

No. 3527. HENRY GROSS, Cincinnati, Ohio, U. S., 8th June 1874, for 5 years: "Improvements on Mail Bags." (Perfectionnements aux valises à lettres.)

*Claim.*—1st. For a mail bag or analogous use in the barrels sockets G and hooks H, connected and operating as specified; 2nd. The combination of plate I, frame J and spring K, for enclosing card M, as specified; 3rd. The notched or grooved stud N, perforated case O, T, and bolt V, W, operating in connection with suitable bolt, throwing and locking tumblers, as specified.

No. 3528. FRANCIS W. BECKWITH, Merrickville, Ont., 8th June, 1874, for 5 years: "Improvements on Washing Machines." (Perfectionnements aux machines à laver.)

*Claim.*—1st. The strappers F, supporting the axial pins of the rollers B B, suspended by connection with the spring G; 2nd. The U-shaped springs G, curving over the axial pins D, with or without the block I; 3rd. The stay frame H, applied to the ends of the washer for bracing the side pieces A, and base, and to form a bearing for the shaft of the roller C, as set forth.

No. 3529. JAMES BENNET, Saint John, N. B., 8th June, 1874, for 5 years: "Improvements on paper fyles." (Perfectionnements aux serrepapier.)

*Claim.*—1st. A paper-fyle having a clamp so connected that it and the bed-plate operate the same as the parts of a parallel ruler in combination with the holding pins as described; 2nd. The parallel joint-bars C, C, in combination with the bed A, and clamp as described; 3rd. The metallic strip E, disc nuts and holding pins D, D, in combination with the bed and clamp of a paper fyle, as described; 4th. The recesses G, G, and mortises J, J, in combination with the bed A and clamp B, as set forth.

No. 3530. BENJAMIN WARD, Dundas, Ont., 8th June, 1874, for five years: "Improvement in Knitting Machines." (Perfectionnement des machines à tricoter.)

*Claim.*—A longitudinal presser F, arranged and adjusted in the stand E, or otherwise, for pressing the bars of the needles from the sinker wheel D, to the landing wheel G in combination with a spring needle circular knitting machine, as specified.

No. 3531. ELISHA NEWCOMB, Westbrook, Me., U. S., 8th June, 1874, for 5 years: "Car-Replacer." (Appareil pour remettre les wagons sur la voie.)

*Claim.*—The combination of the two parts A and B arranged and constructed as described, and the brace D, to hold the part A in position, as set forth.

No. 3532. JOHN BRADLEY, New York, U. S., 8th June, 1874, for 5 years: "Improvements in Apparatus for Ventilating." (Perfectionnements aux appareils de ventilation.)

*Claim.*—1st. The sliding sash A in combination with the adjustable glass bearing sash B, the two being constructed, connected and operating in the manner described or in any manner equivalent thereto; 2nd. The combination of the sliding sash B, the adjustable sash C and the toggles or links d; 3rd. The combination of the adjustable sash when provided with the toggles or links, or their equivalents and the supporting sill I; 4th. The hood H constructed with the flange or gutter as described; 5th. The hood H combined with the adjustable sash; 6th. The disc a in combination with the bolts E, E, when either or both are curved, as described; 7th. The plate / having the raised lip or flange A in combination with the operating handle c; 8th. The plates p p enlarged at their ends in combination with the links, as described; 9th. The screens L constructed and arranged as described; 10th. The apron J; 11th. The combination of the sliding inner sash B, the outer sash C, the apron J, and the sill I and screen L, as described.

No. 3533. JOHN W. MEAKER, Detroit, Mich., U. S., 10th June, 1874, for 10 years: "Improvements in Hoistways for Stores, Factories and other Buildings." (Perfectionnements aux éleveurs pour les magasins, fabriques et autres bâtiments.)

*Claim.*—1st. In an elevator for stores, factories and other buildings, the combination of the carriage G, provided with the cams O and K, and the cross-bars F, with the gate M, provided with a crank arm d, the doors D D, bars J, levers H, H, and lift cover E, constructed and arranged to operate as set forth; 2nd. The combination of the cam plate O, attached to the carriage G, with the crank arm d, gate bar M, and gate spring constructed as described; 3rd. The combination of the flanged cam plate K, with the levers H H, bars J, and doors D D, the cam being attached to the carriage, and the levers and doors being provided with the studs, flanges and crank arms, as described; 4th. The lift cover E in combination with the cross bars or frame F, attached to the upper end of the carriage G, as described for opening and closing the upper hatchway of a hoistway, as set forth.

No. 3534. SCRATES SCHOFIELD, Providence, R. I., U. S., 10th June, 1874, for 5 years: "Improvements on Saws for Logging." (Perfectionnements aux scies à billots.)

*Claim.*—1st. The combination of two saws A A' arranged side by side for operation in the same kerf; 2nd. The combination of the saws A A' with a holding guide B, 3rd. The combination of the saws A A' with a holding guide B, shaft E, opposite cranks C, C, and connecting rods D, D, as described.

No. 3535. JAMES DAWSON, Greenwood, Ill., U. S., 10th June, 1874, for 5 years: "Improvements on Machine for Cutting Bolts." (Perfectionnements aux machines à couper les boulons.)

*Claim.*—1st. The cutting jaws D D, constructed as described, in combination with the spring /, and operating cam a, on the end of the pivoted lever C; 2nd. The sliding block h, arranged between the upper cutting jaw D, and the operating cam a; 3rd. The combination of the bar A, with arms B B, and ends b b, cutting jaws D D, spring /, lever C, with cam a, handle G, loop E, r, wedge i, all constructed as set forth.

No. 3536. ALONZO C. RAND, Minneapolis, Min., U. S., 10th June, 1874, for 15 years: "Improvements on Gas Retorts." (Perfectionnements aux cornues à gaz.)

*Claim.*—1st. A gas retort provided with an interior vaporizer; 2nd. The combination of a test or pet cock b, with the stand pipe of a gas retort.

No. 3537. EZEKIEL W. BARKER, Portland, Me., U. S., 10th June, 1874, for 5 years: "Car-coupling." (Attelage de wagons.)

*Claim.*—1st. The device B, when constructed as described and operated in the manner set forth; 2nd. The combination in a draw head of the slotted plate c, with its heads f, g, the spiral spring b and the device B; 3rd. The combination in a drawhead having on its interior surface the projections l, n, of the slotted plate c, with its heads f, g, the spiral spring b, and the device B, as described; 4th. A drawhead having on its interior surface the projections l, n, for the purpose of holding the link in position for entering an approaching drawhead, as set forth.

No. 3538. FAYETTE HUNGERFORD, Rochester, N. Y., U. S., 10th June, 1874, for 5 years: "Improvement on Furnaces for Burning Oil and other Liquids for Generating Steam." (Perfectionnement des fourneaux consommant l'huile et autres liquides pour produire la vapeur.)

*Claim.*—1st. The combination of the fluids B, B', with the free space / and the water sheet a, between them, arranged as described for the purposes specified; 2nd. The combination with the fluid B B' of the water tubes E F, arranged and operating as described; 3rd. The combination with the boiler A of the separate water-head E, connected with the boiler by tubes or equivalent, which allow a free circulation of water to and from the water-head as described; 4th. The combination with the water head E and boiler A, of the tubes b, b, provided with the perforation n n; 5th. The trap s, in the oil pipe t, as specified.

No. 3539. GUNDER G. FELLAND, Hudson, U. S., 10th June, 1874, for 5 years: "Automatic Registering Grain Meter." (Compteur à grain à registre mécanique.)

*Claim.*—The meter attachment described consisting of the parts A, B, C, D, E and F, constructed and arranged as described and for the purposes set forth.

No. 3540. GEORGE I. COLBY, Reading, Mich., U. S., 10th June 1874, for 5 years: "Washing Machine." (Machine à laver.)

*Claim.*—The combination of the large crank roller D, with a roller bed of two or more smaller rollers H each of said small rollers being hung upon or supported by springs to allow of their independent movement to or from the large roller; 2nd. The end-boards A, A, provided with slots b, and holes f as described in combination with the roller bed and large crank roller; 3rd. The button hook G, in combination with the slotted end pieces A and crank E, of the roller D; 4th. The bottom cleat I, in combination with the end pieces A, and thumb screw J; 5th. The combination of the frame A, B, C, crank roller D, smaller independently operating rollers H, button hook G, cleat I, and thumb-screw, J, all constructed and arranged as set forth.

No. 3541. WILLIAM L. HORNE, Chicago, Ill., U. S., 10th June, 1874, for 5 years: "Machine for Regulating the Pressure of Gas and other Fluids." (Machine pour régler la pression du gaz et autres fluides.)

*Claim.*—1st. A valve for governing the flow of a fluid weighted by a column of liquid of greater specific gravity than such fluid, the