

No. 3349. WILLIAM WADE, Morpeth, Ont., 27th April, 1874, for 5 years: "Improvement on Self Car-Couplers." (Perfectionnement des attelages automatiques de wagons.)

*Claim.*—The application of latch C, combined with lifter B; 2nd. The inner arrangement and chambers E, F, G, as set forth.

No. 3350. FRANKLIN LEONARD, Cleveland, Ohio, U. S., 27th April, 1874, for 5 years: "Machine for Making Railway Car-Coupling Pins." (Machine à faire les chevilles d'attelage de voitures des chemin de fer.)

*Claim.*—1st. The slides B, and C, arranged to operate conjointly in relation to each other, and in combination with the slides B, and C, for upsetting and gathering up the stock in a bar for forming thereon the heads and collars of railway coupling pins in the manner described; 2nd. The dies N, O, having thereon the prints c, c, and d, for forming the heads and collars of railway car-coupling pins, in couples in the manner described; 3rd. The slides B, and C, arranged to operate in combination with each other and to co operate with the slides B, C, and in relation to the dies N, O, in the manner described; 4th. Combination of the arms H, G, slides B, C, flange or lip E, pin a, guide-rod F, and pin B, connecting rod I, and eccentric K; 5th. The cog wheel A, having a break or space at, in the face thereof in combination with the pinion D, pin g, and arm J; 6th. The wheel E, spring J, and pin g, in combination with the pinion D, cog-wheel A, and arm J; 7th. Making from a single bar of heated iron two coupling-pins with solid heads and collars thereon at one continuous operation by upsetting the metal by means of the slides B, C, and B, C, operating laterally on each side of the dies N, O, and then by compressing or swaging to form the heads and collars between said dies as set forth.

No. 3351. WILLIAM HESTON and JOSEPH W. SABIN, Akren, Ohio, U. S., 27th April, 1874, for 5 years: "Rubber Packing for Piston Rods, &c." (Garniture en caoutchouc pour les tiges de pistons, &c.)

*Claim.*—The packing described as a new article of manufacture constructed as described.

No. 3352. EGERTON R. SHOREY and RUFUS A. SHOREY, Napanee, Ont., (Assignees of Abiel O'Dell), 27th April, 1874, for 5 years: "Improvements on Washing Machines." (Perfectionnements aux machines à laver.)

*Claim.*—1st. The combination of the adjustable sliding clamp B, and spring E, with the tub or vat O; 2nd. The clamp G, and clasp H, applied as set forth for securing the washer to the tub by the facings B; 3rd. The employment of rollers J, corrugated circumferentially in combination with a corrugated roller I; 4th. The facing B, having slots C, for receiving the ends of the clamp B, and a suitable opening to prevent clothes entering the ends of the rollers; 5th. The concave bottom M, applied as set forth.

No. 3353. THOMAS B. WARRELL, Philadelphia, Penn., U. S., 27th April, 1874, for 5 years: "Improvements on Bank Locks." (Perfectionnements aux serrures de banques.)

*Claim.*—1st. A series of racks carrying locking bolts and moving in four different directions when operated by the same spindle as described; 2nd. The dog L, in combination with the driving rack K, and combination wheels G; 3rd. The moving of the dog L, and locking bolts simultaneously as described; 4th. The construction of the dog in two pieces, held together by means of the screw bolt or its equivalent when by the separation of the lower from the upper piece, the dog is separated from the actuating rack K, and thus its connection with the locking bolts is severed; 5th. The enlargement on the front end of the dog L, to prevent its being forced inwards by a burglar; 6th. The supplementary dog L<sub>2</sub>, in combination with the gear wheel P, and dog L, to prevent a burglar feeling the combination by means of the principal dog at each revolution of the dial; 7th. The dog L<sub>2</sub>, and wheel P, or any other device which will keep the principal dog out of connection with the combination wheel for two or more revolutions of the dial; 8th. One or more idler wheels R, driven by the same spindle as the combination wheels; 9th. The annular head or projection a, on the outer corner of the dial to intercept the view of the figures on the periphery of the latter; 10th. The construction of the dial B, in two pieces for facilitating the removal of that part containing the figures; 11th. The tappets H, constructed as represented when their projecting ends are about the same width as the divisions b, on the peripheries of the combination wheels G; 12th. The construction of the dial spindle C, with a double cone enlargement p, having a cap q.

No. 3354. JOHN B. FARR, Woodbridge, Ont., 27th April, 1874, for 5 years: "Improvements on the 'Raymond Sewing Machine.'" (Perfectionnements à la machine à coudre dite "de Raymond.")

*Claim.*—The combination of the straight motion D, take up lever E, needle bar F, clot G, and check spring H.

No. 3355. WILLIAM T. BUNNELL, Ottawa, Ont., 27th April, 1874, for 5 years: "Improvements on Washing Machines." (Perfectionnements aux machines à laver.)

*Claim.*—1st. A removable bottom or wash-board for washing machine; 2nd. In combination with washing machines having a semi-circular frame or tub A, the removable bottom or wash-board C, having bars, ribs, corrugations or rollers H, as described.

No. 3356. JOHN A. McMARTIN, Montreal, Que., 27th April, 1874, for 5 years: "Apparatus for Elevating Water, Earth, Ores, &c." (Appareil pour élever l'eau, la terre, les minerais, etc.)

*Claim.*—The toggles D, actuated by lever H, provided with brace I, pivoted to piece A, and provided with roller F, working in oblique slot G, as set forth.

No. 3357. CHARLES PARKER and DEXTER W. PARKER, Meriden, Ct., U. S., 27th April, 1874, for 15 years: "Improvements on Claw-hammers." (Perfectionnements au marteau brette.)

*Claim.*—1st. A cast metal hammer having the head formed from wrought metal and united in the process of casting, as specified; 2nd. A cast metal hammer with wrought metal face a, attached to the claw by the process of casting as specified.

No. 3358. JOSEPH W. STRANGE, Bangor, Me., U. S., 27th April, 1874, for 5 years: "Improvements on Churns." (Perfectionnements aux barattes.)

*Claim.*—1st. In combination with a rotary dasher a train or series of differential gears, or their equivalents, and in immediate agency whereby the dasher is driven with a greater or less degree of speed; 2nd. Turning the hubs of the gears of a uniform size to receive the crank and orienting upon each a notch or its substitute for confining the crank to it; 3rd. The crank provided with the spring latch K, to operate in connection with the notches f, and be interchangeable with each gear hub.

No. 3359. HAMBILTON S. DAVIES, Camden, N. J., U. S., and SAMUEL PANCOST, Hamilton, Ont., 27th April, 1874, for 5 years: "Improved Guard for Interfering Horses." (Entraillon perfectionné pour les chevaux qui s'entretailent.)

*Claim.*—The elastic-pad A, having inner and outer flanges a, b, and adapted to the shoe, as set forth.

No. 3360. JAMES GOOD, Toronto, Ont., 27th April, 1874, for 5 years: "Improvements in Street Culverts and Waste Water Drains." (Perfectionnements aux égouts de rues et fossés d'écoulement.)

*Claim.*—1st. The peculiarly shaped foot B<sub>1</sub>, in combination with the angled trap D; 2nd. The weighted valve B, pivoted within the leg L, of the culvert in combination with the ledge b<sub>1</sub>, cast upon two sides of the culvert leg B, as described.

No. 3361. JACOB W. DAVIS, San Francisco, Cal., U. S., 27th April, 1874, for 5 years: "Fastening for Seams." (Arrête-couture.)

*Claim.*—The rivet, eyelet or equivalent metal stud b, for fastening the commencement or termination of seams in sewing as described.