

No. 2396. THOMAS FORFAR, Waterdown, Ont., 23rd May, 1873, for 5 years: "A Clothes Wringer." (Machine à tordre le linge.)

Claim.—The combination and arrangement of the several parts, namely the small roller B, in connection with the large roller D, for increasing the leverage power, the fluted shaft M, in the small roller for preventing the shifting of the rubber, the coil springs K, fitted inside of the frame for pressing the rollers to, also in the eccentric E, for holding the wringer on the tub, and the set screw for securing the handle on the shaft, all operating as set forth.

No. 2397. FREDERICK H. DATE, Niagara, Ont., 23rd May, 1873, for 5 years: "A Steam Gas Apparatus." (Appareil à gas à vapeur.)

Relates to improvements in that class of gas generating machines in which hydro-carbon vapor is generated by the heat of steam in a retort.

Claim.—1st. In combination with a retort B, the arrangement and combination of the supply pipe C, tube M, and casing tube T, enclosing the same, steam injection pipe E, and branch eduction gas pipe F; 2nd. The arrangement and combination with a gasometer A, and retort B, having the specified combination of a mixing chamber U, air induction valve D, lever arm H, connecting rod L, needle rod and needle valve operating as described whereby the excess and supply of gas for consumption is automatically regulated as set forth; 3rd. In combination with a gasometer A, rising and falling in a tank Y, the arrangement of the submerged air chamber or cylinder Z, within, and gas chamber S, below the tank and pipe W, connecting the gas chamber, with the gasometer, whereby an equalized pressure, in the distribution pipe, J, is maintained as set forth.

No. 2398. MYRON H. BOTSFORD, Sidney, Ont., 23rd May, 1873, for 5 years: "Machine for Washing Clothes." (Machine à laver le linge.)

Claim.—In the combination and arrangement of the case or cone A, the flanges C, and D, and the hollows or chambers E, and F, as and for the purpose set forth.

No. 2399. JAMES L. WILKIE, Woodstock, Ont., 23rd May, 1873, for 5 years: "Improvement on Boots and Shoes." (Perfectionnement des Chaussures.)

Claim.—The manufacture of boots and shoes, the application of an elastic piece C, secured to one of the quarters, and attaching to the opposite quarter by buttons, clasps, loops or other fastening device, with or without the intervention of the piece D, as set forth.

No. 2400. GEORGE W. SCOLLAY, New York, U. S., 23rd May, 1873, for 5 years: "Process of Preserving Animal Matter." (Procédé de conservation des substances animales.)

Claim.—1st. The blood of the animal, or the animal proteine compounds treated as set forth by which it is made or maintained in a fluid state, kept from separating or putrifying and rendered an antiseptic and preserving influence upon the animal meat or matter subjected to its action or influence; 2nd. The vegetable proteine compounds treated as set forth by which they are rendered antiputrescent, and an antiseptic and preserving influence upon animal flesh or tissue, treated with or subjected to its influence; 3rd. In immersing, packing or treating the carcass, flesh or tissues of the animal with or into the blood thereof or the proteine compounds animal or vegetable treated or prepared as described for the purpose of preserving the same; 4th. In preparing the carcass or meat of the animal for the more effectual preservation of the same, in or by the prepared blood, or proteine compounds or neutral solution by introducing in the arterial and venous systems thereof an antiseptic fluid, an antiseptic gas or vapor, either separately, or in combination, or a gas vapor or fluid which being so introduced will unite with and exert an antiseptic and preserving influence upon the flesh or tissues, of the body or any part thereof; 5th. In combining the internal and external application of the aforesaid antiseptic influence, to animal matter, for the purpose of preserving the same.

No. 2401. MARTIN P. HAYES, Seaforth, Ont., 23rd May, 1873, for 5 years: "Tubular Brine Evaporator." (Evaporateur d'eau de mer tubulaire.)

Claim.—1st. In the application to the underside of the fire chambers of an evaporating furnace of connected metal pipes or food tubes B, arranged under the grate bars A, for heating brine in its passage to the evaporating pans; 2nd. In constructing the fire chamber of an evaporating furnace with connected hollow bars, or tubes E, to serve as fire bars, and through which to pass the brine before admitting it to the evaporating pans D, as set forth.

No. 2402. RICHARD N. ALLEN, Pittsford, Vt., U.S., 23rd May, 1873, for 5 years: "A Railway Car Wheel." (Une roue de wagon de chemin de fer.)

Claim.—1st. In a cast-iron tire having an annular flange or web B, in combination with the corresponding annular paper filling or

packing C, of plates D, D₁, and hub H; 2nd. In the construction of railway car wheels the filling or packing C, of, in combination with a tire and hub; 3rd. In a railway car wheel having paper filling or packing arranged between the tire A, and the hub H, secured together by suitable means as set forth.

No. 2403. FREDERICK OAKLEY, Toronto, Ont., 23rd May, 1873, for 5 years: "Machine for Washing Currants, &c. (Machine à laver les groseilles, etc.)

Claim.—In the combination of the perforated cylinder A, having moveable end C, with the tubes or rods H, together with axles or shafts D, E, and crank with adjustable bearings G, G, as described.

No. 2404. JAMES STONE, London, Eng., 4th June, 1873, for 5 years: "Apparatus for Economizing Heat." (Appareil pour économiser la chaleur.)

For the purpose of heating buildings or rooms, the main portion of the apparatus consists of two suitably shaped vessels or receptacles, one of which is placed within the other, the space between them with a layer of non conducting material composed of pounded carbonate of lime, glass or silica. The inner vessel is filled with water impregnated with starch, chloride of calcium or other suitable heat absorbing material which will not injuriously on the metal of which the apparatus is constructed.

Claim.—1st. In the outer vessel A, space C, filled with non conducting, or partially non conducting material, either in one or more layers, and one or more non conducting, or partially non conducting substances in combination with inner vessel B; 2nd. In the outer vessel A, space C, fire box E, flue or flues D, and chimney F, all arranged and working together as described.

No. 2405. JOHN S. ROBINSON, London, Ont., 4th June, 1873, for 5 years: "Petroleum Tar Burner." (Machine pour consumer le goudron de pétrole.)

Claim.—1st. In the formation of a steam chamber C, in an iron block, 2nd. In the extension of the tar nozzle one-eighth of an inch beyond the steam nozzle surrounding it; 3rd. In the insertion of short iron pipes and nozzles into an iron block as shown in figure 3.

No. 2406. STEPHEN F. GATES, Taunton, Mass., U.S., 4th June, 1873, for 5 years: "A Railroad Car Axle Box." (Boite d'essieu de wagon de chemin de fer.)

Claim.—1st. In the air tight oil-fountain forming a part of the axle box as described and arranged to regulate automatically the supply of oil to the axle through the agency of heat, the heat serving to force oil from the box by reason of the expansion of the oil or of the air and oil in the box; 2nd. In the glasses E, E, applied to the oil fountain of a car axle-box; 3rd. In the air tight oil fountain B, the plug screw K, or its equivalent, and the regulating feed valve H, or its equivalent, in combination with the aperture L, bearing B, and shaft A; 4th. In the pipe N, in combination with an air tight oil reservoir in or upon the car or platform, and with the axle-box as described.

No. 2407. FRANK BRAMER, Little Falls, N.Y., U.S., 4th June, 1873, for 5 years: "A Combined Wheel Harrow and Seeder." (Herse à avant-train et semoir combinés.)

Claim.—1st. In the main frame composed of the longitudinal bars A, and oblique transverse gang bar A₁, arranged as set forth; 2nd. In the combination with a wheel harrow of a seeding attachment having its seed distributor or agitator connected with and operated by the rotating axle or shaft of one of the wheel gangs or harrows as described; 3rd. In the construction of the pitman connection of the seed distributor and harrow wheel shaft of the parts J, J₁, J₂, to permit the adjustment of its length and angle as described; 4th. In the spools or thimbles L, provided with notches or perforated hubs or bosses or pins for securing the harrow wheels and causing their uniform rotation as described; 5th. In the removable seat socket O, applied to the frame bars A, as described.

No. 2408. ALLAN STIRLING, Troy, N.Y., U.S., 4th June, 1873, for 5 years: "Balanced Slide Valves." (Tiroirs de vapeur d'équilibre.)

Claim.—In the valve C, and balancing piston D, connected by a rod which has a central joint, the pivot of which stands at right angles to its bearings E, and B, at either end as specified.

No. 2409. GEORGE T. SMITH, Washington, D.C., U.S., 4th June, 1873, for 5 years: "Process of Making Flour from Middlings." (Art de faire de la farine avec les gruaux.)

Claim.—In the process of manufacturing flour from middlings by regrounding, rebolting and repurifying by currents of air substantially as set forth.