

No. 36,148. Odour Diffusing Apparatus.*(Appareil pour la diffusion des parfums.)*

John Augustus Gibbons, Toronto, Ontario, Canada, 16th March, 1891; 5 years.

Claim.—1st. An odour diffusing apparatus, consisting of a vessel to contain the fluid, a cage and tray to gradually receive the fluid from the vessel, and a ball stopper to close the mouth of the vessel when required, substantially as and for the purpose specified. 2nd. An odour diffusing apparatus, consisting of the cylindrical vessel A, having holes, a neck E, having holes e at its bottom edge, in combination with the plate F, with hole f and ball stopper I, attached in position by spring H, substantially as and for the purpose specified. 3rd. The cylindrical vessel A, having holes a, neck E, having holes e at its bottom edge, in combination with the plate F, with holes f, ball stopper I attached in position by spring H and tube G, with holes g arranged as and for the purpose specified. 4th. The cylindrical vessel A, having holes a, neck E, having holes e at its bottom edge, cage B, tray C and perforated casing J, in combination with the plate F, with hole f, ball stopper I attached in position by spring H and tube G, with holes g arranged as and for the purpose specified. 5th. The cylindrical vessel A, having holes a, neck E, having holes e at its bottom edge, cage B, tray C and perforated casing J, in combination with the plate F, with hole f, ball stopper I attached in position by spring H and tube G, with holes g and cylindrical casing L, arranged as and for the purpose specified.

No. 36,149. Electric Belt.*(Ceinture électrique et suspensoir abdominal.)*

Harvey Cortland, Toronto, Ontario, Canada, 16th March, 1891; 5 years.

Claim.—A belt, consisting of a rear waist section, and a front abdominal section connected at the hips by an elastic and lacing, both sections having a row of alternately copper and zinc magnets connected by a circuit wire J, and wires L, M, at the hips to connect with one another or with a portable battery N, worn by the wearer of the belt, and perforated strips P, of eel skin covering said magnets and stitched to the belt on the inside, as set forth.

No 36,150. Governor for Water Wheels.*(Gouverneur pour roues hydrauliques.)*

Thomas H. Coulter and Floyd Ambrose Taft, both of Dayton, Ohio, U.S.A., 16th March, 1891; 5 years.

Claim.—1st. In a speed regulator, the combination of the pulley B, spur wheels D and E, bevel wheels I, I, ratchet wheels O and P, driving arms A¹, provided with the compound dogs composed of parts 6 and 7, the pawls 22, disengaging dogs 19 and 20, bevel pinion J on the shaft K, having a worm gear connection with the shaft N, which regulates the water wheel gate with the shifting arm 18 on the sliding bar 16, moved to trip the dogs on the driving arm, substantially as set forth and described. 2nd. The combination of a ball governor, arranged to operate the bent lever U, and shifting arm 18, with the driving arm A¹, provided with the compound dogs 6 and 7, and disengaging dogs 19 and 20, the ratchet wheels O and P, bevel wheels I, I, shaft K and N and worm gear L and M, substantially as set forth and described.

No. 36,151. Folding Rack for Clothes.*(Porte-habit pliant.)*

Emily S. Shoenberger, assignee of William Hamilton Shoenberger, both of Cobourg, Ontario, Canada, 16th March, 1891; 5 years.

Claim.—1st. The combination, with the back of a bedstead, of an arm provided with hooks, and hinged or otherwise movably fixed to the back of the bedstead, substantially as and for the purpose specified. 2nd. An arm A, hinged or otherwise movably fixed to the back of the bedstead C, in combination with a shelf F hinged to the arm, and clothes hooks D hinged within a recess E, made in the side of the arm, substantially as and for the purpose specified. 3rd. An arm A, hinged or otherwise movably fixed to the back of the bedstead C, and supported by the hinged brace H, in combination with a shelf F hinged to the arm A and supported by the hinged bracket G, the clothes hooks D hinged within the recess E, made in the side of the arm A, substantially as and for the purpose specified.

No. 36,152. Cooler for Tuyeres.*(Refrigerateur de tuyère.)*

Jean Baptiste Vincent, Montreal, Quebec, Canada, 16th March, 1891; 5 years.

Claim.—1st. The combination of a jacketed tuyère cold water-feed overflow and reservoir, substantially as and for the purpose hereinbefore set forth. 2nd. The indicating float in the reservoir of a tuyère cooler.

No. 36,153. Machine for Forming Sheet Metal Can Bodies.*(Appareil pour la fabrication des boîtes à conserves.)*

Mathias Jensen, and the Jensen Can Filling Machine Company, all of Astoria, Oregon, U.S.A., 16th March, 1891; 5 years.

Claim.—1st. In a machine of the character described, the combination with a clamp for holding the blank, of a longitudinally-reciprocating edge-turning block or folder, to travel along the edge of the blank and fold or turn it, substantially as set forth. 2nd. The combination, with a clamp for holding the blank, of the two oppo-

site, longitudinally-reciprocating edge-turning blocks or folders to travel along opposite edges of the blank, and fold or bend said edges respectively over upon opposite sides of the blank to simultaneously form the interlocking hooks at single stroke, substantially as set forth. 3rd. The combination, with a frame having fixed longitudinal guide-ways and a horizontal, longitudinally-slotted table above said guide-ways, of a reciprocating carrier under the table on said guide-ways, and having dogs projecting up through the slots in the table, and opposite yielding arms on the carrier, substantially as set forth. 4th. In a can body forming machine, the combination, with a fixed table, of a reciprocating machine provided with dogs for feeding the sheet metal blanks forward on the said table, and yielding arms pivoted on the said carrier and adapted to engage the ends of the blank to guide the latter forward, substantially as shown and described. 5th. In a can body forming machine, the combination, with fixed rounded dies, of movable dies reciprocating over the said fixed dies to partly bend and to clamp the blank, and folding blocks mounted to reciprocate longitudinally and having grooved ends adapted to engage and move along the ends of the blank and press the same over the edges of the fixed dies, substantially as shown and described. 6th. In a can body forming machine, the combination with a reciprocating carrier provided with dogs adapted to feed the sheet metal blank forward, of spring-pressed, pivoted arms provided with grooves in their free ends to receive the lips of the sheet metal blank, substantially as shown and described. 7th. In a can body forming machine, the combination, with pivoted arms supported on springs and supporting the sheet metal blank, of a pair of bending tongs adapted to engage the sheet metal blank to bend the same and to disengage its lips from the said pivoted arms, substantially as shown and described. 8th. In a can body forming machine, the combination, with pivoted arms supported on springs and supporting the sheet metal blank, of a pair of bending tongs adapted to engage the sheet metal blank to bend the same and to disengage its lips from the said pivoted arms, and a fixed horn in line with the said arms and pair of tongs, and over which the sheet metal blank is bent, substantially as shown and described. 9th. In a machine of the character described, the combination, with a horn having a longitudinally-extending shoulder along one side, of a bending tong adapted to close around the horn and having the free ends of its members constructed to overlap at said shoulder, the end of the overlapped member being adapted to press a previously folded edge of the can body against said shoulder, and the end of the outer or overlapping member projecting across the shoulder to force the opposite folded edge past the first-named edge, and an interlocking mechanism at the shouldered end of the horn to engage the folded edges of the body, hold them when released by the tongs and interlock them, substantially as set forth. 10th. In a machine of the character described, the combination, with the horn in the form of a volute, the groove and shoulder formed thereby, extending along the lower side of the horn, of a bending tong above the horn and adapted to embrace the same to bend a previously folded or lipped blank there around, and bring the folded ends into position for interlocking, and a transversely-movable lever below the shoulder to force the lower or outer folded end of the blank inwardly into the fold of the opposite end, the inner fold being supported by said shoulder, substantially as set forth. 11th. The combination, with the horn and the bending tongs to bend the blank around the horn to bring its previously-folded ends into position, the free ends of the tongs being provided with overlapping toothed prongs, of a lever reciprocating transversely under the said horn, and having its upper end provided with teeth to pass between the teeth of said prongs and interlock the said folded ends of the blank, substantially as set forth. 12th. The combination, with the horn, of a bending tong to bend the blank around the horn to bring its folded ends into position, the free ends of the tongs having prongs or stops to limit the movement of the blank along the horn previous to bending, substantially as set forth. 13th. The combination, with the horn and the bending tongs to bend the blank around the horn and bring its previously folded ends into position, the free ends of the tongs being provided with overlapping prongs having teeth, of a transversely-swinging, interlocking lever having its upper end rounded, toothed and shouldered to pass between the prong teeth and engage the lower or outer folded edge of the can, and interlock it with the other folded edge, substantially as set forth. 14th. In a can body forming machine, the combination, with a horn supporting the sheet metal can body, of a roller mounted to turn in the said horn and projecting below the same, a second roller in line with the said first named roller, and a reciprocating carrier for turning the said second roller and sliding the can body over the said horn, its seam passing between the said rollers, substantially as shown and described. 15th. In a can body forming machine, the combination, with a horn supporting the sheet metal can body, of a roller mounted to turn in the said horn and projecting below the same, a second roller in line with the said first named roller and a reciprocating carrier for turning the said second roller and sliding the can body over the said horn, its seam passing between the said rollers, and yielding bearings for the said second roller, substantially as shown and described. 16th. In a can body forming machine, the combination, with a horn, of a carrier frame hinged on the end of the said horn, and adapted to receive the can bodies directly from the said horn, substantially as shown and described. 17th. In a can body forming machine, the combination, with a horn, of a carrier frame hinged on the end of the said horn and adapted to receive the can bodies directly from the said horn, and a reciprocating frame provided with yielding hooks for moving the can bodies from the said horn onto the said hooked frame, substantially as shown and described. 18th. In a can body forming machine, the combination, with a can body carrying frame constructed to receive the can bodies upon and around it, of a reciprocating frame held over the said carrying frame and provided with dogs to move the can body forward on the said carrying frame, substantially as shown and described. 19th. In a can body forming machine, the combination, with a can body carrying frame, upon and around which the can bodies may be passed, of a reciprocating frame held over the said carrying frame and provided with dogs to move the can body forward on the said carrying frame, and dogs held on the said carrying frame, to engage the interior of the can bodies to prevent a backward movement thereof, substantially as shown and described. 20th.