and George H. Bradford, Sherbrooke, Que and John Cleary,
Great Falls, N. H., U. S. 13th February, 1877, for 5 years.

Great Falls, N. H., U. S. 13th February, 1877, for 5 years.

Glama—181. In combination with the bath Br for the purpose of holding molen solder, a soldering bolt I remisting of a copper point i in communication with the bath Br by means of a tube t, said communication being regulated by the valve to constitute a soldering apparatus. 2nd, In combination with the soldering apparatus Br I described above, the shding month M, dog ex and clips K7 K3 with their operating mechanism. 3nd, In combination with the soldering apparatus Br I2, the rotary holder h with its springs pp and operating mechanism; this, In combination with the furnace Fr Fr a perforated guard f for the purpose of allowing the point of the soldering boilt to be heated without being clogged with ashes or dust.

### No. 7076. Improvements in Saddle-trees.

(Perfectionnements aux fûts des sellettes )

William H. Taylor, Buldwinsville, N. Y., U. S. and Samuel Taylor, Hamilton, Out., 13th February, 1877, for 5 years.

Plaim=1st The cantle B and centre yoke L formed all in one piece the empter loop C formed in a separate piece from either and grooved to receive the check hook D in connection with the projections  $\mathcal F$  on the cantle B. and The stops G on the hinge K, the pad screw seekets I.

### No. 7077. Spring Bed Bottom.

(Fond de lit à ressorts.)

Thomas DeWitt chatham, Ont., 13th February, 1877, (extension of Patent No. 6760), for 5 years.

## No. 7078. Process and Apparatus for Treating the Ores of Gold and Silver.

(Percede et appreced pour le tradement des minérais d'or et d'argent.)

Augustine B. Crosby, Greene Me. Francis Amory. Beverly. Mass. Eduard. W. Hannon. Haverhill, John Wetherbee, Boston, Mass. Joseph G. Mit. chell. Germantown, Pa. Charles H. Crosby. Lishon. N. H. John W. Beats. Boston, Mass., U.S., 13th February. 1877. for 15 years.

Plain 1st The successive and continuous subjection of the ore to the drying toxsing, graiding washing and amargamating processes by teeding the ore continuously and at a uniform rate through the apparatus used in an opposesses so that every portion of the ore is subjected to practically the same conditions, and the movel incelanical devices and arrangement of apparatus as essays for accomplishing this result. 2nd. Drying the ore after it taken from the cencentrating apparatus by feeding the same on and over a series of pipes heated by being used to convey the product of combustion from the furnace used for heating the roasting cylinders, and also to convey the heated vipors escaping from these said cylinders. Inc. In combination with the said drying apparatus the settling chambers and wash down apparatus used for cultering the assented or other smillar products from the original of the method of collecting the assented or other similar products.

obtained from the ores heated by this process by subjecting the condensed vapors which pass off from the reasting cylinders to the action of a current of hot water and cansang the deposition of the arsenical or other similar products obtained by reducing the temperature of the resulting solutions but The combination of the drying receptuate and drying tubes. 6th The combination with the wash down or condensing apparatus composed of a series of shelves. 7th. The combination with the wash down or condensing apparatus of the tanks and pump or ats equivalent. 8th. The combination with the wash down or condensing apparatus of the tanks and pump or ats equivalent. 8th. The combination with the roasting cylinders, the heating funace connecting the and drying apparatus and its adjuncts of the suction blower. 10th. The combination with the roasting cylinders of the edit regulating feed apparatus (the trace) in the supply paper of of the valve. 12th. The combination with the roasting cylinders of the bands and rollers supporting and rotating the cylinders. 13th. The combination with the roasting cylinders of the bands and rollers supporting and rotating the cylinders. 13th. The combination with the roasting cover. 11th The combination with the roasting cover. 11th The combination with the roller the well and plate. 16th. Heating the water used in the wabing apparatus by fits using the same to cool the ore in the cooling apparatus. 15th. The combination with the costing apparatus of the elevator or its equivalent granding mills and washing apparatus both I evivating or washing the ore pulp by subjecting it to the action of a suitable sirring apparatus and the action of a cutrent of water introduced into the bottom of the washing the 15th. The combination with the washing tab having a conical bottom and provided with suitable discharge pipes of the partition rotating street, hollow shaft gearing and hollow wooden cylinder. 20th The combination of the washing tab, strainer and sleeved tubes Er Eu: 22nd. The combination with

#### No. 7079. Composition of Matter for Deodorizing Night Soil.

AComposé pour desinfecter les matières excrementelles à

Walter H. Barrett, Toronto, Ont. 16th February, 1877 for 5 years.

Claum-A composition of matter composed of mirate of lead, chloride of ammonium and water, and mixed.

## No. 7080. Apparatus for Disengaging Ship's Boats from their Lowering Tackles.

(Appured a degager les canuts de naveres de leurs agres de descente,)

Arthur B. Cruickshank Dandee, Scotland 16th February 1877 for 5 years.

Claim. Constructing and operating the hooks UC and shackles B B in combination with the ordinary tackle employed to lower beats into the water.

No. 7081. Railway Alarm. (Alberta & controller)

John M. Livingstone, Merration, Ont., 16th February, 4877 for 5 years

Claim.—1st. The spring d, rods r and h and curved rod f-2ml. The shaft  $g_s$  arm  $g_s$  joint k and springs l and m.

### No. 7082. Improvement on Axle Trees.

(Perfectionnement des essicus.)

William Herlihov and Henry Dennis, Landsay. Ont., 16th February, 1977, for 5 years.

Claim —The raised projections C. Cupon which the bolster or sand board rests, and the lower raised part of the collar D D and, the braces F.F.G.

### No. 7083. Composition for Kindling Fires.

(Compose pour allumer le feu.)

Charles D. Bradley, Quebec, Que., 16th February, 1877, for 5 years.

Claim.—Wood, paper or lags soaked in an inflammable flui d or fluids, as coal, oil tar and turpentine and covered with a wrapper capable of preventing evaporation, wholly or in great part, and at the same time not interfering with the ignition of the inflammable fluids within, as rosin and gum araba, or their equivalent.

#### No. 7084. Machine for Making Bobbins.

(Machine à faire des bobines.)

George W. Glazier, Salem, Mass., U. S. and Oscar E. Wait, Lynn, Mass., U. S., 16th February, 1857, for 5 years.

Claim.—18. The Intermittently revolving head E provided with sockets, in combination with an automatic clamping mechanism i 1, 2nd. The combination of the head E clamping devices i 1 and the evener F 3rd. The combination of the head E clamping devices i 1 and the evener F 3rd. The combination of the head E clamping mechanism with the roller h 4th The combination of the head E clamping mechanism i 1 and the hollow auger D 5th The combination of the head E clamping devices of the combination of the head E clamping device i 1, hollow auger D and the two series of revolving spindles 6th The combination of the head E carrying socket, and clamping devices of the head I carrying spindles the saw II and their operating mechanism; 7th The combination with the head E carrying socket, and clamping devices of the head I carrying spindles n and their operating mechanism; 8th. The combination of the head I provided with spindles u the lathe head N T 9th The head I and its hollow spindles n provided with wicking teading to a central cup or reservoir within the head. 10th. The combination of the lathe head N tool carriage Q, adjustable way u, lever 11, and cam M. 12th. The combination of the head with syndles n, carriage R and take off U; 13th. The combination of the rotating head I, carrying spindles n, tool carriage Q, carriage hed Q2, lever II and cam M having the deeper depression for dropping the head. 14th. The ad-