

No. 2270. DAVID CROWELL, Florence, Ont., 18th April, 1873, for 5 years: "Improvements in Vehicles." (Perfectionnements aux voitures.)

The invention relates to the construction of the wheel hubs, axles, and running gear of vehicles.

Claim.—1st. In constructing the hubs of the wheels in two parts, B, and D, the part B, having raised flanges to receive between them the spokes C, and the other secured thereto by bolts A; 2nd. In constructing the axle E, in two parts and connecting the ends by a thimble or sleeve K, one part having a rotary motion in the sleeve and collar J, the other keyed fixedly therein; 3rd. In providing the axles E, with recessed journals to run in boxes formed in the jacks H, which are secured to the braces or bounds T; 4th. In constructing the rear brace, with a tube or sleeve L, to receive the reach bar J.

No. 2271. ALVAN H. MOORE, Magog, Que., 18th April 1873, for 5 years: "A Washing Machine." (Une machine à laver.)

Claim.—A new combination of gearing or cog-wheels D, rollers C, and springs I, I.

No. 2272. EDWARD L. STEVENS, MILTON ANDERSON and HENRY R. FAWCETT, Sackville, N. B., 22nd April, 1873, for 5 years: "A Cooking Stove." (Un poêle de cuisine.)

Consists in changing or adapting the stove to burn hard and soft coal or wood.

Claim.—1st. The combination of the T ash pit, the front doors A, the vertical damper and shaker B, the hole in bottom of stove M, the grate figure 4, the air holes and buttons C, the damper with ratchet and pawl below the oven D, to burn coals with stoves having elevated ovens or ovens setting on top of stoves; 2nd. The combination of the T ash pit, the front doors A, the air holes and buttons C, and perforated bed plate figure 6, instead of the grate figure 4, and vertical damper to burn wood with stoves having elevated oven or ovens on top.

No. 2273. MARTIN RAE, Uphall, Linlithgow, Scotland, 22nd April, 1873, for 5 years: "Preparation of Fuel." (Préparation du combustible.)

Claim.—1st. The preparation of bituminous mastic from shale tar and the use and application of the same in conjunction with either coal dust, small coal, dress, coal slack, bituminous shale, spent shale, bituminous "blae," or coaly "blae," peat, spent tar, saw dust and coke breeze, all by preference in a state of division or with mixtures of two or more of the same for the preparation of fuel; 2nd. The novel combination and arrangement of the steaming vats A, distilling vats C, heated respectively by steam coils A₁ and C₁, or their equivalents condenser D, tank F and oil store tank G; 3rd. The hopper E, with rollers E₁, and heater H, with chains and scrapers G in combination with pipe A, pug mill I, and cock K; 4th. The fuel press B, acting in combination with double acting ram J, drying oven L, and travelling table M, or its equivalent; 5th. The combination of a roller press O, separator N, and shoot Q, with hopper E, and the other parts of the apparatus for the preparation of peat as described.

No. 2274. JACOB B. HUNSBERGER, ELIAS LATSHAW, DANIEL B. LATSHAW and JACOB LATSHAW, Vincent, Pa., U. S., 22nd April, 1873, for 15 years: "Dust Conveyer for threshing Machines." (Conduit à poussière pour les machines à battre.)

Claim.—1st. The combination with the shaker of a threshing machine, of the cap D, a dust conveyer, a suction fan, and a spout through which the dust is carried outside of the barn; 2nd. In combination with the fan and conveyer the adjustable spout I, which carries the dust outside the barn; 3rd. Combination with the feed and discharged openings of a threshing machine the dusting attachment described, consisting of the cap or caps, box or conveyer with flues or passages fan and spout constructed and arranged as and for the purposes set forth.

No. 2275. JOHN J. HABICH, Waterloo, Ont., 22nd April, 1873, for 5 years: "A Blind Fastener." (Ajustage des persiennes.)

Claim.—The combination of the grooved square bar A, with the slot B, and look C; 2nd. The combination of the grooved roller bar D, with slot E, and spring pin F; 3rd. The spring pin F.

No. 2276. MOSES W. DILLINGHAM, Amsterdam, N. Y., U. S., 22nd April, 1873, for 5 years. "A Broom Screw Ferrule." (Douille de balai à écrou.)

Consists in a ferrule constructed with a screw thread on its inner side and adapted to clamp over and screw into the butt of the broom straw, upon the handle holding the same securely and dispensing with the wires and tacks usually employed.

Claim.—The screw ferrule A, constructed and adapted for use in the manufacture of brooms as specified.

No. 2277. JAMES FINDLAY, Toronto, Ont., 22nd April, 1873, for 5 years. "Shaft Coupling and Fastening." (Ajustage des arbres de couche.)

Claim.—The application of friction rollers C, C₁, C₂, to metal collar B, adjustable collar D, and wheel or pulley P.

2278. CHARLES E. PATRIC, Springfield, Ohio, U. S., 22nd April, 1873. (Extension of Patent No. 238, N. B., for 5 years.) "Grain and Seed Drill." (Traceur pour les grains et les graines.)

Capable of planting and sowing all descriptions of grain at a uniform depth and of distributing the grains either thickly or thinly as may be desired by automatic arrangement affected by changing the gear of the distributing shaft which is actuated by the revolution of the ground or driving wheels.

Claim.—1st. The novel combination and arrangement of frame work A, ground or driving wheels B, seed box C, grain or seed distributors D, grain spout E, flexible conductor tubes F, ground tubes G, chains or analogous suspenders H, roller I, draw bars J, locking stud N, spiral spring O, pivot connections L, 2, 3, sliding hopper bottom P, bevelled blocks Q, side strips R, shafts S, gear wheels T, U, V, lever W, sector X, spring bar Y, lever Z, geared wheels A₁, racks A₂, cam B, lock N, guard V₂, pawl W, staple W₁, all working together or independently in the manner described; 2nd. The distribution in its novel combination and arrangement of side pieces A and B, wheel C, hub D, double flanged periphery E, projection F, conducting chamber G, boss H, chamber J, projections and recesses I, slots L, diaphragm M, all working together or independently in the manner described.

2279. LAFAYETTE I. STONE, Hatley, Que., 22nd April, 1873, for 5 years: "An Axle Set." (Devers d'essieu.)

Relates to a device by which the pitch of an axle may be determined according to the radius and disk of the wheel.

Claim.—1st. The arms A, and B, pivoted at one end, the latter provided with scales G and H, and operating as described, by which to determine the pitch of the axle; 2nd. The slotted segment plate D, and thumb screw device E, F, applied as set forth to the arms A and B, for securing the arms in an adjusted position as specified.

No. 2280. NELSON JOHNSON and GEORGE D. MAITLAND, Newmarket, Ont., 26th April, 1873, for 5 years: "Pump Log Coupling." (Assemblage des tuyaux de pompes en bois.)

Forming a collar or ferrule through which the pump rod works, preventing the rod from wearing the log, also enabling a smooth joint to be made on the outside so that no dripping water can find lodgment in the joints and rot the logs above water.

Claim.—The hollow metal coupling figs. 1, 2 and 3, formed of greater diameter in the centre than at the ends, with the flange D, round the outside of the centre.

No. 2281. MARY G. BRIGGS, wife of EVANS E. BRIGGS, Boston, Mass., U. S., 26th April, 1873, for 5 years: "Improvement in Gaiters." (Perfectionnement dans les guêtres.)

Claim.—The new gaiter as described, provided with the extension or toe-cap B, C, and the sole and heel openings E, F.

No. 2282. HUBERT LAFONTAINE, Montreal, Que., 26th April, 1873, for 5 years: "A Railway Turn-Table." (Plaque tournante de chemin de fer.)

The rings of balls resist the pressure of the weight of the engine placed on the platform, distributing the load and diminishing the friction on the travelling bearers.

Claim.—The combination of balls F, placed in concentric grooves on the foundations D, and the grooved saddles E.

No. 2283. JOHN MCFARLANE, Otterville, Ont., 26th April, 1873, for 5 years: "Machine for Cutting Bolts and Rivets." (Machine à couper les boulons et les rivets.)

Claim.—The combination of the lever A with the rest B, B, and the sliding bit or cutter D, in such a manner as to impart to the cutters D and B, an amount of power and a facility of application not yet attained by any machine or instrument now in use for the same purpose.