

straight, or substantially straight, as and for the purpose set forth. 7th. In a pantaloons stretcher, a pair of clamps consisting of base pieces having keepers, provided with bearings having open slots leading thereto, and top pieces provided with journals adapted to rest and turn in the said bearings, substantially as set forth. 8th. In a trowsers stretcher, a clamp provided with a removable eccentric top piece, adapted to clamp when turned upon its axis, substantially as set forth. 9th. In a trowsers stretcher, a connecting bar with a separate ratchet piece set into said bar, as and for the purpose set forth. 10th. In a transverse stretcher, a connecting bar made in sections, and a spring locking device located at the joint of the sections and serving to lock them together, substantially as set forth.

No. 25,961. Process of Manufacturing Leather or Imitation Leather Cover. (*Procédé de Fabrication des Couvertures de Livres en Cuir ou Imitation de Cuir.*)

Friederich H. Lieker, Toronto, Ont., 10th February, 1887; 5 years.

Claim.—1st. An improved process for the manufacture of covers, which consists in first passing the paper or other stiffening material upon the face of the leather, then cutting the edges to the proper shape, then binding the edges so shaped with a narrow strip of thin leather or other material, and then placing the cover so prepared in an embossing press, substantially as and for the purpose specified. 2nd. An improved process for the manufacture of covers, which consists in first pasting the paper or other stiffening material upon the face of the leather, then cutting the edges to the proper shape, then binding the edges so shaped with a narrow strip of thin leather or other material, then placing the cover so prepared in an embossing press, after which the crease is formed by a tool placed in an embossing press, substantially as and for the purpose specified.

No. 25,962. Steam Boiler. (*Chaudière à Vapeur.*)

Joseph A. Mumford, Hantsport, N. S., 10th February, 1887; 5 years.

Claim.—1st. The combination, with the boiler casing inclined as shown, of the fire chamber of uniform diameter, and the horizontal boiler tubes diverging in parallel planes, as set forth. 2nd. The combination of the boiler casing, inclined as shown, and the fire chamber of uniform diameter, the horizontal tubes communicating therewith, and the blow-off cock located at the lowest point of the boiler, substantially as set forth. 3rd. The combination, with the boiler casing, inclined as shown, of the fire chamber, the flues communicating therewith, the front plate or casting, having the fuel and ash door therein, grate bars K and blow-off cock L, substantially as set forth. 4th. An inclined boiler, having a fire box constructed of two or more parallel or tapering sections, as set forth. 5th. An inclined boiler, having a fire box, and tubes diverging from the fire box through the rear end of the boiler, as set forth. 6th. An inclined boiler, having one or more sections tapering to meet the flange of the fire box.

No. 25,963. Bottle. (*Bouteille.*)

James Canan, Port Colborne, Ont., 10th February, 1887; 5 years.

Claim.—1st. A tube B fitted into the neck of the bottle A, in combination with the valve C, connected to the piston-shaped valve D, having an aperture provided with a valve E, arranged substantially as and for the purpose specified. 2nd. A tube B fitted into the neck of the bottle A, and having a shoulder F formed on its end, in combination with the valve C connected to the piston-shaped valve D, having an aperture provided with a valve E, having legs G formed on it, substantially as and for the purpose specified. 3rd. The piston-shaped valve D, provided with a valve E, and connected to the valve C, having a cushion E formed in it, in combination with the support F extending from the bottom of the bottle A, and arranged substantially as and for the purpose specified. 4th. A piston shaped valve D, fitting the neck of a bottle A, and having an aperture closed by a valve E, with legs G actuated by the spring B, in combination with the valve C, connected to the valve D and designed to close the inner end of the neck of the bottle A, substantially as and for the purpose specified.

No. 25,964. Suspender Attachment.

(*Disposition aux Bretelles.*)

William O. Raymond and William H. Derriek, Rochester, N. Y., U.S., 10th February, 1887; 5 years.

Claim.—1st. A suspender attachment, fitted to be attached to the front end of each shoulder band, and to the trousers at or near the fly or joining of the trousers in the middle, in front, and at or near each side of the trousers, substantially as described. 2nd. In combination with trousers, and shoulder bands for supporting them, an adjustable suspender attachment fitted to be attached to the front end of such shoulder band, and to the trousers at or near the fly or joining thereof in the middle, in front, and also at or near each side of the trousers, substantially as described. 3rd. In a pair of suspenders, the combination with the shoulder bands R, E, having their rear ends provided with button-holes, or other devices for attaching to the trousers behind, and their forward ends provided with the buckle pulleys or buckle loops P, of the connecting cord C or its equivalent, provided with looped ends I, K, by which it is attached to the side buttons B, G, and the loop pulley or button loop P attached to the trousers at or near the joining of two parts thereof in front, substantially as described. 4th. The combination, with trousers and shoulder bands for supporting them of the cord C, or its equivalent, attached to the trousers at or near each side and at or near the middle in front and attached to the front ends of each shoulder band, substantially as described.

No. 25,965. Oil Cup. (*Godet à Huile.*)

Herman A. Todd, Evanston, W.T., U.S., 10th February, 1887; 5 years.

Claim.—1st. In an oil cup, the combination, with the cup body having a passage for outflow of oil, and a spindle provided with an oil-way and screwed into said passage, of arms or springs held to the top of the spindle, and bearing on the cup body to hold and steady the top of the spindle independently of the cap of the oil cup, substantially as described for the purpose set forth. 2nd. The combination, with the oil cup body A, provided with passages B, C, and a seat b, of a spindle D, having an oilway F, and threaded into passage B and adapted to close onto seat b, and arms or springs E fitted to the head of the spindle and bearing on the cup body, substantially as herein set forth. 3rd. The combination, with the cup body A having an oil outlet, and a spindle secured to said outlet and adjustable lengthwise, and provided with an oil-way, of an index finger G on the spindle, substantially as herein set forth. 4th. The combination, with the oil cup body A having oil outlet and a graduated scale H, of a spindle screwed to said outlet, and adjustable lengthwise and provided with an oilway, as at F, add an index finger G, substantially as described for the purposes set forth.

No. 25,966. Toboggan. (*Trainee Sauvage.*)

Edouard Darche, Chambly Basin, Que., 10th February, 1887; 5 years.

Réclame.—1o. Une trainee sauvage composée de l'assemblage du fond mince A, et des barres transversales et longitudinales C, D et B, émergeant audessus et au dessous du dit fond mince A, et munis en dessous des languettes incrustées L, faites de gâlage ou de toute autre substance dure, susceptible de prendre un beau poli et de résister à l'usure des bras F, à courbe spéciale f et des roulettes recouvertes l, dépassant partiellement les cotés de la trainee tel que ci-dessus décrit et pour les fins sus-mentionnées.

No. 25,967. Gravitation Lock.

(*Serrure à Détenie.*)

Charles Sandford, Fenslon Falls, Ont., 10th February, 1887; 5 years.

Claim.—1st. A latch lock, composed of a reversible cam ended latch-bolt B, Br, B11, having its cam end geared into a pivoted gravitation tumbler C operated by square knob spindle, the latch adapted to be dead stopped or operated by a key, substantially as shown and described. 2nd. The combination of the casing A, Ar, a, ar, bolt B, Br, B11, tumbler C, notches Cr, C11, c, ar, stop D, d, dr, and key hole E, substantially as shown and described. 3rd. The combination of the bevelled bolt-head B, slot b, pin a, shank B, cams B11 and stops D, substantially as shown and described. 4th. The combination of the tumbler C, notches Cr, C11, bearings c, with square eye cl, substantially as shown and described. 5th. The combination of the bolt B, Br, B11, d, pin a, tumbler C, notches Cr, C11, bearings c and eye cl, substantially as shown and described.

No. 25,968. Metal Tie for Railway Tracks.

(*Traverse Métallique de Chemin de Fer.*)

Charles Netter, New York, N.Y., U.S., 10th February, 1887; 5 years.

Claim.—1st. In combination with a U-shaped metal tie for railway tracks, having notches in the edges of its open side to receive the base of a rail, and the thickness of a fish plate or other suitable connection, and openings C to receive the hooked ends of the bolts D, the fish-plate E, substantially as herein described and shown. 2nd. In combination, with a U-shaped metal tie for railway tracks provided with notches in the edges of its open side to receive the box of the rail, the fish-plate E extending beyond the edges of the base of the rail, and the hook-shaped bolts D, constructed substantially as herein shown and described. 3rd. In combination with a U-shaped metal tie for railway tracks, the inverted U-shaped yielding cushion J, constructed substantially as and for the purpose herein set forth. 4th. In combination, with a U-shaped metal tie for railway tracks, the hook-shaped fish plate E, constructed substantially as herein shown and described.

No. 25,969. Double and Gang Edger.

(*Sciérie pour Otter les Flaches.*)

Michael Garland, Bay City, Mich., U. S., 10th February, 1887; 5 years.

Claim.—1st. In combination with the stationary saw of a gang-edger, a movable saw guide, and a mechanism for adjusting the latter, composed essentially of a rock-shaft, and cranks connected by means of pitman to both ends of the saw guide, all substantially as and for the purposes hereinbefore set forth. 2nd. In combination with the stationary and movable saws, of a gang-edger, and means for adjusting the movable saw-guide, the depending pointers located above and in close proximity to the upper portions of the peripheries of the saws, and by means of which the operator can sight the condition of the machine with reference to the kind of work it may be set to do, all substantially as hereinbefore set forth. 3rd. In a gang-edger, the combination, with the edge-guide arranged to move bodily and laterally, of a rock-shaft and cranks thereon, suitably connected, as specified, to said edge-guide, near the ends of the latter, a suitable handle for turning said rock-shaft, and means for locking said handle in place, all substantially in the manner and for the purpose hereinbefore set forth. 4th. In combination with a frame, carrying an upper feed-roll geared to a lower feed-roll, and the shaft or bar to which said frame is hinged, means for adjusting said frame relatively to the said shaft or bar for the purpose of effecting a relative adjustment of the said upper and lower feed-rolls, all substantially as hereinbefore set forth. 5th. In combination with the hinged frame L, which carries an upper feed roll, and the shaft or bar J to which said frame is hinged, an idler roll M mounted to turn freely upon said shaft or bar, for the purpose of facilitating the return through the machine of defective lumber, all as hereinbefore set forth. 6th.