

consisting of a pair of jaws A, A, a spring-handle B formed integral with said jaws and framing them together, a clamp-screw C adapted to close and distend said jaws, and a blade D and guard H adapted to be enclosed between said jaws and held by the screw C, substantially as shown and described. 2nd. The within-described improvement in shaving apparatus, consisting of a pair of jaws A, A, formed together to enclose between them a blade D and guard therefor, in combination with auxiliary jaw pieces O, O, provided with means, as o, o, for rigidly holding the ends of a blade between them, and adapted, substantially as shown, to move over and be adjustable upon said jaws to carry the blade with them for the purpose set forth. 3rd. The within described improved guard for shaving apparatus consisting of a plate H, provided with perforations A arranged in series as shown, with those in one row parallel to the edge of the blade, coming opposite the intervals between the perforations of the adjacent row, and said plate being arranged relatively to a blade D, substantially as shown.

**No. 24,869. Saw Log Sleigh. (Traineau à Billots.)**

Gédéon Desjardins, Pombroke, Ont., 3rd September, 1886; 5 years.

*Claim.*—1st. In the sleigh herein shown and described, the combination of the beam A having transverse grooves both in its top and bottom sides, the necks a fitted into the blocks B, the binders C lying in the top grooves of the beam, flush with its top side, and the dowel c, substantially as shown and for the purpose set forth. 2nd. In the above described vehicle, the double link E pivoted to the tongue F, by the bolt d, the pin f arranged to hold the tongue and link in line, and the staple G passed through the link and secured in the beam of the leading sleigh by the nuts e, all substantially as shown and for the purpose set forth.

**No. 24,870. Compound for Coating and Finishing Walls. (Composition pour Enduire et Finir les Murs.)**

Enos A. Bronson, Wymore, Neb., U.S., 3rd September, 1886; 5 years.

*Claim.*—1st. The herein-described composition of matter for finishing walls or ceilings, consisting of a vehicle of plaster of paris, sand, glue, whitening or Keene's cement, and if desired a suitable colouring-matter, substantially as set forth. 2nd. The herein-described composition of matter, for coating and finishing walls, consisting of a suitable vehicle of plaster of paris, sand, glue, spanish whitening or Keene's cement, and marbledust, in substantially the proportions specified.

**No. 24,871. Buggy Top. (Capote de Voiture.)**

Daniel Conboy, Toronto, Ont., 3rd September, 1886; 5 years.

*Claim.*—1st. The straps A connected at one end to the buggy top, in combination with the bar B made of metal or other hard substance, and having an eye or hook a formed substantially in the centre, substantially as and for the purpose specified. 2nd. The straps A connected at one end to the buggy top, in combination with the bar B made of metal or other hard substance, substantially as and for the purpose specified.

**No. 24,872. Spring Carriage Reach. (Fleche Elastique de Voiture.)**

Samuel Atkinson, Cincinnati, Ohio, U.S., 3rd September, 1886, 5 years.

*Claim.*—1st. The combination of two springs composed of one or more leaves, said springs extending respectively from the front and rear axles to a point beyond the centre of the body of the vehicles, and rigidly secured together at their crossing point, the inner ends of said springs being suitably connected to the body of the vehicle, substantially as set forth. 2nd. A reach for vehicles having in combination two springs composed of one or more leaves, said springs extending from the head-block and rear axle respectively to a point beyond the centre of the vehicle body, and having their inner ends connected to the vehicle body, said springs being rigidly connected at their crossing point, substantially as set forth.

**No. 24,873. Tobacco Moistening Apparatus. (Appareil pour Humecter le Tabac.)**

Leopold J. A. Laurier, St. Paul, Minn., U.S., 3rd September, 1886; 5 years.

*Claim.*—1st. The combination, with the receptacle for cigars, etc., of a device for impregnating the air in said show-case with moisture consisting of a casing B, covers C, C, trough E and a moisture producing and retaining substance A, substantially as described and for the purpose set forth. 2nd. The moistening device for cigar receptacles, consisting of the wire cloth cylinder provided at each end with a metallic cap, the metallic trough connecting said caps, and the coil of bibulous material carried by said cylinder, substantially as set forth.

**No. 24,874. Combined Drill and Bit Shank and Holder. (Tige 1 orte-Forêt et Porte Mèche de Trépan.)**

George H. Wilkes, Brantford, (assignee of Simon P. Graham, Galt), Ont., 3rd September, 1886; 5 years.

*Claim.*—1st. A drill or wood bit shank B, in which grooves C, C are formed, substantially as shown and described and for the purpose specified. 2nd. A holder D formed with jaws or prongs E, E, substantially as shown and described and for the purpose set forth. 3rd. The combination of a drill shank B, in which grooves C, C are formed, with the holder D formed with prongs or jaws E, E and sleeve G substantially as shown and described and for the purpose specified.

**No. 24,875. Washing Machine.**

(Machine à Laver.)

Westley G. Barkloy, Chesterville, Ont., 4th September, 1886; 5 years.

*Claim.*—1st. The thin sheet metal circular covering A of the cylinder having in it the circular opening a, and the ribs b attached to its inner surface, as shown and described. 2nd. The combination of a cylinder having the circular metallic perforated covering A and ribs b, with the trunnions c and crank e, as shown and described. 3rd. The combination of the cylinder having perforated metallic covering A, circular openings a, ribs b and a hinged door portion held by the hump f and pin g, with a suds box supported by the logs h secured to its ends D, as herein shown and described.

**No. 24,876. Combined Feed Water Heater and Smoke Stack for Locomotives, etc. (Réchauffeur de l'Eau d'Alimentation et Cheminée Combinées pour Locomotives, etc.)**

James Armstrong, Bridgewater, N. Y., U. S., 4th September, 1886; 5 years.

*Claim.*—1st. In combination of a feed water heater and smoke stack combined for locomotives and other portable steam boilers, the combination of the water chambers a<sub>1</sub>, a<sub>2</sub>, a<sub>3</sub>, water tubes a<sub>4</sub> and corresponding openings a<sub>5</sub> to be closed by screw-plugs c, c, and outlet pipe B<sub>3</sub>, and passage a<sub>3</sub>, a<sub>4</sub> and in closing jacket a, whereby the products of combustion and exhaust steam pass through passage a<sub>3</sub>, a<sub>4</sub>, and around tubes a<sub>5</sub>, substantially as described. 2nd. In combination of feed water heater and smoke-stack for locomotive and other portable steam boilers, the combination of the water chambers a<sub>1</sub>, a<sub>2</sub> connected together by tubes a<sub>5</sub> and bars e<sub>5</sub>, e<sub>6</sub>, and provided with a removable inclosing jacket a and passages a<sub>3</sub>, a<sub>4</sub>, with the inlet pipes B, B and outlet pipe B<sub>3</sub>, blow off cock n, thimbles k, substantially as described and for the purposes set forth. 3rd. In combination of a feed water heater and smoke-stack for locomotives and other portable steam boilers, the water chambers a<sub>1</sub>, a<sub>2</sub> connected by tubes a<sub>5</sub> and bars e<sub>5</sub>, e<sub>6</sub>, movable guards S, substantially as described. 4th. A movable jacket, in combination with feed water heater and smoke stack combined, for locomotives and other portable steam boilers, substantially for the purposes set forth and described. 5th. Check valves, in combination with a feed water heater and smoke-stack combined, for locomotive boilers, substantially for the purposes set forth and described.

**No. 24,877. Refrigerator. (Garde-Manger.)**

Henry Ruth and John L. Gallup, Kendallville, Ind., U. S., 4th September, 1886; 5 years.

*Claim.*—1st. The enclosing shell of a refrigerator, consisting of a numbers successive sheetings lined with non-conducting material, such as felt or paper, and having continuous air spaces formed between each successive layer. 2nd. The bottom of a refrigerator shell consisting of an external sheeting, intermediate or false floor lined with non-conducting material, and an air shell formed between them, and an inner or proper floor having a deep space between the joists filled with cinders. 3rd. A refrigerator having an ice chamber at one end or both ends, such chamber or chambers formed by an open graded floor with properly drained floor or pan below, and air space portion extending from the grate surface upwards to near the top or ceiling but allowing room for the circulation of the air. 4th. A refrigerator having a shell consisting of several layers of sheeting lined with non-conducting material, and forming continuous air spaces between each successive layer, the space beneath the floor filled with cinders, an ice chamber at one or both ends formed by a portion having open air spaces and allowing room for circulation at the top, and a raised floor properly drained and open to the current, all substantially as shown and described and as and for the purpose set forth.

**No. 24,878. Pulley Covering.**

(Enveloppe de Poulie.)

George M. Lindsey, Baltimore, Md., U. S., 4th September, 1886; 5 years.

*Claim.*—1st. A covering for pulleys having a backing of woven material, an elastic facing composed of a composition embracing ground cork spread on one side of said backing and a coating of soluble cement on the other side of the backing, as set forth. 2nd. A covering for pulleys having in combination, a backing of loosely woven material, a facing of ground cork and boiled oil, substantially as described, spread and dried on one side of said backing, and a coating of water-soluble cement on the other side of the backing, as set forth.

**No. 24,879. Fence Machine.**

(Machine à Clôture.)

Sam. Watson, Straughn, Ind., U.S., 4th September, 1886; 5 years.

*Claim.*—1st. In a fence-machine of the kind described, the combination of a reel-frame, the reels in pairs, the fence-posts against which the reel-frame is placed, and the wires passing on each side of the fence-post and secured, whereby the wires hold the reel-frame against the post, for the purpose set forth. 2nd. In a fence-machine, the twister having a pivoted wire-retainer consisting of a plate e<sub>2</sub> having a slot c<sub>3</sub>, and wire-retaining bar c<sub>4</sub> secured in said slot, substantially as described. 3rd. The combination of a reel-frame, the reels arranged in pairs, the fence-posts, to one of which acting as a tension post the reel-frame is secured, and the wires secured, substantially as set forth, and passing on each side of the tension-post in front of said frame, substantially as and for the purpose specified.