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INVENTIONS PATENTED.

NOTE.—Patents are granted for 15 years. The term of years for which the fee has been paid, is given after the date of the patent.

No. 33,822. Thill Coupling.

(*Armon de limonière.*)

Robert W. Campbell, Hamilton, Ont., 1st March, 1890; 5 years.

Claim.—1st. In a thill coupling, the thill G formed with a plane I, in combination with the combined plate c' and spring c, substantially as and for the purpose hereinbefore set forth. 2nd. The combination, in a thill coupling, of an axle clip having jaws F, the thill G formed with the plane I, and the construction of the plate c' and spring c, substantially as and for the purpose hereinbefore set forth.

No. 33,823. Sleigh Knee.

(*Courbe de traîneau.*)

William H. Spear, Humboldt, Iowa, U.S., 1st March, 1890; 5 years.

Claim.—1st. A sleigh knee composed of two parts, the first terminating in a circular disk united to the part at one side by a narrow neck in its own plane, and the second having a recess receiving and closely fitting said disk, whereby the two parts are articulated in a manner permitting limited motion in a single vertical plane only, substantially as set forth. 2nd. The combination, with the runner C and the beam K, of the plate I secured to said beam and bearing the integrally formed neck J and disk H, the knee body A provided with the recess in its upper end to receive said disk and bolted at its lower end to said runner, and the plate F retaining said disk in said recess, substantially as set forth.

No. 33,824. Grate for Burning Saw Dust and other Fuel.

(*Grille pour brûler le bran de scie et autre combustible.*)

James M. R. Kennedy, Shepherd, Mich., U.S., 1st March, 1890; 5 years.

Claim.—1st. In a grate for burning sawdust, the combination of the imperforate bed B, the distributing air chamber C having the annular rows of perforations c, the distributing pipes D underneath the bed, the vertical connections E with the distributing chambers, and the fan or blower, all constructed and operated substantially as described. 2nd. In a grate for burning sawdust, the combination of the imperforate bed B, the air distributing chambers C supported thereon and consisting of the spherical-shaped casting a provided with the annular row of perforations c, the annular flange b, the bed substantially as described.

No. 33,825. Hot Water Apparatus.

(*Calorifère à eau.*)

Thomas Doherty, Sarnia, Ont., 1st March, 1890; 5 years.

Claim.—1st. In a hot water apparatus, the above described regulating cover plates G, G, constructed and arranged so as to control the admittance of the heat of the fire through suitable apertures to the surfaces of the sections B, B, substantially as shown and specified. 2nd. In a hot water apparatus, the herein described arrangement of sections B, B, for securing the system of surface heating to all their parts and allowing of contract of same, substantially as shown and specified.

No. 33,826. Washing Machine.

(*Machine à blanchir.*)

James H. Coleman and Jacob S. Shafer, Hamilton, Ont., 1st March, 1890; 5 years.

Claim.—In a washing machine, the combination of a cap C having a slot G with opening, the projection F and the valve D with spring fastening I and button E, substantially as and for the purpose hereinbefore set forth.

No. 33,827. Treadle.

(*Marche.*)

Jno. B. Grimes, (assignee of Leonidas G. Woolley,) Grand Rapids, Mich., U.S., 1st March, 1890; 5 years.

Claim.—1st. The combination of two parallel shafts provided with cranks at each of their ends, two treadles each one connected to the two cranks at one end of the two shafts, gear wheels secured to the two shafts, a driven shaft and a wheel secured to the driven shaft and which meshes with the two gear wheels, substantially as shown. 2nd. The combination of two driven shafts provided with cranks set at different angles, two treadles mounted upon the four cranks, gear wheels attached to the driven shafts, and a driven shaft provided with a pinion which meshes with both of the gear wheels, substantially as described. 3rd. The combination of a suitable frame work provided with suitable bearings, the two driving shafts C and the driven shaft D, the cranks secured to the ends of the two driving shafts, the treadles which are mounted upon these cranks, the pinion secured to the driven shaft and meshing with the two gear wheels and a band wheel secured to the driven shaft, substantially as specified. 4th. The combination of the driving shafts, cranks secured thereto, and the treadles provided with bearings through which the cranks pass, the bearings of the treadles being cut away as shown at J, substantially as set forth.

No. 33,828. Storage Battery and Cut Out for the Same.

(*Accumulateur et commutateur.*)

Phoebus H. Alexander, Hyde Park, Mass., (assignee of Harry E. Dey, New York, N.Y.) U.S., 1st March, 1890; 5 years.

Claim.—1st. In a secondary or storage battery, the combination with the plates, of a sheet of flexible insulating material formed with grooves or corrugations into which the edges of the plates extend forming separate compartments or cells between each pair of plates and means for clamping the same sheet and plates together to form water tight joints, as set forth. 2nd. The combination, with an outer box or cell, of a lining or inner cell composed of the corrugated or grooved rubber sheet A on the bottom and two opposite sides, and the insulating sheets on the other sides, battery plates with their lower and side edges entering the grooves in the sheet A, and means for clamping or binding together the grooved sheets and the plates to form water-tight joints, as set forth. 3rd. The combination, with the box or cell B, of the corrugated or grooved sheet of rubber applied to the bottom and to opposite sides of the interior of the cell, the plates E with their lower and side edges entering the grooves in the said sheet, and means for clamping and binding together the sheet and the plates to form water-tight joints, as set forth. 4th. The improvement in the art of forming secondary battery plates, which consists in applying to the lead plates an active material in the form of a dry powder, then confining or retaining the material in place by a conducting support, then forming the material by an electric current while so confined, and then removing the support, as set forth. 5th. The improvement in the art of forming plates for secondary batteries, which consists in preparing lead plates with recesses or receptacles, filling the recesses with minium or its equivalent in the form of a dry powder, then placing said plates together with interposed sheets of felt or fibrous material moistened with a conducting solution, and then passing a current through the same to form the material, as set forth. 6th. A thermostatic cut out combined and associated with a secondary battery, in substantially the manner set forth, and adapted to be operated by the heat of the battery fluid when the temperature of the same rises to a given point, as set forth. 7th. The combination, with a secondary battery, of a cut out attached to a part of the battery capable of expansion as the result of a rise of temperature of the battery fluid, and adapted to be operated by such expansion, as herein set forth. 8th. The combination, with a secondary battery, of a band or strip having a different coefficient of expansion under varying temperatures from the material composing the jar or cell, and secured to said cell so as to be moved by the expansion of the same by the heating of the battery fluid, and a contact plate arranged to be encountered by the said strip or band, these parts being constructed as a circuit closer or cut out to divert the charging current from the battery when the fluid therein becomes heated. 9th. The com-