

Claim.—1st The rubber tube *c*, inserted in one or more of the steps of the jamba B, *B*, as described; 2nd. The eccentric rod *K*, handle *L*, hub *q*, *q*, eccentric pins *m*, *m*, hinges *h*, *h*, and *i*, *i*, as described.

No. 4359. WILLARD LAMB, Green Bay, Wis., U. S., 2^d February, 1875, for 5 years: "Improvements on Carriage Movement of Saw Mills, Planers or other Machines." (Perfectionnements au mouvement des charriots de scieries, de raboteur et autres machines.)

Claim.—In combination with a reciprocating carriage C, the pulley or drum D, provided with a spiral or screw grooved or plain; and the wire rope *b*, wound around said pulley or drum and having its ends passing around pulleys *d*, *d*, and attached to the carriage as set forth.

No. 4360. ALBERT F. GUE, Eastmanville, Mich., and JAMES M. KELLEY, Austin, Ill., U. S., 3rd February, 1875, for 5 years: "Railway Train Brake." (Frein de railroute.)

Claim.—1st. A chain spool sleeved upon a locomotive driving axle with a friction disc at each end made of wood or other suitable material, in combination with a collar or collars to form a single or double friction clutch as set forth. 2nd. The combination with a locomotive driving axle of a chain spool sleeved thereon, a friction disc and a friction clutch on each side of the same, the latter being feathered on the said axle, or lever, a rock-shaft, two eccentrics and two bell cranks with friction rollers at their ends, for simultaneously operating said friction clutches, as described; 3rd. The oil receptacle *f*, coved in the spool B, and closed by the plug *g*, as set forth.

No. 4361. HOMER ROGERS and STEPHEN MOORE, Sudbury, Mass., U. S., 8th February, 1875, for 5 years: "Process of Making Counters for Boots and Shoes." (Procédé de fabrication des contre-forts de chaussures.)

Claim.—The improved method, as described, consisting in separating the sheet into ellipses or duplex counters A, arranged as shown in Fig. 1, and subsequently splitting each obliquely through its longer axis or central line, as shown in Fig. 2, of the drawings.

No. 4362. JOHN T. O'BRIEN and CHARLES C. CONTRELL, Brooklyn, N. Y., U. S., 8th February, 1875, for 5 years: "Apparatus for Weaving Headings for Fringes, &c." (Appareil à tisser la chaînette de la frange, &c.)

Claim.—1st. The guide loops *h*, at the edges of the vertical bar *l*, combined with the clamping plate *o*, and tightening screw *r*, applied to hold the threads or warps *i*, as set forth. 2nd. The spring loops *u*, each attached at one end by a joint and catching into a hole in the vertical spool rod *s*, in combination with the said rod and the clamp *o*, for the thread upon the vertical bar *l*, as set forth.

No. 4363. JOHN G. EVENDEN and F. CORTEZ WILSON, Chicago, Ill., U. S., 8th February, 1875, for 5 years: "Measuring Pump for Drawing Oil from Cans." (Pompe-jauge pour tirer l'huile des bidons.)

Claim.—1st. The adjustable stop M, in combination with the plunger rod *h*. 2nd. The combination of the cylinder C, and jacket H, with the valve opening K, between them as set forth. 3rd. The combination of the cylinder C, the plunger F, and the escape pipe L, for allowing the oil to flow back as set forth. 4th. The combination of the cylinder C, surrounding jacket H, valve opening K, plunger rod *h*, escape pipe L, and adjustable stop M, as set forth. 5th. The elastic pieces O, and P, in combination with the plunger rod G, and stop M, as set forth.

No. 4364. ALEXANDER HEATHERINGTON, Halifax, N. S., 8th February, 1875, for 5 years: "Machine for Amalgamating Crushed Ores of Gold and Silver, and for Separating, by Washing, Substances of Different Specific Gravities." (Machine à amalgamer les minerais d'or et d'argent broyés et séparer, par le lavage, des substances de poids spécifique différent.)

Claim.—The chest *a*, *b*, *c*, *d*, *e*, in combination with all its parts, as shown in the drawing; 2nd. The inclined planes *h*, *h*, arranged one above the other and consisting of movable or immovable sup-

ports for amalgamable or amalgamated plates, or of movable or immovable sluices, or trays of wood or other material, with stoppers, corrugated or plain surfaces, and intended to carry amalgamable or amalgamated plates when the apparatus is used as an amalgamator, as shown in the drawing. 3rd. The partition *q*, *q*, consisting of one or more metal plates, or of wood or metal, lined with an amalgamable surface on one or both sides, as shown in the drawing.

No. 4365. PURCHES MILES, New York, U. S., 8th February, 1875, for 5 years: "Bail Fastening for Pails, &c." (Ajustage des anses de seaux, &c.)

Claim.—1st. The wire bail fastening made of a wire loop *4*, upwardly penetrating points 2, 3, and the nearly straight portion 5, resting against the surface of the wood, as set forth. 2nd. The wire bail fastening made with upwardly penetrating and clinching points in combination with a convex washer that prevents contact of the bail with the wood, as specified.

No. 4366. CARLOS H. PARKER, Robinson, Que., 8th February, 1875, for 5 years: "Water wheel." (Roue hydraulique.)

Claim.—1st. The gate or annular ring C, in combination with the cap E, with the standards F, F, and the gate staff N, and the rock posts P, P, the gears Q, Q, also the conical gears R, R, the cross shaft S, and the rollers T, T, the braces V, V, the cross beams W, W, and the lugs X, as described; 2nd. The double water wheel, Fig. 2, with the buckets *a*, *a*, above, and the buckets *d*, *d*, below, as and for the purposes described. 3rd. The shape of the upper buckets Figs. 3, *b*, *b*, for wood edge *c*, *c*, heel, and *d*, *d*, the double scroll, and the back surface *h*, *h*, all combined as described.

No. 4367. ASHER M. MILLER and MARSHALL M. MILLER, Sturgis, Mich., U. S., 8th February, 1875, for 5 years: "Bag-fastener." (Attache-sac.)

Claim.—The curved and slotted plate A, and cord B, in combination with the eyelets in the mouth of the bag C, as set forth.

No. 4368. BENJAMIN F. BARKER, Curtisville, Mass., U. S., 8th February, 1875, for 15 years: "Improvements on Machines for Grinding Wood for Paper Stock." (Perfectionnements aux machines à triturer le bois pour la pâte à papier.)

Claim.—1st. In combination with a revolving stone C, the wood holder described having its bottom D, inclined relatively to the stone, so that the wood in feeding forward shall move obliquely across the line of motion of the grinding surface as specified; 2nd. The grinding stone C, and the wood holder V, in combination with the follower M, springs *m*, and lever I, and its connecting branch piece B, with its rods *h*, *h*, for conveniently drawing back the follower for the introduction of new material as specified. 3rd. The rack *b*, pinion J, and weighted pulley K, in combination with the follower M, wedge-shaped wood holder D, II, and stone C, as set forth. 4th. The construction of the pawl L, and stop K, with the follower M, and its impelling mechanism as described.

No. 4369. WILLIAM E. LAWRENCE, New York, U. S., 8th February, 1875, for 5 years: "Curry Comb." (Étrille.)

Claim.—1st. The curry comb made with the wires *c*, running transversely to the comb plates, and returning behind the same to the handle *e*. 2nd. A curry comb in which the connection between the handle and the comb is strengthened by a brace extending from the handle shank towards the front part of the comb. 3rd. A curry comb made of a series of trough shaped plates with the toothed flange on one plate supported by the plane flange of the adjacent plate, in combination with connecting wires or knocker plates, as set forth.

No. 4370. JOSEPH LEMAY dit DELORME, Montreal, Que., 8th February, 1875, for 5 years: "Dumb-stove Ventilator." (Ventilateur de poêle sourd.)

Résumé.—1o. Le poêle sourd A, ayant les tubes C, formant entre eux les conduits intérieurs pour le passage de la chaleur et de la fumée, construit tel que décrit; 2o. En combinaison avec le poêle sourd A, le réservoir G, et le tuyau d'appel ventilateur F, tel que décrit.

Claim.—1st. The dumb stove A, having the tube C, forming between them the internal conduits for the passage of the heat and smoke constructed as described; 2nd. In combination with the dumb stove A, the reservoir G, and the draught ventilator pipe F, as described.