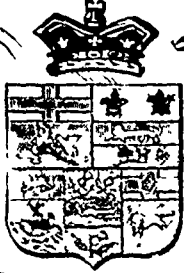
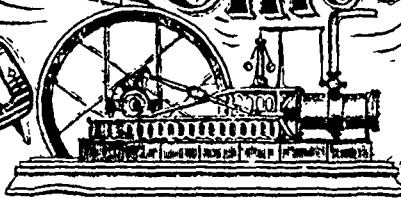


The Canadian Patent Office

RECORD

Vol. V.—No. 11.

NOVEMBER, 1877.

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

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INVENTIONS PATENTED.

No. 7930. Apparatus for Propelling Cars.

(Appareil de propulsion des wagons.)

John B. Tibbitt-Hosack, N.Y. U.S., 25th September, 1877, for 5 years.

Claim.—1st The driving wheels suspended in an inclined plane and capable of acting separately and independently of the momentum of the car for propelling or retarding the car. 2nd The inclined wheels I supported by arms L and driven by friction wheels H. 3rd The combination of the ways B, slides C, ways D, supports E, spring G, and shafts F. 4th The combination of the inclined wheels I having axles J, the pivoted boxes K and arms L. 5th The inclined wheels I when acted upon directly by the motive power that drives the car. 6th The wheels I placed on inclined axles, and employed in retarding the car.

No. 7931. Process of Treating Blood for Making Articles of Ornament.

(Procédé de traitement du sang pour la fabrication des objets d'ornement.)

Jonathan Bliss, Jersey City, N.J., and Franklin O. Badger, Brooklyn, N.Y., U.S., 25th September, 1877, for 5 years.

Claim.—The process of treating blood for making articles of use or ornament by reducing it to a dry and powdered or fine condition and subjecting it to a heat and pressure in suitable moulds or dies with or without the use of bone-dust or glue.

No. 7932. Manufacture of Pigments.

(Fabrication des colorans.)

Henry Knight, Liverpool, Eng., 25th September, 1877, for 5 years.

Claim.—1st. The combination of a, sulphide of zinc b, sulphate of barium, or of calcium and magnesium in the form of oxide or otherwise as a pigment; 2nd The use of magnesia oxide, in combination with other salts or oxides of metals in the manufacture of pigments.

No. 7933. Improvements on Vacuum Railway Brakes.

(Perfectionnements aux freins de railroads à vide.)

John D. Johnson, Richmond, Que., 25th September, 1877, for 5 years.

Claim.—The combination, in the fire box of a locomotive, of the water line guard a and metallic and, in some cases, water line guide G with the delivery tubes or nozzles of a vacuum railway brake.

No. 7934. Fork for Loading Loose Grain.

(Fourche pour charger le grain délié.)

Bartholomew S. Wells, Byron, Ont., 25th September, 1877, for 5 years.

Claim.—The fork A and handle B pivoted at a to the braces C C', in combination with bars D D', cord, strap or chain E, pulley F, rod or arm G, cross piece H, and coil spring I.

No. 7935. Process of Waterproofing Paper.

(Procédé pour imperméabiliser le papier.)

Daniel Felton, Manchester, Eng., 25th September, 1877, for 5 years.

Claim.—1st. The art of waterproofing paper and other ligneous tissues by impregnating them with a soluble salt or salts of zinc or cadmium in combination with ammonia. 2nd Treating them with a solution of bi-chromate or chromate of potash, soda, or alumina, combined with one of glue, gelatin or other like substance. 3rd Treating them with a solution of acetate sulphate or chloride of alumina.

No. 7936. Fire Escape. (Sauterelle d'incendie.)

James Amess, Rossmount, Ont. 25th September, 1877 for 5 years.

Claim.—The hinged clamp B, or its equivalent, provided with friction rollers F F and G, and handle D, in combination with the rope A passing through and a similarly constructed clamp C provided with a stirrup E, and connected to the clamp C by the ropes or cords H.

No. 7937. Improvements on Reaping Machines.

(Perfectionnements aux moissonneuses.)

Nicholas W. Brown, Whitby, Ont., 25th September, 1877, for 5 years.

Claim.—1st The sliding post C, as constructed with the foot iron L, bolted to the finger bar M, also the stud h working in the slotted lever A, the combination of the main box B with the slide boxes D formed of one casting and bolted to the frame G, the combination of the sliding post C and the boxes D with the foot iron L, secured to the sliding post a d finger bar, also the stud h at the upper end of post in connection with the lifting slotted spring lever A and ratchet bracket B. 2nd The solid swivel rake head J with the latch g of one casting the pivot revolving rake arm b, the combination of the rake head J with the revolving rake arm b latch g, recess j, coil spring H with washer and pin, and steel pivot e on which the rake head swings around when automatically released, also the swinging lever cam; 3rd. The combination of the tilting lever L, ratchet iron M, rocking shaft O and link P with the frame G and tongue N. 4th The spring lifting lever Q pivoted at n, in combination with the ratchet iron S and slide iron R.

No. 7938. Grindstone Frame.

(Bâti de meule à aiguiser.)

Stephen T. Packham, Newmarket, Ont., 25th September, 1877, for 5 years.

Claim.—The combination of the flanged casting D, standards C C, brackets E E with angularly placed leg sockets L, and the sprung legs G, 2nd The journal caps C' C' provided with the strays C, in combination with the standards C provided with grooves C'. 3rd. The axle B provided with the segmental projecting thread B', in combination with the journal caps C'.

No. 7939. Improvements on Motor Springs.

(Perfectionnements aux axes ressorts moteurs.)

Isaac Solomon, Solomon's Island, Md. U.S., 25th September, 1877, for 5 years.

Claim.—In combination with a coiled motor spring an auxiliary spring applied to its inner end or to any point between its two extremities.

No. 7940. Improvements on Railway Rail Keys.

(Perfectionnements aux clés des rails de railroads.)

Edward Burstow, London, Eng., 25th September, 1877, for 5 years.

Claim.—1st. Making the key for fixing the rails of railways with the grain of the wood at right angles to the length of the rail, 2nd. The combination of a block of wood with the grain, with a metal wedge or wedges.

No. 7941. Improvements on Oil Stoves.

(Perfectionnements aux poêles à pétrole.)

David Shields, Sing-Sing and Robert Z. Liddle, Albany N.Y., U.S., 25th September, 1877, for 5 years.

Claim.—1st. The combination in an oil burning stove of a base or frame, with a heating or cooking drum the bearing of which on the said frame or base is through the medium of sharp-edged pointed projections; 2nd. The combination of the heating or cooking drum having projections a and set screws X with bearings on the base for the said screws; 3rd. The combination of the reservoir, and a body or layer of plaster or other non-conducting substance with the air passage B; 4th The combination of the reservoir, the plate H made detachable from the reservoir, and the wick tube C carried by the said plate; 5th. The reservoir plate H and wick tube, all combined and made movable on the stand. 6th The combination of the reservoir B and its flanges b' with the grooved guides a' on the standards of the base. 7th The combination of the base and its standards and the reservoir B with a rack or basket L or other equivalent support interposed between the said standards and reservoir. 8th. The combination of the reservoir and its support L, having flanges b' with the guides on the base; 9th. In an oil