

No. 3004. ALEXANDER RODGERS, Muskegon, Mich., U. S., 13th January, 1874, for 5 years: "Improvements in Balance-Cranks." (Perfectionnements aux volants à axes-condés.)

*Claim.*—1st. A balance crank, constructed as described; 2nd. The counter balance E, and key K, provided with the keeper m, in combination with the crank body A, shank D, and bolt G.

No. 3005. ALEXANDER RODGERS, Muskegon, Mich., U. S., 13th January, 1874, for 5 years: "Log Canting Machine." (Machine à rouler les pièces de bois.)

*Claim.*—1st. The canting levers B in combination with the lifting bars C, the latter being provided with cap c, connection Ci, and cross head d; 2nd. The bearing plates d, provided with pulley supports K, in combination with the guiding posts D, cross head a, bar G, with its attachments c, ci, and chain f; 3rd. The canting levers B, and their operating mechanism, in combination with the series of carrying-rolls A, or their equivalents; 4th. The canting levers B, the lifting bar C, and its attachments in combination with the chain f, and the frictional gearing for operating the same; 5th. A log carter composed of the elements set forth, all combined and arranged for joint operation in the manner specified.

No. 3006. JOHN S. ADAMS, (Assignee of John Colicott,) West Roxbury, Mass., U. S., 13th January, 1874, for 5 years: "Automatic Kaleidoscope." (Kaléidoscope automate.)

*Claim.*—1st. The revolving table m, actuated by ordinary clock-work machinery and placed in the kaleidoscope tube d; 2nd. The combination with the table m, and box a, of the rest c, standard b, socket e, and tube d; 3rd. The arrangement with the hub p, and arms s, of the stopples t, and glass chambers u, all actuated by the clock-work machinery within the box a; 4th. The combination and arrangement of the stopples t, attached to the arms s, by the spiral springs v, with the rods w, and bridge y; 5th. The arrangement of the revolving chambers v, with the revolving table m, both automatically rotating as set forth; 6th. The combinations of the regulator p, attached to the box as described, and having the notching q, with the pin or screw h, and lantern wheel k.

No. 3007. MERRITT HINE & HORACE P. DIBBLE, New Haven, Ct., U. S., 13th January, 1874, for 5 years: "Machine for Threading Bolts." (Machine à fileter les boulons.)

*Claim.*—1st. A bolt cutting machine in which the thread cutting dies are arranged in the ends of the levers as described, said levers constructed to receive and hold the interchangeable die-holders D, the said die-holders constructed to carry the dies F, and the said holders provided with means for adjusting the said dies; 2nd. The dies F constructed with the rib n and the holders D with a corresponding groove.

No. 3008. THEODORE F. CONKLIN, Fond-du-Lac, Wis., U. S., 13th January, 1874, for 5 years: "Improvements on Engine Smoke Stacks." (Perfectionnements aux cheminées de locomotives.)

*Claim.*—The fan-beaters G with feathers I rotated by means of screw-wheel D, and working in combination with concave cap F; 2nd. The fan-beaters G, carried on arms H, radiating from shaft B, and placed in and working in combination with any smoke stack.

No. 3009. JAMES PARKYN, Montreal, Que., 13th January, 1874, for 5 years: "Manufacture of Bran for Transportation, Storage, &c." (Préparation du son pour le transport, emmagasinage, &c.)

*Claim.*—1st. As a new article of manufacture in bran compressed to a solid and compact mass in such manner that no interstices shall exist between the particles forming the mass; 2nd. As a new article of manufacture, in bran compressed into a coherent or cohesive mass by the addition of moisture.

No. 3010. DANIEL T. CASEMENT, Painesville, Ohio, U. S., 13th January 1874; for 15 years: "Pressure Regulator for Fluids." (Régulateur de la pression des fluides.)

*Claim.*—A left valve L, with adjustable or variable weights P, or their equivalents, and a diaphragm I, arranged in a vertical pipe or case A having a removable cap or plug to afford easy access to the valve in combination with the supply pipe B, connecting with the fluid source and the delivery pipe E, for regulating, controlling and limiting the pressure and friction of fluids, the combination of two or more regulators and a special branch and cock with the supply pipe and the delivery pipe for the discharge of different

currents of different pressures from a constant source or one current of constant pressure from a variable source by differently weighted valves.

No. 3011. SAMUEL MCGEE, Madison, N. J., U. S., 13th January, 1874, for 5 years: "Combined Hub and Oil Box." (Moyeu et boîte à huile combinés.)

*Claim.*—1st. An oil-box or reservoir combining in its construction a central section A, threaded, and sections B and C, a nearly central oil chamber, and a packing box or collar B, the parts being constructed and arranged as set forth; 2nd. The combination of the cylinder A, caps B, and C and collared shaft F, the parts being arranged for regulating the end traverse of the axles.

No. 3012. JAMES HALLY, Valleyfield, Que., 13th January, 1874, for 5 years: "Apparatus for the extraction of Peat." (Appareil pour l'extraction de la tourbe.)

*Claim.*—1st. The spout or shield a with or without prolongation at a', and having division l; 2nd. The excavators i with shoulderers k and secured to endless revolving bands p; 3rd. The discs or cutters m with or without teeth on their periphery; 4th. The novel combination of the spout on shield a, with division l, endless bands p, passing over revolving drums b, c, and carrying excavators i and discs or cutters m, all arranged and working together as set forth.

No. 3013. FRANCIS CULHAM, Bosanquet, Ont., 13th January, 1874, for 5 years: "Machinery for operating Semaphore signals." (Mécanisme de signaux sémaphores.)

*Claim.*—The combination of the endless or double wire A, A, the signal arm B, lamp stand C, sleeve D, and lever G.

No. 3014. BENJAMIN BARTER, Faribault Minn., U. S., 20th January, 1874, for 5 years: "Machine for Dressing Flour." (Un bluteau.)

*Claim.*—1st. A machine for dressing flour, the combination of a bolt or shaker consisting of one grade or several grades of cloth, a brush or brushes to clean said bolt or shaker and a fan or its equivalent to assist in the operation of the dressing and cleaning; 2nd. The combination of a bolt or shaker covered with cloth of various grades arranged transversely to the direction of the travel of the flour to be dressed and by which it will be both graded and bolted, and a brush or brushes and a fan or its equivalent as described; 3rd. The combination in a flour dressing machine of a second shaker divided into longitudinal sections each of which is covered with bolting cloth but differing in degree or grade from each other to produce a second grading and cleaning of the flour with a brush or brushes and a fan or its equivalent as described; 4th. A machine for dressing flour the combination of a hopper C, an upper shaker or bolt provided with cloth of different grades arranged thereon transversely for grading and bolting and a lower shaker divided into longitudinal sections and covered with cloth and a series of brushes M, and a fan or its equivalent as described; 5th. The combination of one or more chambers J, with the shaker K, for holding the different grades of flour subject to an air current from a fan as described; 6th. The combination of the shakers D, and H, the brushes G, and M, openings B, and C, with the fan arranged to operate as set forth; 7th. The combination of the shaker K, and adjustable partition T, when constructed and arranged to operate as set forth; 8th. The combination with the fan U, zig-zag cloth V, perforated cover A, and shakers D, and K, when constructed and arranged to operate as set forth; 9th. The combination with the fan U, and shakers D, and K, the box and chamber W, provided with valves K, therein, for the purpose of regulating the air current as set forth.

No. 3015. JAMES DAVIS, JOHN ARMSTRONG & DAVID DAVIS, Pittston, Penn., U. S., 20th January, 1874, for 15 years: "Tanning Process." (Procédé de tannage.)

*Claim.*—The described process of tanning consisting in the application of the compound described, consisting of water, sulphuric acid, salt and alum, to the hides and skins before the introduction of tanning extracts as described.

No. 3016. EDWARD E. BREWER, Douglas, N. B., 20th January, 1874, for 5 years: "A Churn." (Une baratte.)

*Claim.*—1st. The combination of the dashers C, C, and paddles D, D, 2nd. The shape of the churn A.

No. 3017. JOSEPH SLATER & HENRY S. BLATT, Sandy Lake, Penn., U. S., 20th January, 1874, for 15 years: "Sled Brake." (Frein de train.)

*Claim.*—The combination of sliding rod D, provided with claw P, and pivoted to arm C, of rock-shaft B, the lever G, and keeper E, all constructed and arranged as specified.