

sisting, in part, of a body having a bottom B and rim *b*¹, and having the two connected integrally by a large intermediate portion, which forms a gradual transition from the horizontal direction of the bottom to the vertical direction of the side or rim, substantially as set forth. 2nd. In a box for holding paste and similar materials, the combination of the bottom B, rim *b*¹, large curved portion *b*², connecting bottom and ring bead *b*³, on said rim and cover C, c, with bead *c*¹ substantially as set forth.

No. 36,064. Stove Pipe. (*Tuyau de poêle.*)

Charles Jourdan Stuart, Montreal, Quebec, Canada, 3rd March, 1891; 5 years.

Claim.—1st. A curved stove pipe blank, the meeting edges of which are provided with locking devices, and adapted upon being pressed inwardly towards the centre and towards each other, to become partially locked together, and, when freed from such pressure to spring outward and be completely locked by such devices, as shown and described. 2nd. A curved stove pipe blank, one of the meeting edges of which carries inwardly-projecting studs or locking devices, and the opposite edge is provided with a seat and apertures to receive such studded edge, as shown and described. 3rd. A stove pipe length, one of the meeting edges of which carries inwardly projecting studs and the opposite edge has a depression containing apertures and lips struck up from it, the said depression and lips forming a recess for the studded edge, and the said apertures serving to fit over the studs on same, for the purpose set forth.

No. 36,065. Gas Apparatus. (*Appareil à gaz.*)

Archibald Farmer, Toledo, Ohio, U.S.A., 3rd March, 1891; 5 years.

Claim.—1st. In a gas apparatus, in combination with a suitable closed chamber or tank, a steam pipe connected with a source of supply of steam, and opening within the chamber at or near the bottom thereof, an air pipe connected with a source of supply of air under pressure, opening within the lower part of the chamber, and a suitable gas draw-off pipe, substantially as and for the purposes specified. 2nd. In a gas apparatus, in combination with the closed chamber, a body of water within the same, and a hydro-carbon layer above such water, a steam pipe connected with a source of supply of steam, having its open end immersed in the water, an air pipe connected with a source of supply of air under pressure, adapted to discharge the air within the lower part of the chamber, and a gas draw-off pipe connected with the interior of the chamber, above the liquids therein, substantially as and for the purpose shown. 3rd. In a gas apparatus, in combination, with a suitable closed tank or chamber, a body of water within the same, and a hydrocarbon layer above such water, a steam pipe connected with a source of supply of steam and discharging into the body water, an air-pipe opening at a point within the lower part of the chamber, means for supplying air under pressure to such pipe, a suitable draw-off device connected with the lower part of the chamber, and a gas conduit leading from a point above the liquid, substantially as and for the purpose set forth. 4th. In a gas apparatus, in combination with a suitable closed chamber, a body of water within the same, and a layer of kerosene and gasoline above the water, a steam pipe connected with a source of supply of steam and discharging into the body of water, a pipe connected with a source of supply of air under pressure, and adapted to conduct air into the lower part of the chamber, and a gas conduit or pipe communicating with the upper portion of the chamber, substantially as and for the purpose set forth. 5th. In a gas apparatus, in combination with a suitable closed chamber, a steam pipe to be connected with a source of supply of steam, having its discharge end situated within the chamber, at or near the bottom of the latter, a suitable regulating valve on such pipe to regulate the pressure of steam admitted to the chamber, a pipe, having its open inner end situated within the lower part of the chamber, a pump connected with such pipe, adapted to pump air and liquid, as desired, and means whereby the inlet part of the pump can be connected with the atmosphere or with a receptacle for liquids at will, substantially as and for the purpose specified.

No. 36,066. Die for Forming Auger Bits.

(*Etampe pour faire les mèches des tarières.*)

Josiah Bailey, Wilmington, Ohio, U.S.A., 3rd March, 1891; 5 years.

Claim.—1st. A set of dies for forming an auger, with a single main spiral blade, each of which dies has a zig-zag recess of constantly varying cross-section, said recess being so shaped that, when at any point it is measured along a line perpendicular to the blade of the main spiral, which would be formed therein, the recess is thickest at that portion which forms the axis of the spiral, and grows thence constantly thinner out toward that portion of the recess, or of the corresponding recess in the other die that forms the edge of the main spiral blade, substantially as described. 2nd. A set of dies, made in one or more transverse sections for forming an auger with a single main spiral blade, each of which dies has a zig-zag recess of constantly-varying cross-section, said recess being so shaped that when at any point it is measured along a line perpendicular to the blade of the main spiral which would be formed therein, the recess is thickest at that portion which forms the axis of the spiral, and grows thence constantly thinner out toward that portion of the recess or of the corresponding recess in the other die that forms the edge of the main spiral blade, said dies having also the corresponding recesses E, E¹ for forming the stock of the auger, the recesses G, G¹ for forming the point, the recesses I, I¹ for forming the cutter, the recesses H, H¹ for forming the auxiliary supporting spiral for said cutter, and the recesses F, F¹ forming the chip-removing edge and lip, substantially as described.

No. 36,067. Tweezers for Soldering.

(*Brucelles pour souder.*)

Moses Greer, Jr., Knoxville, Tennessee, U. S. A., 3rd March, 1891; 5 years.

Claim.—Soldering tweezers, constructed with a pair of legs, one of which is provided with an elongated tapering slot for receiving and holding stems of different diameters in opposition to the article held between said legs, substantially as described.

No. 36,068. Wringer for Mops.

(*Essoreuse de torchon.*)

Eldridge H. Noble and John William Ward, both of Postville, Iowa, U.S.A., 3rd March, 1891; 5 years.

Claim.—1st. In a mop-wringer, the combination, with the roller-carrying frame open at one end, a fixed roller and an adjustable roller, of a mop-guide pivoted at said open end of the frame and provided with a slot or recess engaged by one of the bearing-arms of the adjustable roller, said arm operating the guide to open or close the end of the frame, substantially as set forth. 2nd. In a mop-wringer, the combination, with an approximately U-shaped frame, a roller mounted in stationary bearings upon one arm thereof, and an adjustable roller mounted in pivotal bearings on the other arm of said frame, of a mop-guide pivoted to the latter arm and provided with a slot engaging one of the bearing-standards of the adjustable roller, whereby said guide is caused to turn and close the open end of the frame during the adjustment of the latter roller, substantially as set forth. 3rd. In a mop-wringer, the combination, with a frame having an open end, of a fixed and adjustable roller carried thereby, a lever for adjusting the latter roller, and a crank-handle rigidly secured to one end of its shaft, and stationary and movable mop-guides mounted on the frame, said movable guide being adapted to automatically turn and close the open end of the frame during the adjustment of the latter roller, substantially as set forth. 4th. In a mop-wringer, the combination, with a frame, of a fixed and an adjustable roller, an operating-lever forming a bearing for the latter and provided with an approximately right-angular extension pivoted at the angle thereof to a rod carrying the other bearing for said roller, and mechanism for returning the latter in its normal position (free from contact with the fixed roller) consisting of a rod pivoted at the outer end of said lever-extension and playing in a bracket upon the frame, and a coil-spring disposed upon said rod between its upper shouldered end and said bracket, substantially as set forth. 5th. In a mop-wringer, the combination, with supporting-standards, and a folding platform of means for pivoting and locking said platform in adjusted position, consisting of clutch-plates secured respectively to the platform and standards, a rod passing through the latter, and perforations in the plates, said rod being headed at one end and provided with screw-threads at the other, and a thumb-nut disposed upon said screw-threaded end and adapted to be adjusted to lock said plates together, substantially as set forth. 6th. In a mop-wringer, the combination, with standards provided upon their inner sides with plates having diametrical grooves at right angles to each other, of a folding platform having its bearing-plates provided each upon its outer side with a diametrical rib, adapted when the platform is either folded or open to coincide with said grooves, and means for locking said plates together, substantially as set forth. 7th. In a mop-wringer, the combination, with the frame and folding platform, of a fixed and an adjustable roller carried by the former, a lever for operating said adjustable roller, and a treadle mounted upon an extension of one of the bearing-plates of the platform, and connected with the lever by a pitman, said treadle being adapted to fold under the platform when the latter is folded, substantially as set forth. 8th. In a mop-wringer, the combination, with the main frame and a roller-carrying frame mounted thereon, and provided with flanges forming water-guides, of a fixed and an adjustable roller carried by the latter frame, a lever for adjusting the latter roller, a folding platform at the lower end of the main frame and adapted to be locked thereto in adjusted position, and a treadle mounted upon an extension of one of the platform-bearings, and connected with the lever by a pitman, substantially as set forth. 9th. The herein described mop-wringer, comprising the main frame carrying a folding platform, a roller-carrying frame mounted on the main frame and provided with flanges forming water-guides, a fixed and an adjustable roller carried by said roller-frame, a lever for adjusting the latter roller, and a crank-handle for rotating the same, a treadle mounted upon a bearing projecting from the platform, and connected with the lever by a pitman, and a supplementary water-guide having upturned ends secured between the roller-frame, supporting-brackets, and the main frame-standards all arranged and adapted to operate, substantially as and for the purpose set forth.

No. 35,069. Jack for Waggons.

(*Chèvre de carrosserie.*)

David W. Benjamin, Henry H. Holton and Solomon H. Amidon, (assignees of Alson Lee Weatherhead), all of Miller's Falls, Massachusetts, U.S.A., 3rd March, 1891; 5 years.

Claim.—In combination, the post A, and rack B, secured to said post, the guard B¹ secured to said rack, the supporting-strap held against the post A, by the loop f, the supporting block D, secured to said strap lever C, having fulcrum-pin a, and the link E, connecting the supporting-strap D¹, and the lever C, as and for the purpose set forth.

No. 36,070. Foot Bath Tub.

(*Cuvette pour bain de pied.*)

Mary Lydia White Martinot, New York, State of New York, U.S.A., 4th March, 1891; 5 years.

Claim.—1st. As an improved article of manufacture, a foot-bath