

# **No. 25,201. Desulphurising and Purifying Hydro-Carbon Petroleum Oils.** (*Désulfuration et Raffinage des Huiles d'Hydro-carbures de Pétrole.*)

Daniel M. Kennedy, Petrolia, Ont., 25th October, 1886; 5 years.

*Claim.*—The process of combining the sulphur in the oil with the metallic matter contained in a solution of about equal quantities of sulphate of copper (blue vitriol), caustic, soda and chloride of sodium, common salt, and then separating such combined metallic matter and sulphur from the oil by distillation or sulphuric acid treatment, substantially as and for the purposes hereinbefore mentioned;

# **No. 25,202. Perforated Wash-Board.**

(*Planche à Savonner Perforée.*)

George P. Fuller, Minneapolis, Minn., U.S., 25th October, 1886; 5 years.

*Claim.*—A wash-board, provided with a corrugated rubbing surface forming ridges separated by furrows or depressions, and holes or perforations provided in the ridges only for the circulation of air, the furrows being imperforate, and thus serving to retain a supply of suds, as set forth.

# **No. 25,203. Implement or Mechanism for Inserting a Cover in the Main Spring Barrel of a Watch or Time Piece.** (*Outil ou Machine pour Placer un Couvercle dans le Tambour du Grand Ressort d'une Montre ou d'un Chronomètre.*)

William W. Dudley, Waltham, Mass., U.S., 25th October, 1886; 5 years.

*Claim.*—The watch spring barrel head inserter, substantially as described, composed of the shanked head A, furnished with a handle *m* extending laterally from it, and with a cylindrical chamber *d* having in its side a mouth *e* and in its bottom a radial slot or groove *f*, as specified, the plunger B having a radial groove or slot *h* in its side *g*, and arranged within such head A, as represented, the spring *l* for elevating the plunger, and the lever C for depressing such plunger, all being arranged and to operate essentially as specified.

# **No. 25,204. Stove Door Handle.**

(*Loquet de Porte de Poêle.*)

James D. Whitlock, Richmond, Va., U.S., 25th October, 1886; 5 years.

*Claim.*—1st. The combination, with the handle and its attaching stem 2 and nut 3, of the wrapping 5 of asbestos around the stem, to prevent metallic contact and conduction of heat, as herein shown and described. 2nd. The combination, with the handle and its attaching stem 2 and nut 3, of a body of asbestos interposed between the attaching nut and the plate 1, to which the handle is secured, as explained. 3rd. The combination of the handle 7, stem 2, nut 3, asbestos washer 4 and metallic washer 3a, substantially as and for the purposes set forth. 4th. The combination, with the handle and a plate to which it is attached, of the attaching stem 2, nut 3, asbestos washer 4, asbestos washer 5, substantially as and for the purpose set forth. 5th. The combination, with the handle and plate to which it is attached, of the stem 2, nut 3, metallic insulating shield 6 and asbestos washer 8 between the metallic shield and handle, substantially as described. 6th. The combination of the handle 7, handle stem 2, nut 3, non-conducting asbestos shields 4 and 8, asbestos wrapping 5 and the metallic insulating shield 6, as shown and described. 7th. The combination of the handle 7, handle stem 2, nut 3, non-conducting asbestos shields 4 and 8, asbestos wrapping 5 and the metallic insulating shield 6, as shown and described. 8th. The combination of a handle having a stem and nut for attaching it to a stove or furnace door, or other plate, of a non-conducting, non-combustible envelope surrounding said nut, substantially as herein shown and described. 9th. The combination, with a handle and a plate to which it is attached, of the stem 2, nut 3, asbestos envelope 4, asbestos wrapping 5 and non-conducting metallic shield 6, substantially as and for the purposes set forth. 10th. The combination of a handle having a stem 2, a nut by which the handle is secured, metallic handle-base 7 and asbestos shield 9, the asbestos shield being interposed between the handle and handle-base, substantially as set forth. 11th. The combination of a handle 10, having a stem 2, handle-base 7, a nut by which the handle is secured, metallic insulating shield 6, envelope 4, having shield 5, supplemental handle 12 and asbestos non-conducting shields 9 and 11, substantially as set forth. 12th. The combination of a handle 10, handle-base 7, asbestos shield 9, stem 2, nut 3 and envelope 4, substantially as set forth. 13th. The combination of a handle 10, handle case 7, asbestos shield 9, stem 2, nut 3, envelope 4 and cap 14, having flanges 13, substantially as set forth. 14th. The combination of a handle 10, supplemental handle 12, asbestos shield 11, handle base 7, asbestos shield 9, stem 2 and nut 3, substantially as set forth.

# **No. 25,205. Stove. (Poêle.)**

William J. Copp, Hamilton, Ont., 25th October, 1886; 5 years.

*Claim.*—1st. The plate E, working in the guides G, G, or their equivalents, forming the bottom of the ash-pit when closed, and when drawn out emptying the ashes down into the receiver F, as described. 2nd. The receiver F working in the guides H, H, or their equivalents, under the ash-pan D, to receive the ashes from the pit D when the plate E is drawn, and said receiver being taken out to empty the ashes when required, and replaced again, as described, all operating substantially as and for the purposes set forth.

# **No. 25,206. Baby Carriage. (Voiture d'Enfant.)**

Irving L. Smith, Montreal, Que., 25th October, 1886; 5 years.

*Claim.*—The combination, with a baby carriage or like vehicle, of a sliding bar carried in rings, eyes or brackets secured to the carriage, and having a handle projecting therefrom, and stops, all as herein set forth and for the purposes described.

# **No. 25,207. Hinged Sleigh Kneec.**

(*Courbe de Traineau Encharnée.*)

John J. Gardner, Sault Ste. Marie, Mich., U.S., 25th October, 1886; 5 years.

*Claim.*—The combination, with the knee F and the angle-irons D, D secured thereto, as described, of the cross-beam E, the jaw A rigidly secured by bolts to said cross-beam and formed with arms *a*, *a*, the jaw G having arms *c*, *c*, embracing the arms *a*, *a*, the bolts *d*, *d*, passed through the cross-bar of the jaw C into the arms D; D of said angle-irons, and the removable bolt B passed through openings in the arms *a*, *a*, *c*, *c*, and pivotally connecting said jaws, substantially as shown and described,

# **No. 25,208. Sewing Machine.**

(*Machine à Coudre.*)

Frederick N. Cookson, Wolverhampton Eng., 25th October, 1886; 5 years.

*Claim.*—1st. In a sewing machine, and for the purpose of imparting an intermittent to-and-fro motion to the shuttle, the combination of a bell crank lever carrying the shuttle at the extremity of its longer arm, and making a loose connection at the extremity of its shorter arm by means of a stud and slot, with the extremity of a link receiving a corresponding intermittent but linear reciprocating motion from a second link with both of said links, said second link receiving a reciprocating linear motion of the same length as that of the needle from a cross-head common to both last-mentioned link and needle, both links and needle travelling in parallel planes, and the connection between the two links being by means of a slot in one which receives a stud upon the other, substantially as described with reference to the accompanying drawings. 2nd. In a sewing machine and for the purpose of quickly imparting an intermittent to-and-fro motion to the shuttle thereof, and of preventing the weight of the parts connected with the shuttle occasioning an accidental irregularity of motion on the part of the shuttle, the combination of two links, one of which has a reciprocating linear motion equivalent to that of the needle, which motion is communicated to the second link (fixed to travel in a plane parallel with that of the first), and to which second link the shuttle is connected by means of a bell crank lever through an intermediary bent link having its axis upon the said second link, and a fixed guide independent of both its own motion and of that of either of the aforesaid two links, said bent link having one straight edge which contacts with the adjacent edge of the link upon which it has not its axis, and, in so doing, preventing the link upon which it has its axis from moving so long as such contact is maintained between said straight edge and edge of link, substantially as described with reference to the accompanying drawings. 3rd. In a sewing machine and for the purpose of actuating the cloth presser with a traversing motion over the cloth plate, the combination of a lever, one end of which is connected to, or embraces, the stem of the presser, while the other is loosely connected to a plate to which a reciprocating motion proper, for actuating the traverser in both directions, is communicated by a pin on a reciprocating link engaging in a serpentine slot in said plate, substantially as described with reference to the accompanying drawings. 4th. In a sewing machine, the combination of a bar spring with a notch in the end of a projection on the cloth presser stem, into which notch the end of the spring engages when the presser has been raised to the top of its stroke, for the purpose of retaining the presser at that point for a moment, substantially as described. 5th. In a sewing machine and for the purpose of raising the cloth presser, the combination, with one of the gear wheels having a stud projecting from its face with a bent lever, with which the said stud engages, and during such engagement raises the presser to the end of the stem of which the nose of the lever is connected for that purpose, substantially as described with reference to the accompanying drawings.

# **No. 25,209. Water Wheel. (Roue Hydraulique.)**

John L. Perley, Enosburgh, Vt., U.S., 25th October, 1886; 5 years.

*Claim.*—The combination, in a water-wheel, of a casing, the bottom or floor of which is provided with a central aperture, a flume entering said casing, a gate in said flume, an overlapping flange around with said aperture projecting below the bottom of said casing, an open-topped wheel below said flange having a series of vertical blades around its outer edge, said blades being secured together at their tops by means of a rim, a flange of leather or pliable material around said rim and projecting above the top of the wheel, and bearing with its upper edge against the floor of said casing, and means, substantially as described, for supporting said wheel and said casing above said wheel.

# **No. 25,210. Churn. (Baratte.)**

Edwin W. Duggan, Toronto, Ont., 25th October, 1886; 5 years.

*Claim.*—1st. A conically-shaped spring A having its base coil connected to the cover B, in combination with the dash handle E connected to the apex of the spring A, substantially as and for the purpose specified. 2nd. A conically-shaped spring A having a bent end *a* on its base coil, which rests upon the churn cover B and is held thereon by the hook screw C, in combination with the churn dash handle E secured to the apex of the spring A. 3rd. A conically-shaped spring A having a bent end *a* on its base coil, which rests upon the churn cover B, and is held thereon by the hook screw C, in combination with the dash handle E connected to the apex of the spring A, by a pin D passing through the eye *b* and held in the handle E, substantially as and for the purpose specified.