

The Canadian Patent Office RECORD




Vol. II.—No. 3.

JUNE, 1874.

Price in Canada \$1.50 per An.
United States - \$2.00 "

CONTENTS.

INVENTIONS PATENTED,	41
INDEX OF INVENTIONS,	46
INDEX OF PATENTERS,	46
ILLUSTRATIONS,	47

INVENTIONS PATENTED.

No. 3492. **MATHEW REEVES**, Hamilton, Ont., 28th May, 1874, for 5 years. "Self-Acting Car Coupling." (Attelage de wagon automatique.)

Claim.—The bell-mouth A, of the draw-head or buffer, the coupling link B, and the draw hook c, as set forth; 2nd. The uncoupling rod D, with the cam D, attached to the spring E, as set forth.

No. 3493. **WILLIAM T. RICHARD**, Toronto, Ont., 28th May, 1874, for 5 years. "Construction of Machines for Washing, Concentrating and Amalgamating Ores of Precious Metals. (Construction des machines à laver, concentrer et amalgamer les minerais de métaux précieux.)

Claim.—1st. The re-coating the discs or plates I, with liquid quicksilver; 2nd. The plates or discs I, shaped in either a spiral or fish tail form and coated with quicksilver in combination with the revolving shaft F, and tank A.

No. 3494. **ROBERT BUSTIN**, St. John, N. B., 28th May, 1874, for 5 years: "Machine for Hanging Wall-paper. (Machine à tendre le papier.)

Claim.—1st. The combination of the rollers a b c and d, as set forth; 2nd. The combination of the plate g and nut and screw s with the roller b, as set forth.

No. 3495. **ANDREW H. MALCOM**, Dartmouth, N. S., 28th May, 1874, for 5 years: "Self Connecting Car-Coupling." (Attelage de wagon automatique.)

Claim.—1st. The combination of draught dog spring and coupling bar; 2nd. The combination with draught dog spring and coupling bar of bolt c as set forth.

No. 3496. **GEORGE W. MCCREADY**, Peticodiac, N. B., 28th May, 1874, for 15 years: "Boring Machine." (Machine à Percer.)

Claim.—1st. The combination with a series of levers E, fitted with oblique cranks j, of the collars i, as described; 2nd. The adjustable bit case c, constructed and secured to table A, as described by means of the binding screws l, slots u, screw plate v and lateral supports e, or in a manner equivalent thereto; 3rd. The use of three perforated borer plates D, set up in bit case c as already specified, for the purpose of holding in true parallel position the shanks of borers E, the third perforated plate also affording a bearing to collar i; 4th. The use of the fourth perforated plate D, similar to the other three for the purpose of holding the heads of borers E, said plate being let into a recess in driving plate B, and firmly secured therein by means of catches K, or an equivalent device; 5th. The construction and use of a driving plate B fitted with two circular openings C, said openings to be same as the distance between the axes of the shafts d and also the central boring or recessing of said driving plate B, for the re-

ception of the fourth perforated plate D; 6th. The use of two cranks or eccentrics o, upon shafts d, and driven by the same velocity by the pinions a gearing into the driving wheel C, said cranks or eccentrics giving the requisite motion to the driving plate B, as described; 7th. The combination of the driving plate B, bit-case c, perforated borer plates D, and borers E, with the eccentrics b, and pinions o, and the other mechanical appliances enumerated in the preceding claims in all respects as described; 8th. The construction and use of a clamping and feeding apparatus F, consisting essentially of a sliding carriage vice made up of the following parts, base and lower jaw r, vertical tubes s, upper jaw q, spring p, clamping plate h, perforated struts n, rods o, slots a, bolt t, and adjusting screws m, the same to be constructed as described and caused to move between guide rails g, securely fastened to table A; 9th. The use of a lever G, in combination with carriage vice and the cross bolts v, the latter being pivoted to the struts n, thereby producing simultaneously the clamping of the articles required to be bored and the feeding of the same to the borers E, and by the reverse motion of the lever withdrawing the articles after being bored and then releasing them from the grip of the vice; 10th. The combination of said clamping and feeding apparatus F, with the other parts of the boring machine described as essential to the completion and successful working of the same and each essential to the other.

No. 3497. **FRANCOIS A. H. LARUE**, Quebec, Que., 29th May, 1874, for 5 years. "Process for Cleaning and Concentrating Copper and other Pyrites." (Procédé pour nettoyer et concentrer les pyrites de cuivre et autres.)

Réclame.—1e. Traiter avec le charbon ou tout autre agent réducteur les pyrites de cuivre et autres pyrites, préalablement grillées ou non afin de rendre magnétique le minerai de fer combiné avec le minerai de cuivre ou autres minerais. 2e. Passer ce minerai ainsi préalablement traité sur un appareil magnétique ou électro-magnétique; 3e. Débarrasser par là les pyrites de cuivre et d'autres pyrites des substances minérales terreuses et étrangères avec lesquelles elles sont ou peuvent être mélangées, tel que décrit.

No. 3498. **ISAAC ATKINSON**, Hamilton, Ont., 29th May, 1874, for 10 years: "Process for Curing and Packing Meat." (Procédé de conservation de la viande.)

Claim.—The mode of treating meat for packing the same consisting in removing the moisture remaining in the meat after curing and washing by subjecting the meat to compression, preparatory to packing, as specified.

No. 3499. **ELIJAH MCCOY**, Ypsilanti, **GEORGE G. ROBY** and **CHARLES G. WIARD**, Detroit, Mich., U. S., 29th May, 1874, for 5 years: "Improvements on Lubricators for Steam Engines." (Perfectionnements aux graisseurs de machines à vapeur.)

Claim.—The thimble valve B, provided with slots or perforations d d, and resting upon a shoulder b, in the tube A, in combination with said tube A, and cap C, as set forth.

No. 3500. **THOMAS LALOR**, Toronto, Ont., 29th May, 1874, for 5 years: "Machine for Locking Cell and other Gates." (Machine à fermer à clé les portes des cellules et autres.)

Claim.—1st. The revolving shafts E, with the clips C, to fasten the gate; the lever B and rolling chain. 2nd. The combination of cog-wheels or the two flat bars to work the upright bars, lever &c. and the balance motion of the two ends of the coils or vaults &c., as set forth.