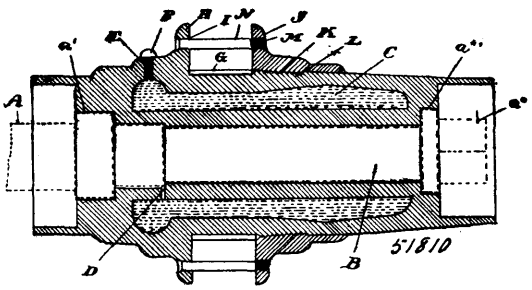
described. 3rd. In a tire cover, the combination of two rings of prepared canvas firmly sewn together at the outer edges, pointed studs riveted thereto, and lace hooks on the inner edges adapted to attach the cover to the tire.

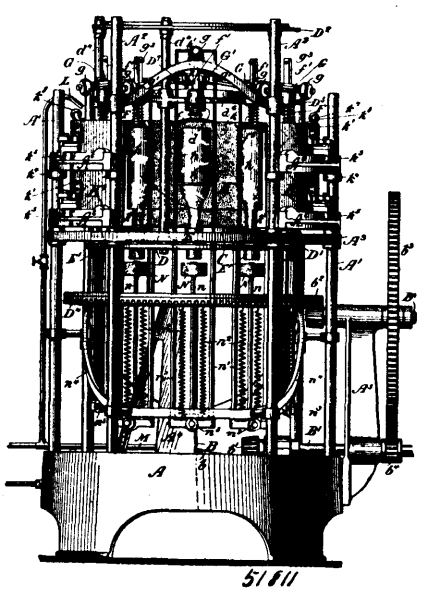
No. 51,810. Wheel-Hub. (*Moyeu de roue.*)



Beauchamp Henry Montgomery, Toronto, Ontario, Canada, 1st April, 1896; 6 years. (Filed 4th March, 1896.)

Claim.—1st. In a wheel-hub, a chamber surrounding the bore, serving as a reservoir to contain the lubricant, and means for feeding the lubricant from the reservoir to the bore, substantially as specified. 2nd. In a wheel-hub, a fixed flange secured to the outer circumference of the wheel-hub, a movable flange immovably secured to the hub, said flanges adapted to securely hold the inner ends of the spokes to the said hub, substantially as specified. 3rd. In a wheel-hub, the combination of a fixed flange, a series of spoke sockets formed medially in the perimeter of the wheel-hub, a fixed flange secured to the perimeter of the wheel-hub at one side of the spoke sockets, a removable flange secured to the perimeter of the wheel-hub at the opposite side of the spoke sockets, bolts passing through the flanges for the purpose of locking them together, substantially as specified. 4th. In a wheel-hub, the combination of a lubricant chamber surrounding the bore, means for communication from the said chamber to the bore, means for filling the said chamber a series of spoke sockets formed medially in the perimeter of the hub, a fixed flange secured to the perimeter of the hub, a movable flange removably secured to the perimeter of the hub at the opposite side of the spoke sockets, and a series of bolts passing through the said flanges for the purpose of securely locking them together, substantially as specified. 5th. In a wheel-hub, the combination of a chamber surrounding the bore means of communication from said chamber to said bore, a fixed flange secured to the outer circumference of the hub, a movable flange immovably secured to the outer circumference of said hub and adapted to be moved to and from the fixed flange, means for dividing the space between the said flanges into any suitable number of compartments, and means for locking together the two flanges, substantially as specified.

No. 51,811. Bottle Washing Machine.
(*Appareil à laver les bouteilles.*)



Melvin Donally, Brooklyn, New York, U.S.A., 1st April, 1896; 6 years. (Filed 5th March, 1896.)

Claim.—1st. The combination, with a rotary carrier having upper and lower bars adapted to support a bottle or other like article at both ends with freedom for rotation, and means to rotate said carrier, of brushes supported in proximity to the path of the bottle and on opposite sides thereof, a rotary carrier for one of said brushes concentric with the bottle carrier and means to rotate said brush carrier in the same direction as the bottle carrier but at a greater speed. 2nd. The combination, with a carrier and means to hold a bottle at both ends in a vertical position, with freedom for rotation, of a brush, a support for maintaining said brush in proximity to the path of the bottle, devices acting between said brush and its support to press the brush toward the bottle and to permit it to yield in the opposite direction and means to produce relative movement of the bottle carrier and brush support. 3rd. The combination, with a carrier adapted to receive a bottle, of a brush, a support for maintaining the brush in proximity to the bottle, a swinging arm connecting the brush to its support and a spring to press the brush against the bottle and to permit it to yield in the opposite direction and means to produce relative movement of the bottle carrier and brush support. 4th. The combination, with a carrier adapted to receive a bottle, of a brush, a support for maintaining the brush in proximity to the bottle, an arm pivoted upon said support and having the brush pivotally attached thereto, a spring interposed between the brush and said support and means to produce relative movement of the bottle carrier and brush support. 5th. The combination, with a carrier adapted to receive a bottle, of a series of brushes, a support for maintaining said brushes in proximity to the bottle, devices between each brush and the support to press the brush toward the bottle and to permit it to yield in the opposite direction, a loose connection from each brush to the next whereby the proximate ends of adjacent brushes are caused to move together and means to produce relative movement of the bottle carrier and the brush support. 6th. The combination, with a carrier adapted to receive a bottle, of a series of brushes, a support for maintaing said brushes in proximity to the bottle, a spring interposed between each brush and its support to press the brush toward the bottle and to permit it to yield in the opposite direction, a loose connection from each brush to the next whereby the proximate ends of adjacent brushes are caused to move together and means to produce relative movement of the bottle carrier and brush support. 7th. The combination, with a rotary carrier adapted to receive a bottle and means to rotate said carrier, of a series of brushes, a support for maintaining said brushes concentric with the bottle carrier and in proximity to the path of the bottle, a spring interposed between each brush and the support to press the brush toward the bottle and to permit it to yield in the opposite direction and a loose connection from each brush to the next whereby the proximate ends of adjacent brushes are caused to move together. 8th. The combination with a carrier adapted to receive a bottle, and driving mechanism therefor, of brushes supported in proximity to the path of the bottle and on opposite sides thereof, supports for said brushes, an arm for each brush pivoted on said support and having the brush pivotally attached thereto, and a spring between each brush and its support to press the brush toward the path of the bottle and to permit it to yield in the opposite direction. 9th. The combination with a carrier adapted to receive a bottle, and driving mechanism therefor, of a series of brushes supported at each side of the path of the bottle and in proximity thereto, a support for each of said series of brushes, devices between each brush and its support to press the brush toward the path of the bottle and to permit it to yield in the opposite direction, and a loose connection from each brush of a series to the next, whereby the proximate ends of adjacent brushes are caused to move together. 10th. A carrier for bottle washing machines having upper and lower bars connected together, a rotatable holder to receive the mouth end of the bottle and a flexible, disc-like holder carried by the other bar and pressed yieldingly against the bottom of the bottle to which it is adapted to conform, and held from rotation, whereby as the bottle is rotated its bottom is rubbed by said flexible holder. 11th. The combination with a bottle carrying frame, a spring-pressed holder mounted thereon and adapted to bear against one end of the bottle, a movable guard frame supported by said bottle carrying frame and connected to said holder to move therewith and means to withdraw said holder to release the bottle and at the same time to move said guard frame into position to support the bottle. 12th. The combination with a bottle carrying frame a spring-pressed holder mounted thereon and adapted to bear against one end of the bottle, a movable guard frame supported by said bottle carrying frame and connected to said holder to move therewith and means to drive said bottle carrying frame, of an arm mounted upon said bottle carrying frame and having said holder and guard frame conneeted thereto and a cam adapted to act upon said arm and thereby to withdraw the holder to release the bottle and at the same time to move the guard frame into position to support the bottle. 13th. The combination with a bottle carrier, of a brush supported by said carrier to move therewith in line with the bottle, means to drive said carrier continuously and a cam adapted to co-operate with a brush holder to move the brush longitudinally into the bottle while the carrier continues its movement. 14th. The combination with a bottle carrier and means to drive the same continuously, of a brush supported by said carrier to move therewith in line with the bottle, devices to move said brush longitudinally into the bottle and to withdraw the same at a predetermined time while the carrier continues its movement, and means to rotate the bottle in the carrier. 15th. The combination with a supporting