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G. HUSS

BOTTLE WASHING DEVICE

Filed May 6, 1924

Fig. 1.

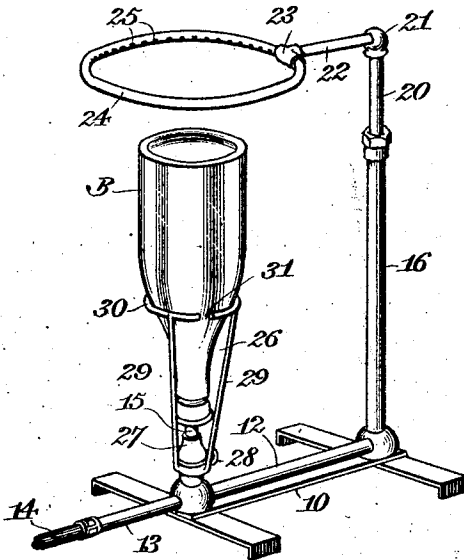


Fig. 3.

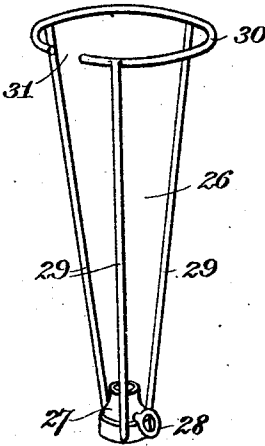
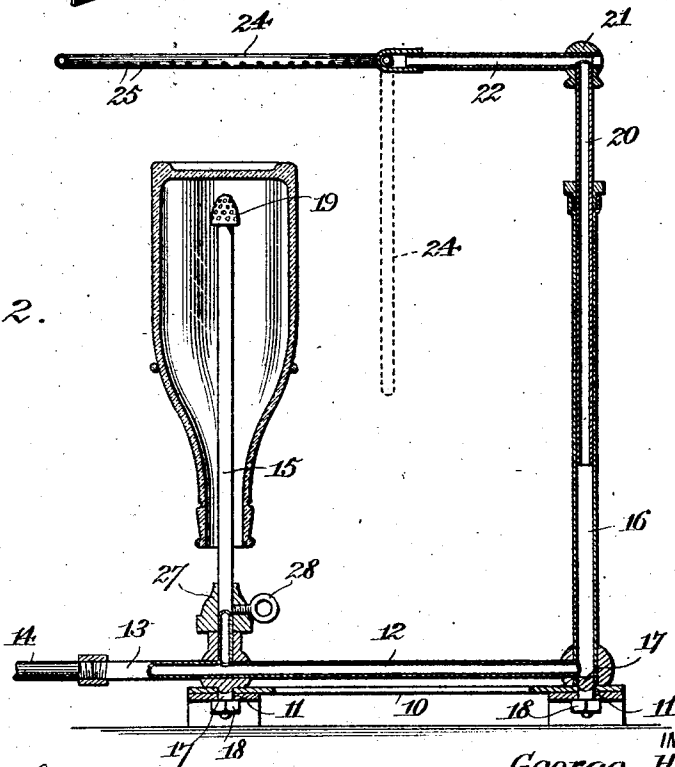


Fig. 2.



WITNESSES:

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BOTTLE-WASHING DEVICE.

Application filed May 6, 1924. Serial No. 711,375.

To all whom it may concern:

Be it known that I, GEORGE HUSS, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Bottle-Washing Device, of which the following is a full, clear, and exact description.

This invention has relation to washing or cleansing devices and has particular reference to a device for washing and cleansing bottles and primarily contemplates a bottle washing device which is particularly intended for household use whereby the same may be connected with an ordinary faucet.

The invention contemplates a bottle washing device of the character set forth which is operable to simultaneously subject the bottle to an internal and external washing and cleansing operation.

The invention furthermore comprehends a bottle washing device in which means of adjustment is provided to compensate for variations in the size of the bottles being washed by the device.

As a still further object the invention resides in a bottle washing device which is capable of being partly disassembled and folded or collapsed to admit of packing in a minimum of space for transportation or storage.

The invention furthermore contemplates a bottle washing device which is comparatively simple in its construction, mode of use, inexpensive to manufacture, and which is highly efficient in its purpose.

With the above recited and other objects in view, the invention resides in the novel construction set forth in the following specification, particularly pointed out in the appended claims, and illustrated in the accompanying drawings, it being understood that the right is reserved to embodiments other than those actually illustrated herein to the full extent indicated by the general meaning of the terms in which the claims are expressed.

In the drawings—

Figure 1 is a perspective view of a bottle washing device constructed in accordance with the invention.

Fig. 2 is a vertical sectional view thereof through.

Fig. 3 is a perspective view of the bottle supporting means removed.

Referring to the drawings by characters of reference, 10 designates a suitable supporting base which is provided with spaced vertical apertures 11. A horizontal feed pipe 12 is provided with an inlet end 13 for attachment to a hose 14 leading to a common source of supply. The horizontal feed pipe is provided with upstanding spaced feed pipes or tubular standards 15 and 16. The feed pipe 12 is further provided with depending threaded stems 17 adapted to be inserted in the vertical openings 11 and to receive on their outer ends the nuts 18 in order to detachably associate the feed pipes with the base 10. The vertical feed pipe 15 is formed at its upper end with a sprayer head 19. The vertical feed pipe 16 telescopically receives a pipe section 20, the lower open end of which communicates with the feed pipe 16 and the upper end of which is provided with a fitting 21 which carries a horizontal pipe section 22 communicating with the pipe 20 and formed at its outer end with a T-shaped union 23. An external sprayer head 24 of split annular form has its opposite ends engaged in the T-shaped union 23 whereby the sprayer head 24 is in communication with the pipe 22. The sprayer head 24 is formed with a series of inwardly and downwardly directed discharge openings 25. From this construction it is obvious that the sprayer head 24 which is in communication with the horizontal feed pipe 12 is vertically adjustable with respect to the feed pipe and with respect to the internal sprayer head 19.

In order to provide means for supporting the bottle in inverted relation over the internal sprayer head 19, a supporting member indicated generally at 26 is employed which member consists of a sleeve or nut 27 snugly fitted on the pipe or standard 15 for vertical sliding movement and maintained in vertically adjusted positions by a set screw 28. The sleeve or nut is provided with a plurality of upstanding diverging arms 29 which are connected at their upper ends by a split ring 30, the ends of which are spaced apart to define a receiving space 31, the purpose of which will be hereinafter fully set forth. Under this arrangement it will be seen that the bottle is adjustably sup-

ported from the pipe 15 and with respect to the sprayer head 19, while the sprayer head 24 is vertically adjustable with respect to the bottle and sprayer head 19. These adjustable features are designed to compensate for bottles of various sizes.

In use and operation of the device, the water or other cleansing fluid which is supplied to the pipe 12 is fed to the sprayer heads 19 and 24 respectively through the pipe 15 and through the pipes 16, 20 and 22. The bottle supporting member 26 and the external sprayer head 24 are relatively adjustable to the size of the bottles being washed so that the operator inverts and inserts the bottle B through the annular sprayer head 24 and over the internal sprayer head 19, the breast of the bottle being supported by the split ring 30 of the supporting member 26. The water or cleansing fluid discharged through the sprayer head 19 acts upon the interior of the bottle, while the water or cleansing fluid discharged from the discharge openings 25 acts upon the exterior of the bottom and the outer sides of the bottle.

When not in use the base may be removed from the remainder of the device, and the annular sprayer member may be either swung downwardly to the dotted line position illustrated in Fig. 2 or removed by unthreading the T-shaped union 23 from the pipe section 22. Preferably the vertical pipe section 20 which is telescopically received by the pipe section 16 is merely retained in its vertically adjusted position frictionally. When folding or collapsing the device the section 20 is fully telescoped within the section 16. The space 31 defined in the split ring 30 is designed for the pur-

pose of receiving the handle of a jug in event the device is used for washing of containers of this character.

I claim:

1. In a bottle washing device, a horizontal cleaning fluid conduit pipe having communication with a source of supply, a pair of spaced upstanding communicating pipes connected to said conduit one of said pipes being provided with an internal sprayer head and the other of which is provided with an annular external sprayer head adjustable axially with respect to the internal sprayer head and means on the pipe which supports the internal sprayer head for supporting a bottle in inverted position over the internal sprayer head and in juxtaposition with the external sprayer head, said supporting means being adjustable lengthwise of its supporting pipe whereby to compensate for variations in the size of the bottles to be washed by the device.

2. A bottle washing device comprising a base, a common horizontal supply pipe detachably carried by said base, a pair of vertical pipes communicating with said common supply pipe, an internal sprayer head at the upper end of one of said vertical pipes, a telescopically associated pipe section carried by the other vertical pipe and communicating therewith, a horizontal annular sprayer head carried by and communicating with the upper end of the vertically adjustable pipe, and a member for supporting a bottle in an inverted position over the internal sprayer head, said member carried by and vertically adjustable on the vertical pipe of said internal sprayer head.

GEORGE HUSS.