

# The Canadian Patent Office

## RECORD




Vol. V.—No. 4.

APRIL, 1877.

{ Price in Canada \$2.00 per An  
United States - \$2.50 }

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### INVENTIONS PATENTED.

#### No. 7170. Improvements on Horse Rakes. (Perfectionnements aux râtaux à cheval.)

Thomas Galloway and John Larsen, Oshawa, Ont., 1st March, 1877, for 5 years.

*Claim.*—1st. Eccentric dog J, or its equivalent, pivoted upon the bracket E, in combination with the shoe K fitting into the groove L, cut in the hub of the wheel A; 2nd. The clutch M bolted to the bracket F, in combination with the groove I, cut in the hub of a wheel A revolving upon the axle-tree and B; 3rd. The shoe K wedged into the groove L, by the eccentric dog J in combination with the clutch or stop M; 4th. The foot lever Q working within the elongated staple R and pivoted with the double crans O, in combination with the chain or rope P connected to the cranked rod N, for the purpose of operating the dog K; 5th. The brackets E, E bolted to the axle-tree C and supporting the staple bar D, in combination with the brackets F F pivoted upon the axle-tree ends B B and supporting the shaft G; 6th. The teeth H having hooked ends, in combination with the brackets I bolted to the back of the axle-tree C.

#### No. 7171. Folding Washstand.

(Lavemoin brisé.)

Sidney Kinder, Amherst, N. S., (Assignee of David O. Parker,) 3rd March, 1877, (Extension of Patent No. 1357), for 5 years.

*Claim.*—The three detachable hinged pieces A a and the shaft B b, said parts A a B b being constructed and arranged, as described.

#### No. 7172. Improvements in Sparks Arresters. (Perfectionnements aux arrête-flammèches.)

Frank M. Stevens, Concord, N. H., Henry G. Holmes, New York, and John A. White, Concord, N. H., U. S., 6th March, 1877, for 5 years.

*Claim.*—1st. The combination of the elbow pipe G its partition I, the two branch ducts K K and the conduit E to be used with a chimney and spark receiver; 2nd. The steam jet tube h in two sections coupled and provided with a stop cock K, in combination with the boiler A and the spark receiver C hinged together and provided with the educt f; 3rd. The spark receiver C provided with a receiving mouth l (separate from the conduit E for the discharge of sparks into such receiver), and hinged or applied to the open end of the smoke-box B so as to be removable therefrom and the conduit E, each open end of the smoke-box being provided or not with a head; 4th. The combination of the spark receiver C and its discharge chimney or chimneys D with the smoke-box B, the chimney B, the elbow pipe G and its three ducts E K K.

#### No. 7173. Combination of Processes for Making Syrups.

(Combinaison de procédés pour faire des sirups.)

Hugh W. Walker and Thomas L. Patterson, Greenock, Scot., 6th March, 1877, for 5 years.

*Claim.*—1st. The clear, bright fruit flavoured syrups made from the residual sweet liquids of syrups obtained in manufacturing or refining sugar the sweet liquids or syrups being treated with a solution of a suitable substance such as an alkaline bicarbonate or a soluble phosphate or a salt of alumina, which substance is subsequently precipitated and with impurities removed by filtration whilst the syrups are cooled rapidly after concentration and have fruit like essences combined with them 2nd. Clear bright syrup made from the residual sweet liquids or syrups obtained in manufacturing or

refining sugar, the sweet liquid or syrups being treated with a solution of a suitable substance, which is subsequently precipitated and with impurities removed by filtration, whilst the syrups are cooled rapidly after concentration; 3rd. Clear, bright syrups made from suitable sweet liquids or syrups, and prevented from becoming dull or turbid by being rapidly cooled after concentration; 4th. Fruit flavoured syrups made from suitable sweet liquids or syrups by combining therewith natural or artificial fruit essence or fruit-like essences.

#### No. 7174. Improvements in the Manufacture of Porcelain.

(Perfectionnements dans la fabrication de la porcelaine.)

Abel d'Estampes, New Orleans, La., U. S., 6th March, 1877, for 5 years.

*Claim.*—Artificial kaolin when formed of shells, white sand and feldspath.

#### No. 7175. Improvement on Collars for Garments. (Perfectionnement des collets d'habits.)

George Farwell, Salem Mass. U. S. (Assignee of Alberta Riley,) 6th March, 1877, for 5 years.

*Claim.*—The detachable collar A consisting of parts a b and having holes l for coats, sacques, capes and similar other garments.

#### No. 7176. Improvements on the Manufacture of Steel.

(Perfectionnements dans la fabrication de l'acier.)

Alfred B. Mullett, Washington, D. C., U. S., (Assignee of Julius Baur,) 6th March, 1877, for 5 years.

*Claim.*—The combination with the steel-making iron, in suitable proportions, of an alloy of chromium, manganese and iron, or of the requisite proportions of ferro-chromium and ferro-manganese.

#### No. 7177. Improvements on Semaphore Signals. (Perfectionnements aux signaux sémaphores.)

Francis Cullham, Beverly, Ont., 8th March, 1877, for 5 years.

*Claim.*—The combination of the endless wire H H, signal arm A, shaft B, pulleys C C and pulley G.

#### No. 7178. Process for Making Oakum.

(Procédé pour faire de l'étoupe.)

William E. Geer Chicago Ill U. S., (Assignee of Charles M. Winter,) 8th March, 1877, for 5 years.

*Claim.*—The process of making oakum by using a solvent made of sal soda or sun lab alkali and lime dissolved in water for cutting and holding in solution the tar and asphaltum with which the fibre is saturated, and cleansing of the said fibre with the acid solution.

#### No. 7179. Improvements on Nail Machines.

(Perfectionnements aux machines à clou.)

Isaac Briggs, Middleborough, Mass., U. S., 8th March, 1877, for 5 years.

*Claim.*—1st. In a feeding device for a nail machine the cam U bar I2 and lever C. 2nd. In a feeding mechanism for a nail machine the plate L, levers M M2, shafts 15 K, rod K, lever q and cam K. 3rd. In a feeding mechanism for a nail machine the barrel D2, plate D, plate H, coils E, rod H, levers H H2, and rod C.

#### No. 7180. Improvements on Trusses.

(Perfectionnements aux bandages herniaires.)

Philip Verum, Stryker Ohio, U. S., 8th March, 1877, for 5 years.

*Claim.*—1st. A truss pad composed of interlocking sections hinged together to form a safe receptacle for valuables. 2nd. The slotted back section having the button secured thereon between the slots. 3rd. The combination of the pad its slotted back, the button mounted thereon between the slots and the strap provided with a button hole and adjustable buckle whereby the pad is rendered adjustable and adaptable to either side of the body or to persons of different size, and one button fastens both ends of the strap.