

**No. 8621. Improvements on Packing Rings for the Pistons of Steam Engines.***(Perfectionnements aux garnitures métalliques pour les pistons des machines à vapeur.)*

Loftus Perkins, London, Eng., 30th March, 1878 (Extension of Patent No. 2430), for 5 years.

**No. 8622. Improvement on Seeding Machines.**  
*(Perfectionnements aux semoirs.)*

Charles E. Patric, Springfield, Ohio, U.S., 6th April, 1878 (Extension of Patent No. 2217), for 5 years.

**No. 8623. Shaft Attachment for Carriages.**  
*(Ajusé de des l'ionnières des voitures.)*

George B. Stock, Toronto, Ont., 6th April, 1878 (Extension of Patent No. 2419), for 5 years.

**No. 8624. Apparatus for Manufacturing Nitro-Glycerine.**  
*(Appareil à fabriquer la nitro-glycerine.)*

Carl W. Volney, Brockville, Ont., 6th April, 1878 (Extension of Patent No. 2342), for 5 years.

**No. 8625. Improvements in Shingle Machines.**  
*(Perfectionnements dans les moulins à barreau.)*

Isaie Fréchette, St. Hyacinthe, Que., 6th April, 1878 (Extension of Patent No. 2239), for 5 years.

**No. 8626. Machine for Washing Dishes.**  
*(Machine à laver la vaisselle.)*

Emma S. Hampton, (wife of Charles G. Hampton), Detroit, Mich., U.S., 8th April, 1878, for 5 years

*Claim.*—The cage C, with its guard cage C<sub>1</sub>, and the dash B, in combination with the boiler A, and its perforated cover A<sub>1</sub>.**No. 8627. Improvements on Pumps.** *(Perfectionnements aux pompes.)*

Tronson Draper, Petrolen, Ont., 8th April, 1878 (Re-issue of Patent No. 8370.)

*Claim.*—1st. The pipe A attached either to the barrel B or pistons E, in combination with the weight F or its equivalent, 2nd. The barrel B provided with a check valve G, guide G and attached to the pipe A, in combination with the piston E, suction pipe D and weight F.**No. 8628. Improvements on Couplings for Shaftings.** *(Perfectionnements aux joints des arbres de couche.)*

John Charlton, Philadelphia, Pa., U.S., 8th April, 1878 (Extension of Patent No. 2473), for 5 years.

**No. 8629. Apparatus for Washing Wool.**  
*(Appareil pour laver la laine.)*

Oscar Low, Chelsea, Mass., U.S., 8th April, 1878, for 5 years.

*Claim.*—1st. In confining the wool within an arbitrary space and acting upon it, while thus confined with liquid under pressure, 2nd. The combination of a closed receiving chamber having suitable inlet and escape openings, with mechanism for forcing water or other liquids through said chamber under pressure, 3rd. The combination with a cleansing chamber and a receiver of suitable mechanism for forcing liquids into said chamber under pressure, whereby the wool is by the current or overflow wholly discharged from said chamber and deposited in the receiver, 4th. The combination of the tank A, chamber B and pumping mechanism R, having draft pipe a and injection pipe a; 5th. The combination with tank A and chamber B of the adjustable sluice-way g; 6th. The combination with tank A and sluice-way g, of the receiver f; 7th. The double diaphragm consisting of the metallic perforated plate b and the foraminous wire screen c, adapted to be placed in the top or bottom or both of the chamber B, 8th. The combination with the chamber B, having a perforated cover d, of the double diaphragm b c; 9th. The combination with a closed chamber having suitable opening for the escape of the liquor of a foraminous diaphragm placed near the bottom of said chamber above the injection pipe, 10th. The combination with tank A and chamber B, of the double diaphragm b c; 11th. The combination of the tank A, chamber B and adjustable sluice-way g, of the dog k, incline S and receiver f; 12th. The method of employing baskets in which to place the wool and placing these baskets in the apparatus, in lieu of depositing the wool directly therein in a mass.*(N.B.)*—For drawing of this number see diagram following 8685.)**No. 8630. Machine for Grinding Cutters of Mowers and Reapers.** *(Machine à affûter les couteaux des faucheuses-moissonneuses.)*

Edward J. Worcester, (co-inventor with Vernon F. Prentice), Worcester, Mass., U.S., 8th April, 1878, for 5 years.

*Claim.*—1st. A yielding grinding wheel or surface, in combination with a firm supporting rest adapted to support the back edge of the cutter-bar and indicate the proper bevel while the knife sections can be rocked towards or from said grinding surface and the point of grinding contact be thereby changed along the edge of the knife, 2nd. A grinding wheel rotating on a shaft capable of longitudinal reciprocative movement and held or pressed forward by a spring or equivalent yielding device, in combination with a head piece or rest for sustaining the cutter-bar in position while the knife sections are presented to grinding action against the disc face of the wheel; 3rd. The grinding wheel A made with conical grinding surface a and bevel periphery a<sub>1</sub>, in combination with mechanism for supporting the cutter-bar of a mower or reaper in a position oblique to the axis of revolution of wheel A, and with the knife sections projecting upwards for contact with the grinding surface a; 4th. The grinding wheel A made with grinding surface a on the disc of the wheel and bevel periphery a<sub>1</sub> in combination with one or more jaws or support j<sub>1</sub>es H, having corrugations, projections or grooves K; 5th. In combination of the grinding wheel A, shaft B, spring D, gears E F, head H and frame C c c<sub>1</sub>; 6th. The combination with the wheel A, grooves K, slide plate H<sub>2</sub> and adjusting screw I.**No. 8631. Improvements on Bed Bottoms.***(Perfectionnements aux fonds des lits.)*

Caleb E. Brown, Jackson, Mich., U.S., 8th April, 1878 (Extension of Patent No. 8108), for 5 years.

**No. 8632. Improvements on Bed Bottoms.**  
*(Perfectionnements aux fonds de lits.)*

Caleb E. Brown, Jackson, Mich., U.S., 8th April, 1878 (Extension of Patent No. 8108), for 5 years.

**No. 8633. Spring Catch for Seaming Blocks of Stone.**  
*(Crochet à ressort pour assujettir les blocs de pierre.)*

James H. Trickey, Hamilton, Ont., 9th April, 1878, for 5 years.

*Claim.*—1st. Two non corrosive metallic plates C and J counter-sunk in each block of marble, &c., respectively opposite one another, and fastened by solder P or screws Q in holes bored for the purpose in said blocks, the female plate C constructed with a socket E, central opening F, hole G, cone H and springs I I and holes D and the male plate J constructed with holes D and with wedge-shaped point projection K, containing hole L, the said projection made to fit the opening F of the plate C and secured therein by the bolts H; 2nd. In combination with blocks of marble, granite or other solid substances, of the plate C and J, constructed with four arms and holes D D or other form, the precise form of the plate not being essential; 3rd. In combination with marble, granite or iron blocks or other solid substances of the plate J, having projection K, and two elongated socket C provided with a recess F<sub>1</sub>, the same being secured together by a pin H<sub>1</sub> for forming building with marble, granite, slabs, &c.; 4th. The combination of the elongated socket C<sub>1</sub> and plate J<sub>1</sub> cast or made in one entire piece, for certain kinds of building work.**No. 8634. Improvements on Clothes Wringers.**  
*(Perfectionnements aux essoreuses à linge.)*

Cornelius E. Haynes, Boston, Mass., U.S., 11th April, 1878 (Extension of Patent No. 2253) for 5 years.

**No. 8635. Improvements on Middlings Purifiers.** *(Perfectionnements aux épurateurs de gruau.)*

David Charlesworth, Egmondville, Ont., 12th April, 1878, for 5 years

*Claim.*—1st. The combination of the suction fan M, operating by currents of air through the suction spouts L L, and through the sieves C L<sub>1</sub>, and controlled by the regulating valves I I I I and main valves K K; 2nd. The combination of the shaker and sieves C L<sub>1</sub> clothed with different grades of cloth, and the carrying boards D L<sub>2</sub> L<sub>3</sub> for carrying the purified middlings to the discharge spouts E E E and outlets F G H, and the regulating valves I I I I for offal, purified middlings and seconds; 3rd. The combination of the shal A, and the mode of building the same, in which the sieves C<sub>2</sub> and C<sub>3</sub> are used instead of return boards, the sieves distributing the middlings evenly.**No. 8636. Improvements on Lubricating Oils.**  
*(Perfectionnements aux huiles lubrifiantes.)*

Clark Johnston, Rochester, N. Y., U.S., 12th April, 1878, for 5 years.

*Claim.*—1st. A lubricating compound composed of petroleum or other oil, African palm wax, graphite, mineral, extract of petroleum and a suitable alkali; 2nd. The lubricating compound composed of petroleum, powdered graphite, mineral extract of petroleum, Japan wax, myrtle wax gambia wax and a suitable alkali.**No. 8637. Apparatus for Cutting Rock.**  
*(Appareil à couper le roc.)*

John D. Brunton, Kentish Town, Eng., 12th April, 1878, for 5 years.

*Claim.*—1st. Imparting to circular cutters a positive rotation by means of gearing arranged in the interior of the chuck, 2nd. The combination with a hollow chuck carrying a circular cutter or cutters having a positive motion imparted thereto by gearing situated in the interior of the chuck of means controlling and adjusting the speed of the cutter or cutters relatively to the speed of the chuck.**No. 8638. Journal Oil Box Lid for Railway Cars.** *(Couvercle de boîte à huile pour les essieux des wagons de railroads.)*

Francis C. L. G. Susemihl and Herbert H. Hewitt, Detroit, Mich., U.S., 12th April, 1878, for 5 years.

*Claim.*—1st. The cover C having flanged ends and a central rib J and provided with projections; 2nd. The cover C having projections c, in combination with the box A, having formed upon it the grooved ears B.**No. 8639. Machine for Washing Clothes.**  
*(Machine à laver le linge.)*

William H. Sanford, Moncton, N. B., 12th April 1878, for 5 years

*Claim.*—The combination with the conical part A and hollow stem or handle B, of the plug C, valve A and cross arms b.**No. 8640. Improvements on Refrigerators.**  
*(Perfectionnements aux garde-manger.)*

Thomas C. Phillips, Strathroy, Ont., 12th April, 1878, for 5 years

*Claim.*—1st. The combination with a double walled refrigerator of the rows of tapering dishes L, pan L and rack floor M, dividing the food from the ice-chamber and provided with troughs K, channel G and pipe H for carrying off the waste water, and water of condensation; 2nd. The ice-chamber provided with racks N around its vertical walls; 3rd. A refrigerator having a show-case extension R from one or more sides.**No. 8641. Preparation of Distemper Paint.**  
*(Préparation des couleurs à la détrempe.)*

George J. Stephens, Brooklyn, N. Y., U.S., 12th April, 1878, for 5 years

*Claim.*—A prepared dry kalsomine or distemper paint in rigid form of cake tablet, ball or other shape as an improved article of trade.