

plates form chute-extensions of the platforms, when the same are tilted as specified; 2nd. The levers E, E, and bar F, arranged in combination with the hinged sides f, and platforms D, to operate the same simultaneously; 3rd. The hinged check-plate G, arranged between the upright and projections a, a, of a "snow plough" as described.

No. 2612. ADDISON G. BRUSH, Susquehanna Depot, Penn., U. S., 12th August, 1873, for 15 years: "A Potato-digger." (Un extracteur à patates.)

*Claim.*—1st. The improved potato-digger, having the head A, with its end bent forward and holding the adjustable tines B; 2nd. The adjustable tines B, in combination with the head A, and wedges d; 3rd. A potato-digger, the adjustable handles a, having the elongated depending arms A1, and applied to the head A; 4th. The vine clearer L, connected and supported by the chains K, as specified.

No. 2613. EDWARD W. CARTER, Hamilton, Ont., 12th August, 1873, for 5 years: "Combined Tobacco Case, Cutter and Match Box." (Boite coupe-tabac et porte-allumettes combinés.)

*Claim.*—1st. The arrangement of the cutter C, in combination with the upper and lower portions A, and B, of the box operated by a hinged handle E; 2nd. The movable top or plate G, for feeding the tobacco to the knife as shown; 3rd. The sliding bottom H, in combination with the parts a, b, and knife C; 4th. The combination of the hinged handle F, with the cutter C, and opening K; 5th. The arrangement of the slots I, and J; 6th. The chamber E, combined with the other parts of the device.

No. 2614. CYRUS W. SALADEE, Pittsburg, Penn., U. S., 12th August, 1873, for 5 years: "Spring Tips for Carriage Poles, &c." (Emboutis à ressort pour les timons, &c.)

*Claim.*—The ferrule A, provided with the spring hook C.

No. 2615. ALVA WORDEN, Ypsilanti, Mich., U. S., 12th August, 1873, for 5 years: "Attachment to Steam Engine Lubricators." (Régulateur des graisseurs de machines à vapeur.)

The object being to enable the engineer to regulate and control the flow of oil out of the cup.

*Claim.*—The construction and arrangement of the cylinder A, tubular stem b, nipple C, provided with the valve seat A, the regulator cap D, provided with the seat A1, the spherical valve b, stem C, piston d, and spring e, with relation to any suitable lubricator cup.

No. 2616. JOHN H. ALLEN, Hinesburg, Vt., and FRED. W. BALDWIN, Potsdam, N. Y., U. S., 12th August, 1873, for 5 years: "Clothes Washing Machine." (Machine à laver le linge.)

Relates to an attachment to be placed in an ordinary wash boiler and consists in providing the central opening through which the water descends with raised or arched guards to elevate the clothes above said opening and also in the construction and arrangement of the guard plate, which lies below the same, thus preventing the water from rising except through the steam tubes.

*Claim.*—The improved clothes washer, consisting of the base A, having the central opening B, spanned by arched guards b, the concave water guard C, having flanges C1, and the bent or converging steam tubes D, all combined and arranged as herein specified.

No. 2617. JOHN S. KIDD & MARY L. MELVILLE, Brooklyn, N. Y., U. S., 12th August, 1873, for 15 years: "Culinary Pots." (Ustensiles de cuisine.)

*Claim.*—1st. In two or more pots nested or concentrated in a cluster and adapted for use in a single hole of a stove or in a cluster of special holes; 2nd. The combination with the said cluster of pots, of a cover F, for ordinary pot holes or a stove plate, having a cluster of holes E, corresponding to the cluster of pots; 3rd. A stove pot having a cluster of special holes E, for a cluster of pots grouped or nested together in the manner described.

No. 2618. EBENEZER E. GILBERT, Montreal, Que., 12th August, 1873, 5 years: "Valve Motion." (Tiroir régulateur.)

Consists in the addition to the main steam valve of an auxiliary valve receiving its motion from the piston rod pump or other convenient moving part of the engine and working continuously with it.

*Claim.*—1st. The auxiliary valve E, attached and moving simultaneously with the piston rod, or other principal part of the engine; 2nd. The auxiliary valve E, resting directly on the main slide valve C; 3rd. The arrangement of the passages f, A, and g,

through which the auxiliary valve E, distributes its steam in such a way that the action of the main valve C, cushions it by covering and opening the passages f, or A, which are re-opened by the continuous motion of the auxiliary valve E; 4th. The arrangement of the main and auxiliary valves C, and E, in such a manner that the motion of the main valve increases or fully opens the area of the distributing passages f, A, and g, of the auxiliary valve; 5th. The pistons D, D1, in combination with the main valve C, as described.

No. 2619. EUGENE CASGRAIN, L'Islet, Que., 12th August, 1873, for 5 years: "Stable Rack." (Râtelier d'étable.)

*Claim.*—Elle consiste dans un râtelier composé de la palissade A, des barreaux B, et des couverts D, construits de la manière et pour les fins décrites.

No. 2620. THOMAS TEMPLE, Fredericton, N. B., 12th August, 1873, for 5 years: "Railway Snow Plough." (Charrue à neige de chemin de fer.)

*Claim.*—1st. A snow plough having a slope from the nose a1, to the throat b1, of twenty-five degrees, constructed as set forth; 2nd. In combination with a "snow plough" the knives b, b, 3rd. In combination with the scraper C, and triangle d, and grub d1; 4th. The mode of attachment of the rail-scraper C, and triangle a, under the frame of the plough.

No. 2621. GIDEON W. COTTINGHAM, St. Mary, Texas, U. S., 12th August, 1873, for 5 years: "Fish and Animal Trap." (Trappe à poisson et à bêtes.)

*Claim.*—1st. A trap door or gate in which each wire or rod is hinged separately so as to give them an independent movement; 2nd. The trap door or gate consisting of the wires and sleeves c; 3rd. The gates b, c, eccentrically pivoted so as to close by their own gravity.

No. 2622. GIDEON W. COTTINGHAM, St. Mary, Texas, U. S., 12th August, 1873, for 5 years: "Oscillating Churn." (Baratte oscillante.)

*Claim.*—1st. The box or churn A, constructed as described and provided with the neck C, and diamond shaped dash F, the several parts being combined and arranged as set forth; 2nd. In combination with the elements named in the foregoing claim, the handles D, D1, and B, B1, B11, B111, and suspending cord as set forth.

No. 2623. DEANE STANLEY, Manchester, Eng., 12th August, 1873, for 5 years: "Hydro-pneumatic Motive Power." (Moteur hydro-pneumatique.)

*Claim.*—1st. The novel combination of "turbine water wheels" or other water engines A, with air pumps f, f, for compressing air, and vessels or accumulators h, h, for storing up or accumulating the air so compressed; 2nd. The utilization of the power so obtained by conveying it through main and branch pipes p, p, to work compressed air engines, situated at a distance from the river or other source of water power employed; 3rd. The construction of the air vessels or accumulators h, h, as described.

No. 2624. DANIEL S. MERRITT, Bay City, Mich., U. S., 12th August, 1873, for 5 years: "Sheet Iron Cutter." (Coupoir à tôle forte.)

*Claim.*—The combination and arrangement of levers E, F, and G, with the frame A and arm C for operating blade d, toward fixed blade B, as set forth.

No. 2625. CYRUS F. GILBERT, Sparta, Wis., U. S., 12th August, 1873 for 5 years: "Improvements on Brushes." (Perfectionnements aux brosses.)

*Claim.*—A brush consisting of two or more bars or strips A, secured together by bolts or screws C, and having the straw or bistles inserted between them as described.

No. 2626. M. JOHNSON, A. FEAS & W. G. HOATS, Three-Rivers, Mich., U. S., 12th August, 1873, for 15 years: "A Hoe." (Une houe.)

Consists in the construction of the head or blade with an upright cutter, a wing and mould board.

*Claim.*—The improved hand implement or hoe, having the side wings b, b1, arranged one in front of the other, and the upright cutter D, as specified.