July 9, 1957 A. L. LE FEBVRE ET AL 2,798,230

DISPENSER

Filed July 11, 1955

Fig. 1.

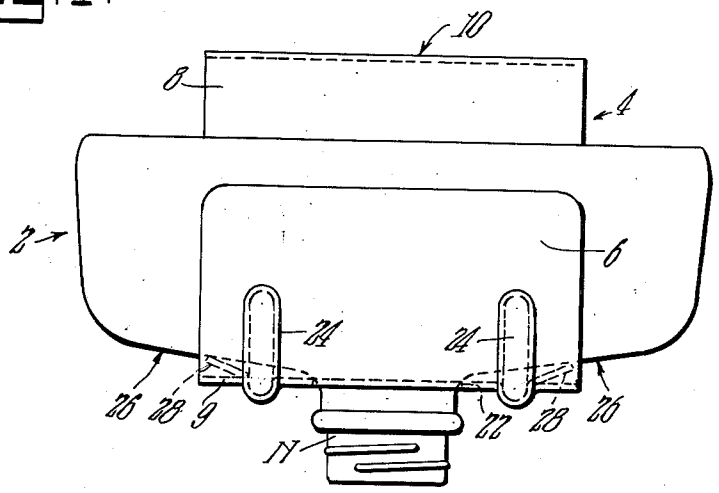


Fig. 2.

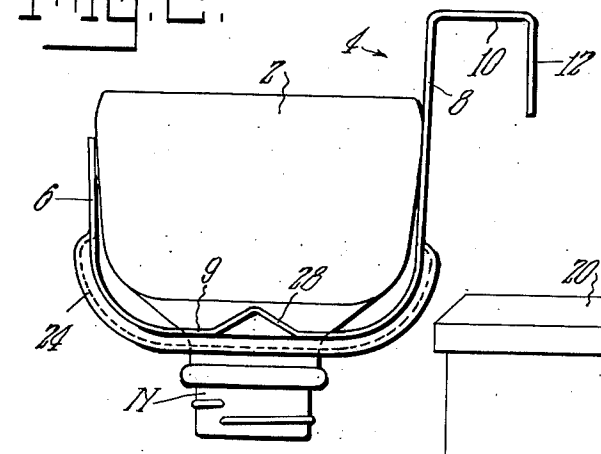
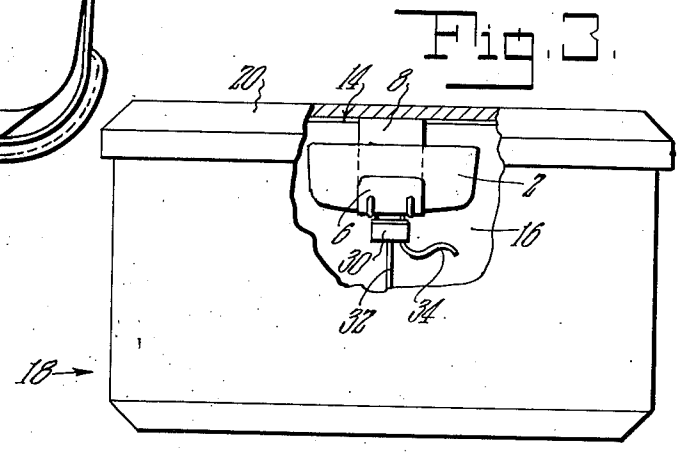


Fig. 3.



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DISPENSER

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1 Claim. (Cl. 4—227)

This invention relates to dispensers for detergents and is directed particularly to a dispenser for a detergent and a holder therefor for positioning the dispenser in a toilet water tank.

The principal objects of the invention are directed to a detergent dispenser in the form of a bottle and a holder for suspending the bottle in an inverted position in the tank of a toilet for the dispensing of the detergent.

According to novel features of the invention, the holder is constructed and arranged to releasably receive and hold the dispensing bottle in such a manner that the bottle may be readily and easily removed for filling or replacement, while at the same time, the bottle is held against displacement for its dispensing function.

All of the above cited objects, I accomplish by means of such structure and relative arrangement of parts thereof, as will fully appear by a perusal of the description below and by various specific features which will be hereinafter set forth.

To these above and other ends, and with the foregoing and various other and ancillary features and advantages and objects of my invention as will become more readily apparent as the description proceeds, my invention consists in certain features of novelty, in a mode of operation, and in the combination, organization, and arrangement of parts as will be hereinafter more particularly pointed out in the claim hereunto annexed and more fully described and referred to in conjunction with accompanying drawings wherein:

Fig. 1 is a front elevational view of a dispensing bottle and holder embodying the novel features of the invention;

Fig. 2 is an end elevational view of the bottle and holder shown in Fig. 1; and

Fig. 3 is a front elevational view of a toilet tank having the bottle and holder of the invention associated therewith.

Referring now to the drawings more in detail, the invention will be fully described.

The dispensing bottle and holder of the invention are represented by 2 and 4 respectively the former of which may be of glass and the latter of which may be of thin metal having some degree of resiliency.

The holder 4 is in the form of a bracket bent to provide a U having front and rear walls 6 and 8 respectively and a bottom wall 9.

The rear wall 8 has an outwardly extending ledge 10 on the upper end thereof, which ledge terminates in a depending lip 12.

The ledge 10 of the bracket is adapted to rest on the upper edge 14 of a tank wall such as the rear wall 16 of a toilet tank 18, whereby it is supported beneath the tank cover 20.

The bottom wall 9 of the bracket is provided with an opening 22 for the passage therethrough of the neck N of the bottle 2.

Longitudinally spaced beads 24 are formed in the bottom wall and adjacent portions of the front and rear

walls of the bracket for purposes of stiffening the bracket.

The bottle wall portions, adjacent opposite sides of the neck, incline outwardly from the neck, as at 26 in Fig. 1.

In the inverted position of the bottle, as shown, it is held against displacement in the holder by end portions 28 of the bottom wall 9 of said holder.

Said portions 28 are upset from the wall 9 so as to engage the inclined wall portions 26 of the bottle to function as retainers and to hold the bottle against tilting.

The front and rear walls of the bracket are arranged to yieldingly embrace the side walls of the bottle whereby, in conjunction with the retaining portions 28, the bottle is held in inverted position by the bracket but may be readily removed for replacement or refilling.

The bottle is provided with a cap 30 and tubes 32 and 34 for the dispensing function, in a water tank, as shown in Fig. 3.

The bottle is arranged for the ready dispensing of a detergent therein when in its inverted position and the bracket is arranged for association with a toilet tank to releasably receive and support the bottle against unwanted displacement and to permit removal of the bottle for replacement or refilling.

The invention may be embodied in other specific forms without departing from the essential characteristics thereof. Hence, the present embodiments are therefore to be considered in all respects merely as being illustrative and not as being restrictive, the scope of the invention being indicated by the appended claim rather than by the foregoing description, and all modifications and variations as fall within the meaning and purview and range of equivalency of the appended claim are therefore intended to be embraced therein.

What it is desired to claim and secure by Letters Patent of the United States is:

Apparatus for dispensing detergent in the water tank of a toilet having a vertical wall provided with an upper horizontal edge comprising, a unitary bracket formed from relatively thin sheet metal and a bottle, said bracket having a rear wall for disposition against the rear wall of a tank and provided at the upper end thereof with a rearwardly extending ledge for overlying the upper edge of the rear wall of the tank and a downwardly extending lip at the rear edge of the ledge for disposition rearwardly of the rear wall whereby said bracket is suspended from the rear wall, a longitudinal bottle-supporting bottom wall extending forwardly and horizontally from the lower portion of the rear wall and provided intermediate opposite ends thereof with an opening to receive the neck of a bottle and a front wall extending vertically upwardly from the forward portion of the bottom wall, said bottle being in inverted relation between the rear and front walls of said bracket and having rear and front walls in engagement with the rear and front walls of said bracket and a longitudinal lower wall adjacent the bottom wall of said bracket provided with a neck intermediate opposite ends thereof extending through the opening in the lower wall of said bracket, the lower wall of said bottle having portions inclining longitudinally from opposite sides of the neck thereof upwardly and away from the bottom wall of said bracket, and opposite end portions of the bottom wall of said bracket being upwardly displaced to engage the inclining portions of the lower wall of said bottle to support said bottle against tilting movements longitudinally relative to the bottom wall of said bracket.

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