

No. 8419. Improvements in Threshing Machines. (*Perfectionnements dans les machines à battre.*)

John Cooper and Edward Poncar, Schoenberg Ont., 12th February 1878 for 5 years.

Claim.—1st. A covering for riddles and sieves of grain separately and cleaning machines, consisting of a series of wires C placed longitudinally or in the direction of the blast only and parallel to each other. 2nd. A grain and seed saving attachment for threshing and grain separating machine, consisting of the sieve C, inclined return board E and hinged blocking board G; 3rd. The grain and seed saving attachment C E G, in combination with the shoe of a threshing machine.

No. 8420. Apparatus for Manufacturing Soap.

(*Appareil a fabriquer le savon.*)

Joseph Barsalou, Montreal, Que., (Assignee of Edwin H. Gibbs, New York, U.S.) 12th February, 1878, (Extension of Patent No. 2080) for 5 years.

No. 8421. Apparatus for Manufacturing Soap.

(*Appareil a fabriquer le savon.*)

Joseph Barsalou, Montreal, Que., (Assignee of Edwin H. Gibbs, New York, U.S.) 12th February, 1878, (Extension of Patent No. 2080) for 5 years.

No. 8422. Improvements on Show Cases for Maps. (*Perfectionnements aux montres pour les cartes geographiques.*)

Anselme Blais, St. Anselme, Que., 16th February, 1878, for 5 years.

Revue.—10. L'Armoire elle-même construite de manière à préserver les cartes de toute souillure. 20. La manière dont les cartes sont suspendues dans l'armoire au moyen des boutons J, évitant ainsi de rouler les cartes et de les froisser. 30. Le ressort E servant à placer les cartes sur le chariot antérieur. 40. Les charriots et la manière dont ils glissent sur les lisses, et leur prolongement au moyen des cordons H. 50. Les lisses et leur prolongement servant au glissement des charriots; 60. Le support du prolongement des lisses.

No. 8423. Improvements on Sleighs.

(*Perfectionnements aux traîneaux.*)

Sebastian Giltzinger and Abel A. Crosby, Rondout, N.Y., U.S., 19th February 1878, for 5 years.

Claim.—A sled or sleigh, with its runners A and braces B B, constructed of a continuous or endless piece of metal, the front end of the runners terminating in a single regular curve a, which extends to the front of the body board, and the body board having grooves or recesses c c formed in its under side, within which recesses are secured the braces B B of the sled.

No. 8424. Improvements on Grinding Mills.

(*Perfectionnements aux moulins a mouler.*)

James A. Field, (Assignee of Theodore D. Powers), St. Louis, Mo., U.S., 19th February, 1878, for 5 years.

Claim.—1st. The driving wheel L in combination with the outer grinder G H having outturned flange K formed with a cog-gearing in its under side; 2nd. The stirring arm or breaker D, in combination with the outer and inner graders A B and G H; 3rd. The outer and inner graders A B and G H, provided with thin ribs or blades at a b g q i inclined from the vertical; 4th. The outer grinder made in two parts G H, in combination with the adjusting screws h i q; 5th. The combination of the inner stationary grinder A B with the outer rotary grinder G H; 6th. The part B having teeth b the angle b of which is of varying height, in combination with graders G H; 7th. The part B having blades h, in combination with the part A having teeth a, varying in height; 8th. In combination of parts A B fitted together with a rabbit point A' and held by bolts a, 9th. The hub d of the stirring arm D having ribs d, and cylindrical block C having recesses for the reception of the ribs d, in combination with the screw E; 10th. The outer grinder G H, having arms I and collar J, in combination with the hub d, cylindrical block C, bearing b and screw E.

No. 8425. Improvements on Car-Coupling.

(*Perfectionnements aux attelages de wagons.*)

Herman J. L. Dette, Julius Cohen and Henry Millring, Buffalo, N.Y., U.S., 19th February, 1878, for 5 years.

Claim.—1st. The draw-head C, the coupling pin G, having the perforated parts B, the lever N pivoted within the bracket L of said draw head C, and the levers P pivoted to the car body A. 2nd. The mechanism for operating the coupling G, consisting essentially of the pivoted lever N, pivoted levers P P' and guide brackets S S' provided with the pivoted stop U. 3rd. The coupling pin G having the lateral projecting flange J.

No. 8426. Improvement on Portable Fences.

(*Perfectionnements aux clôtures portatives.*)

John D. Thomson, Rockport, Ont., 19th February, 1878, for 5 years.

Claim.—A portable fence composed of rails A each having two spreading legs B B inserted thereon, near one end, the other end to bear on the ground and set whereby the legs of one rail straddle the next rail the several rails being supported inclinedly and independently by the legs B.

No. 8427. Improvements on Curtain Rollers.

(*Perfectionnements aux rouleaux de rideaux.*)

John C. Lake, Camden, N.Y., U.S., 19th February, 1878, for 5 years.

Claim.—1st. In combination with a spring shade roller a pawl and ratchet so arranged that the former will engage with the latter upon simply pulling down the shade, and letting go of the latter without any special manipulation to effect the lock and will not engage when the shade is permitted to ascend slowly. 2nd. In combination with a spring shade roller, a pawl and ratchet so arranged that said pawl will, on the descent of the

shade at any speed, automatically assume such a position that it will engage with the ratchet and lock the roller on merely letting go of the shade, without any manipulation of the latter, and when the shade is permitted to ascend slowly will not engage with said ratchet. 3rd. In combination with a spring curtain or shade roller a pawl and ratchet or locking device that will lock the roller on the descent of the shade before the latter can ascend. 4th. In combination with a spring shade roller having an annular ratchet F, a pawl L having an elongated slot e, whereby said pawl may be slid back and forth to bring it into and out of position for engagement with said ratchet.

No. 8428. Improvements on Heating Stoves.

(*Perfectionnements aux poêles de chauffage.*)

Edward Stewart, Fort Madison, Iowa, U.S., 19th February, 1878, for 5 years.

Claim.—1st. The double lining forming a hot-air chamber about the bottom of the fire box, the indirect draft passage of which latter is between the said hot air chamber and wall of the stove; 2nd. The combination with the fire box provided with a double lining, forming the hot-air chamber of the indirect draft passage between the said double lining and the wall of the stove; 3rd. The hot-air chamber formed at the bottom and sides of the fire box, and communicating with the open air by lower feed and end exit passages, the said fire-box being provided with an indirect draft passage between the hot-air chamber and the wall of the stove. 4th. The combination with the damper and connecting rod, of the swinging stove-door communicating motion to the same, the said rod and door engaging by rack and pinion mechanism.

No. 8429. Improvements on Sleigh Bottoms.

(*Perfectionnements aux fonds de traîneaux.*)

Robert Armstrong, Portland, N.B., 19th February, 1878, for 5 years.

Claim.—1st. The combination of the runners A A and supporters S. 2nd. The combination of roller R with runners A A. 3rd. The combination of the roller R and bench B with perch P.

No. 8430. Draw Bar and Buffer for Railway Cars.

(*Tige de traction et tampon de wagons de railroads.*)

Allen Middleton, Philadelphia, Pa., U.S., 19th February, 1878, for 5 years.

Claim.—1st. The combination in a car frame, of the springs D D, bumper heads B B and a draw bar A having a head d at each of the ends which pass through the bumper heads. 2nd. The combination of the draw bar, bumper-heads and springs, with the longitudinal sills and cross-timbers E E, on which the pulling and bumping force is exerted.

No. 8431. Improvement in Railway Car Brakes.

(*Perfectionnement dans les freins des voitures de railroads.*)

Ames K. Hadley, New York, U.S., 19th February, 1878, for 5 years.

Claim.—1st. The brake plate C, shoe D and spring B. 2nd. The yielding faced brake C D E, toggle joint bars F F', knuckle bars G and actuating cogged wheel H.

No. 8432. Railway Track Cleaner.

(*Chasse-pierre de railroads.*)

James H. Miller, Frederickton N.B. 20th February, 1878 (Extension of Patent No. 2391.) for 5 years.

No. 8433. Improvements on Clothes Wringers and Washing Machines.

(*Perfectionnements aux essoreuses et aux laveuses à linge.*)

John Fee and Austin D. Cable, Montreal, Que., 20th February, 1878, for 5 years.

Claim.—1st. A wringer, in which the core of the rollers is longitudinally corrugated in even number and proportions to the surface corrugations of said rollers, when so corrugated. 2nd. In combination with wringer rollers, the rotary flanges C made of metal or other suitable material, and fastened at each end of either the upper or lower rollers B, but by preference to the latter. 3rd. In combination with a clothes wringer frame, the compression pin F having a flange f at the bottom end, and the rubber spring E at the flange end of the compression pin F, resting upon a metal or other suitable bearing, which bearing rests on the shaft of the upper roller of the wringer. 4th. The eccentric H with indentations I on the face, in combination with the compression pin F. 5th. The application of the eccentrics B, compression pin F with flanges f and rubber springs E, and of the rotary flanges C, in combination with washing machines made with rotary rollers.

No. 8434. Improvements on Lamp Heaters.

(*Perfectionnements aux chauffeuses à lampes.*)

Angus McKenzie, Toronto, Ont., 20th February, 1878, for 5 years.

Claim.—A portable lamp heater consisting of the heating chamber B provided with one or more mica lights and burners, and secured to the burner A by the ordinary chimney fastening C, the flue E and heating vessel D having a flat bottom, and provided with the projecting rim D'.

No. 8435. Improvements on Coat Measures.

(*Perfectionnements aux mesures d'habits.*)

Robert G. Mc Lellan, Guelph, Ont., 20th February, 1878, for 5 years.

Claim.—1st. The flexible band A of rectangular form, having straps I and D and check bar I' for securing the same in position on the body, provided with a pivoted arm C having stud G and studs A B B' rectangularly located, whereby measurements can be taken from said studs, when the band is adjusted to either side of the body. 2nd. A drafting square of one oblique and three rectangular edges, provided with eyelets A' B' G' corresponding relatively to the studs A B G, from whence the measurements of the band A are taken, and having thereon the tables and diagrams.