

No. 8598. Improvements on Ovens and Oven Doors for Stoves. (*Perfectionnements aux fourneaux et aux portes des fourneaux de poêles.*)

William C. Davis, Cincinnati, Ohio, U.S., 30th March, 1878, for 5 years.

Claim.—1st. A door for ovens of stoves and ranges constructed of two thicknesses of metal A B, including a chamber which is filled with plaster of Paris or equivalent non-conducting material; 2nd. The register C or its equivalent in combination with the chambered and filled oven door having an air ingress opening; 3rd. The oven door constructed as described and having a register, in combination with the oven of a stove provided with egress openings communicating with exit flues of the stove.

No. 8599. Improvements on Waggon Springs.

(*Perfectionnements aux ressorts des voitures.*)

William H. Haylock, Alonzo Benedict and John Higgins, Jonesville, N.Y., U.S., 30th March, 1878, for 5 years.

Claim.—The combination with side bars C divided in the middle, of the flexible plate D and spring E, connected at each end to the side bar sections and at the middle to each other.

No. 8600. Improvements on Pen-Holders.

(*Perfectionnements aux porte-plumes.*)

Joseph Reckendorfer, (Assignee of Joseph Hoffman and Cles W. Boman.) New York, U.S., 30th March, 1878, for 5 years.

Claim.—1st. A pen-holder formed of a single piece of sheet metal coiled into a pen-holder with outer barrel and inner nib, with a tongue on the one part engaging the other part, in such manner as to prevent the expansion of the outer barrel at the nib end, while leaving the nib free to yield. 2nd. A pen-holder formed of a single piece of sheet metal, coiled into a scroll or rolate with walls of double thickness throughout its length, the inner fold constituting the nib piece, being connected with the outer fold by a tongue or locking piece, to prevent said outer fold from spreading; 3rd. A pen-holder made from a blank, with or without the locking tongue a or its equivalent.

No. 8601. Improvement on Steam Exhausts.

(*Perfectionnement des soupapes d'aspiration.*)

George S. Brainerd, St. Albans, Vt., U.S., 30th March, 1878, for 5 years.

Claim.—1st. A sleeve having one or more relief discharge nozzles, in combination with the exhaust nozzle; 2nd. An exhaust nozzle for locomotives or other engines, surrounded by a hollow cone and having lateral ports communicating with the cone; 3rd. The combination of a movable cone B having the inwardly projecting sleeve C, with the nozzle A, each being provided with one or more ports.

No. 8602. Die and Swage for Making King Bolts. (*Matrice et étampe pour faire les chevilles ouvrières.*)

William Harris, London, Ont., 30th March, 1878, for 5 years.

Claim.—1st. The die C shaped to the outside of the saddle of the king bolt, to shape the outside of the saddle, and which die may be used either

in a solid piece of metal or in tongues A, or other similar improvement; 2nd. The die shaped to the inside of the saddle F of the king bolt to shape such tusk. 3rd. The combination of the die C and swage D, for shaping the saddle; 4th. The application of the die C and swage D respectively, and of the combination of them to tongue A, for the formation of the saddles of king bolts by hand labour.

No. 8603. Improvement on Oil Tanks.

(*Perfectionnements aux réservoirs à huile.*)

Ephraim A. Smead, Tioga, Pa., U.S., 30th March, 1878, for 5 years.

Claim.—1st. The trough e, for connecting the measures together, and having the holes g through it; 2nd. The combination of the pump c located inside the tank and adapted to raise the oil from the bottom of the tank into the measures with the tube h, connected therewith, whereby the tank may be filled or emptied through the tube. 3rd. The combination of the pump a valve that is operated from the outside of the tank, and a tube h; 4th. The combination of the pump c having the valves l Q, the pipe or tube h with the measures d, whereby the measures and tank may be filled from the barrel.

No. 8604. Machine for Washing Clothes.

(*Machine à laver le linge.*)

Patrick H. Cooney, Erie, Pa., U.S., 30th March, 1878, for 5 years.

Claim.—1st. The base plate E provided with enlargements and screw sockets H, in combination with the uprights C G having foot pieces and the bolts f, for attaching said parts together; 2nd. The springs F, in combination with the bolts f and hook f which are provided with lugs t, which act as harbs and retain said spring upon said parts f f f. 3rd. In combination with the circumferentially grooved roller B, the guard plate G with finger lugs g entering said grooves. 4th. The bolts f and hook f having lugs t. 5th. The end pieces C with spaces c, for receiving the ends of the guard piece G, in combination with said guard piece G; 6th. The bed piece E with end piece E, in combination with the lugs h h and jam nuts e; 7th. The combination, within a washing machine, of the corrugated roller A, circumferentially grooved roller B, guard piece G, with finger lugs g, base piece E with enlargements H, uprights C attached by bolts f f to said bed piece, tension springs F and hooks f, and variable end piece E.

No. 8605. Improvements in Horse Rakes.

(*Perfectionnements dans les râteliers à cheval.*)

Thomas Galloway and John Larzen, Oshawa, Ont., 30th March, 1878, for 5 years.

Claim.—1st. The tooth-socket B provided with upper and lower slots and bearing B. 2nd. The combination with the sockets B, of the capping pieces C provided with the capped ends, and secured by screw or bolt to the axle A, or its equivalent; 3rd. The rake teeth D, having the butt end D, in combination with the sockets B and capping pieces C.

No. 8606. Improvements in Cross-Cut Saws.

(*Perfectionnements aux scies de travers.*)

Silas Toles, Southwood, Ont., 30th March, 1878, for 5 years.

Claim.—The shaped and arrangement of the teeth marked A B.

List of Patents issued up to 18th April, 1878, but not yet Officially published in the Patent Office Record.

No. 8607. W. Burtis, New York, U.S.A., "Seal Bolt for Car Doors," 30th March, 1878.

No. 8608. S. A. Jenks, Lincoln, (Assignee of A. R. Sherman, Natick, R.I., U.S.A.), "Hydraulic Gate Operating Mechanism," 30th March, 1878.

No. 8609. S. B. Ferguson, Hallowell, Ont., "Cow Stanchion," 30th March 1878.

No. 8610. S. Selden and M. Griswold, Erie, Pa., and J. S. Crump, Westfield, N.Y., U.S.A., 30th March, 1878.

No. 8611. E. M. and A. Boynton, New York, U.S.A., "Saw," 30th March, 1878.

No. 8612. W. F. Diehl and L. H. Packard, Montreal, Que., "Ice Creeper," 30th March, 1878.

No. 8613. L. C. Bourgeois, (Assignee of F. Genio, Montreal, Que.) "Process for Manufacturing Paper Pulp from Straw, &c.," 30th March, 1878.

No. 8614. D. Manbeck, Des Moines, Iowa, U.S.A., "Medical Compound," 30th March, 1878.

No. 8615. G. T. Smith, Minneapolis, Minn., U.S.A., "Flour Dressing Machine," (Extension of Patent No. 2257,) 30th March, 1878.

No. 8616. G. T. Smith, Minneapolis, Minn., U.S.A., "Flour Dressing Machine," (Extension of Patent No. 2257,) 30th March, 1878.

No. 8617. G. T. Smith, Minneapolis, Minn., U.S.A., "Flour Dressing Machine," (Extension of Patent No. 2258,) 30th March, 1878.

No. 8618. G. T. Smith, Minneapolis, Minn., U.S.A., "Flour Dressing Machine," (Extension of Patent No. 2258,) 30th March, 1878.

No. 8619. G. T. Smith, Minneapolis, Minn., U.S.A., "Flour Dressing Machine," (Extension of Patent No. 2409,) 30th March, 1878.

No. 8620. G. T. Smith, Minneapolis, Minn., U.S.A., "Flour Dressing Machine," (Extension of Patent No. 2409,) 30th March, 1878.

No. 8621. L. Perkins, Seaford Street, Eng., "Packing Rings and Wearing Surfaces," (Extension of Patent No. 2430,) 30th March, 1878.

No. 8622. C. E. Patric, Springfield, Ohio, U.S.A., "Seeding Machine," (Extension of Patent No. 2217,) 6th April, 1878.

No. 8623. G. B. Stock, Toronto, Ont., "Draw-head and Shaft Attachment for Carriages," (Extension of Patent No. 2219,) 6th April, 1878.

No. 8624. C. W. Volney, Brockville, Ont., "Nitro Glycerine Apparatus," (Extension of Patent No. 2242,) 6th April, 1878.

No. 8625. I. Fréchette, St Hyacinthe, Que., "Shingle Mill," (Extension of Patent No. 2239,) 6th April, 1878.

No. 8626. E. S. Hampton, Detroit, Mich., U.S.A., "Dish Washer," 8th April, 1878.

No. 8627. T. Draper, Petrolia, Ont., "Pump," (Re-issue of Patent No. 8370,) 8th April, 1878.

No. 8628. J. Charlton, Philadelphia, Pa., U.S.A., "Shaft Couplings," (Extension of Patent No. 2473,) 8th April, 1878.

No. 8629. O. Low, Chelsea, Mass., U.S.A., "Process for Treating Wool," 8th April, 1878.

No. 8630. E. J. Worcester, (Assignee of V. F. Prouty, Worcester, Mass., U.S.A.), "Machine for Grinding Cutters of Mowers and Reapers," 8th April, 1878.

No. 8631. C. E. Brown, Jackson, Mich., U.S.A., "Bed Bottom," (Extension of Patent No. 8108,) 8th April, 1878.

No. 8632. C. E. Brown, Jackson, Mich., U.S.A., "Bed Bottom," (Extension of Patent No. 8108,) 8th April, 1878.