

No. 2257. GEORGE T. SMITH, Minneapolis, Minn., U. S., 18th April, 1873, for 5 years: "Machine for dressing flour." (Un bluteau.)

*Claim.*—1st In combination with the bolting surface of a flour bolt, through which a current of air is made to pass by means of an air chamber and fan or its equivalent; a brush or a series of brushes arranged to traverse the under surface of said bolt, substantially as and for the purpose set forth; 2nd. In combination with a reciprocating bolt and an exhaust fan or its equivalent, a series of air chambers E, F, G, when arranged above said bolt, and provided with separate air outlets and suitable valves or dampers for regulating the strength and velocity of the separate air currents passing upward through the bolt cloth; 3rd. In the brushes H, H, when attached to an endless belt, chain, rope or an equivalent of the same, and travelling in one direction on ways and around pulleys, as shown in combination with a reciprocating bolt upon the cloth of which they are made to impinge as described.

No. 2258. GEORGE T. SMITH, Minneapolis, Minn., U. S., 18th April, 1873, for 5 years "Machine for dressing flour." (Un bluteau.)

*Claim.*—1st In a flour dressing machine, a shaker C, C, divided into longitudinal sections, the cloth in one section differing in fineness from that in the other section or sections for receiving and bolting flour of different grades; 2nd. In combination with a reciprocating flour bolt divided into sections, an upper transverse feeding bolt which receives the meal and delivers it to the lower bolt in different grades of fineness; 3rd. In combination with the shaker the inclined wing board e, e, for the purpose of increasing the draught of air at the throat, through which the bran passes after leaving the bolt; 4th. The combination with the shaker, the brushes F, crank wheel E, and pitman f.

No. 2259. ALFRED RICHARDSON, London, Ont., (Assignee of Thomas F. Nicholl,) Denver, Col., U. S., 18th April, 1873, for 5 years: "Improvement on Washing Machines." (Perfectionnement des machines à laver.)

The washer is made of sheet tin, having an upper and two lower flanges, either straight or curved, and proportioned to the size of the boiler. The water boils from the centre of the boiler upwards on the inside of the washer returning on the outside to the bottom and forms a complete circuit, rendering the ordinary hand rubbing unnecessary.

*Claim.*—The washer B, upper flange C, lower outside flange D, and inside flange G, and the manner in which washer B, is constructed and applied for the purpose of self-washing.

No. 2260. DAVID WATSON, London, Ont., 18th April, 1873, for 5 years: "Process for separating and recovering the waste alkali or caustic soda used in the refining of coal oil." (Procédé de réification de l'alkali ou de la soude caustique employé dans le raffinage du pétrole.)

*Claim.*—1st. The recovery of the soda in the application of heat to the black liquid in an iron vessel, until the density ranges from 30 to 55 degrees Baumé's hydrometer; 2nd. The application of saltpetre to the caustic lye for bleaching of the same; 3rd. The recovery of the lead in the further application of heat to the deposit or residue from first treatment, until the temperature ranges between 500 and 550 degrees Fahrenheit.

No. 2261. MATTHEW WAKEFIELD, Toronto, Ont., 18th April, 1873, for 10 years: "Slide Valve Reliever." (Boîte supplémentaire de tiroirs de vapeur.)

*Claim.*—1st. The attachment of the cylinder A, to the top of the valve chest; 2nd. the combination of the piston B, connecting rod D, and slide valve C.

No. 2262. JONATHAN MILLER WATKINS and JOHN X. TUCKER, Buffalo, N. Y., U. S., 18th April, 1873, for 5 years: "A Tea and Coffee Press." (Appareil pour l'infusion du thé et du café.)

*Claim.*—1st. The combination with the tea and coffee reservoir A and water receptacle c, of the closed and perforated press cup E, suspended from the latter; 2nd. The combination with the coffee reservoir A, water receptacle c, and filtering cup E, perforated at the top and bottom of a tight deflecting cone f, arranged at the latter; 3rd. The arrangement with the closed filtering cup E, provided with the deflecting cone f, of secondary cone g, perforated at the base; 4th. The combination with the flanged cover D, d and receptacle c, of the yielding ring b, secured to the latter and forming a V-shaped seat for the flange of the cover; 5th. The combination with the closed water boiler N, and liquid receptacles A, A, of the depressed cup q, perforated at the bottom for receiving the displaced water.

No. 2263. MALCOLM FRASER, Sutherlands River' N.S., 18th April, 1873, for 5 years: "A Solar Compass Dial." (Un cadran solaire.)

*Claim.*—1st. The hour circle B, and quadrant C, each having scales of degrees thereon, and adjustable on a base and pedestal A; 2nd. The declination arch E, inscribed with degrees and hour pointer J, centrally pivoted to the hour circle b, 3rd. The sun pointer F, pivoted to the declination arch E, and provided with a shadow indicator or disc H; 4th. The combination of the sun pointer F, declination arch E, hour circle B, quadrant C, and base A, all arranged and operating as set forth.

No. 2264. JOHN DENNIS, Newmarket, Ont., 18th April, 1873, for 5 years: "Fan Pier Bridge." (Pile de pont en éventail.)

The object of the invention is to spread the supporting power more broadly under the bridge or weight to be supported and at the same time to reduce the foundation, and also the obstruction in the water way to a minimum.

*Claim.*—1st. The spreading of the bents in the form of a fan; 2nd. The introduction of the oakum or other similar material saturated in coal tar and the box of tar into the mortise s, 3rd. The throat or gutters d, combined w. ' the throat p, also the weathering t, combined with the throat g; 4th. In the aprons f, combined with the throat or gutter d.

No. 2265. MOLT B. BROOKS, Brockville, Ont., 18th April, 1873, for 5 years: "A Revolving Extension Table Top." (Tablier de table à rallonge à révolution.)

*Claim.*—An improved table top revolving on the centre of the frame with hinged leaves, which may be folded upon the frame as shown b b, and c c, fig. 2, or turned down into position for use as shown in the dotted lines b b and c c, fig. 2, or extended the whole size of the leaves as shown in fig. 1, by turning the top at right angles to the frame, also in the support bars D D, in combination with the revolving top, the whole as described.

No. 2266. JOSEPH B. SARGENT, New Haven, Ct., U. S., (Assignee of William E. Sparks), 18th April, 1873, for 10 years: "A Door Bell." (Une sonnette de porte.)

*Claim.*—1st. In combination with the bell, hammer and escapement for operating the hammer, the lever J, N, one arm of which extends within the periphery of said bell, so as to operate said escapement which with the hammer is also within the periphery of the bell, the other arm being outside the door to serve as a pull. 2nd. In combination with the arm D, of a bell hammer the lever E, and sliding piece F, operating to raise the bell-hammer and allow it to escape.

No. 2267. JOSEPH BROTHERS, Milton, and WILLIAM DOWNS, Trafalgar, Ont., 18th April, 1873, for 5 years: "A Threshing Machine" (Machine à battre les grains.)

For more effectually agitating the straw as it passes through the machine and separating the grain from it than by any other process now in vogue.

*Claim.*—1st. The arrangement of the first grain belt I, running on the pulley F, and shaft D, as shown in combination with a grain separator; 2nd. In combination with the canvas-belt I, the arrangement of the picker B, and drop H, as specified.

No. 2268. ALBERT E. BRAYMER, Chicago, Ill., U. S., 18th April, 1873, for 5 years: "Railroad Fish Plate Fastener." (Ajustage des éclisses de rails de chemin de fer.)

Consists in securing the fish plates to the rails by gibs and keys instead of by means of the customary bolts and nuts.

*Claim.*—The fish plates B, secured to the rails A, by the gibs C, and keys D.

No. 2269. JOHN DEWE, Ottawa, Ont., 18th April, 1873, for 5 years: "Machine for economizing fuel." (Appareil pour économiser le combustible.)

The machine being placed in, or affixed to a grate stove, or furnace with the open bottom, exposed to the draft, fills up a portion of the space occupied by the fuel, thereby decreasing the quantity burned whilst the air passing through the open end, and perforated sides perfects the combustion and increases the heat.

*Claim.*—The hollow iron or metallic box case, or cone open at the bottom or end a, and perforated at the sides b, of a shape and size adapted for the grate stove or furnace in which it is to be used.