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2,200,024

SOAP DISPENSER

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Fig. 1.

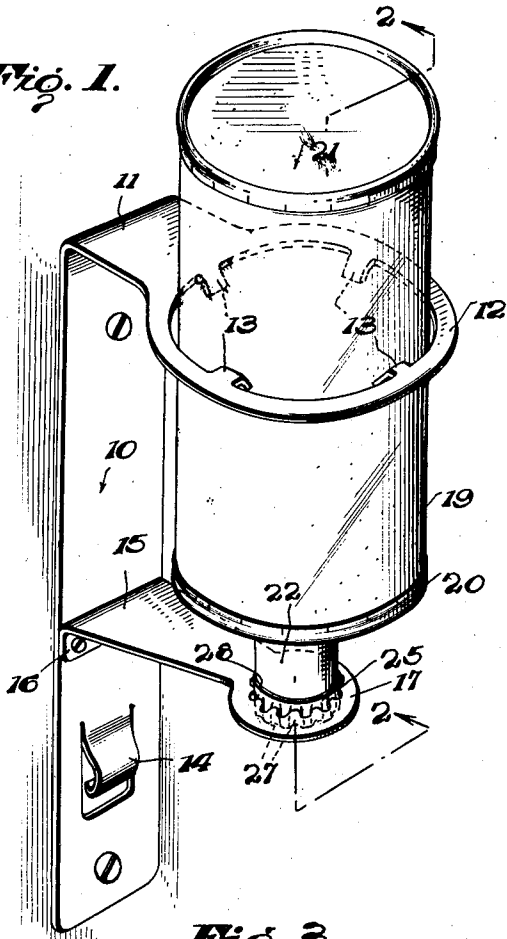


Fig. 2.

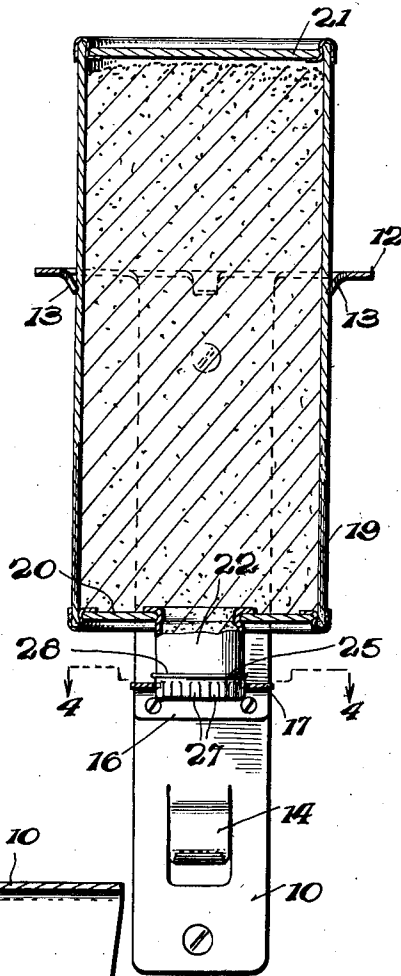


Fig. 3.

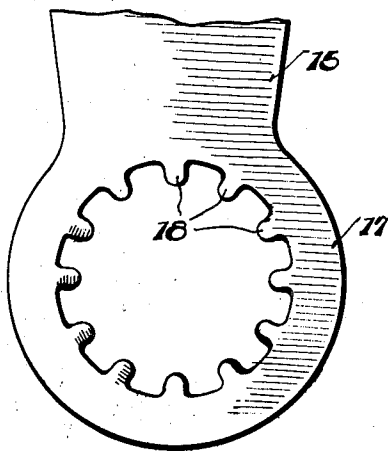
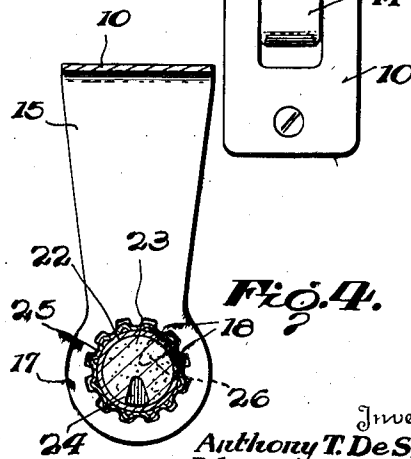


Fig. 4.



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334

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SOAP DISPENSER

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Application May 19, 1939, Serial No. 274,642

5 Claims. (Cl. 221-64)

This invention relates to an improved soap dispenser of the character disclosed in our co-pending application for a like invention, filed January 6, 1939, Serial No. 249,648.

5 An object of the present invention is to provide a simplified structure such as will embody no small parts to become displaced or lost.

A further object of the invention is to provide a bracket embodying an improved supporting arm for sustaining the soap container in inverted position upon the bracket, and wherein the container may be readily slipped downwardly into the bracket to actively engage said arm, without the necessity of adjusting any parts.

15 And the invention seeks, as a still further object, to provide a bracket arm having lugs thereon engageable in grooves in the container cap for locking the cap stationary so that the container may be manually turned to either open or closed position, and wherein the cap will co-act with said lugs for sustaining the weight of the container.

Other and incidental objects of the invention will appear during the course of the following description, and in the drawing:

Figure 1 is a perspective view of our improved soap dispenser.

Figure 2 is a transverse vertical sectional view on the line 2-2 of Figure 1.

30 Figure 3 is an enlarged fragmentary plan view showing the head of the supporting arm of the bracket employed.

Figure 4 is a transverse horizontal section on the line 4-4 of Figure 2.

35 In carrying the invention into effect, we employ a supporting bracket which may be of suitable resilient sheet metal and embodies a back plate 10 at the upper end of which is a forwardly projecting arm 11 carrying a retaining ring 12 having circumferentially spaced downwardly inclined spring tongues 13 at its inner periphery, the parts enumerated being preferably an integral structure. If desired, the free ends of the tongues 13 may be dished or curved to engage a cylindrical surface. Suitable openings are provided in the back plate 10 to receive screws or the like for mounting the bracket and struck from said plate is a hook 14 with which the cap of a bottle may be engaged for removing the cap in the well known manner.

50 Fixed to the back plate 10 of the bracket is a tapered forwardly projecting supporting arm 15 disposed below the ring 12 in spaced parallel relation thereto. The arm 15, like the back plate 10 and integral parts, is also preferably of suit-

able resilient sheet metal and is provided at its base end with a flange 16 which is secured to the plate 10 as by suitable rivets, screws, or in any other approved manner. Formed on the outer end of the arm 15 is a wrench ring 17, seen 5 in detail in Figure 3 of the drawing. As will be observed, this ring is provided at its inner periphery with a plurality of circumferentially spaced radial wrench lugs 18, preferably rounded at their free ends. 10

In conjunction with the supporting bracket, we provide a removable soap container 19 which is cylindrical. The container may be of any approved material and comprises top and bottom walls 20 and 21 in the former of which is axially fixed a discharge neck 22. As seen in Figure 4, the neck 22 is provided with an end wall 23 in which is formed one or more suitable discharge openings 24 and appropriately swiveled upon said neck is a closure cap 25 permanently attached to the neck. This cap is provided with one or more suitable discharge openings 26 adapted to register with the openings 24 of the neck 22 and formed on the cap at its outer periphery is a series of circumferentially spaced grooves 27 con- 25 tracted at their lower ends and also blocked by a circular flange or bead 28 on the lower margin of the cap. As will be perceived, the grooves 27 are spaced apart to slidably and removably receive the lugs 18 of the wrench ring 17. 30

It is now to be noted that the container 19 is disposed in inverted position upon the supporting bracket, the container being received through the retaining ring 12 and supported by the lugs 18 of the ring 17. Thus, the container may be 35 readily slipped into the bracket to engage the cap 25 with said lugs, when the container will be supported in operative position. The lugs 18 will, of course, serve to lock the cap against turning movement so that, as will now be seen, the upper end of the container may be manually grasped and rotated in one direction to dispose the discharge openings 24 and 26 in registration for the discharge of soap powder from the container, or in the opposite direction to closed position. The 40 tongues 13 are provided to yieldably engage the cylindrical wall of the container more or less gently but with sufficient pressure to provide a braking action on the container such as will prevent undesired free rotation thereof. Accidental waste of the soap powder will thus be obviated. Furthermore, the tongues 13 will accommodate any slight structural inclination of the neck 22 from the vertical. 45 50 55

Having thus described our invention, we claim:

1. A soap dispenser including a bracket having a projecting arm and a retaining element above said arm, the arm being provided with means thereon to engage and lock a container cap, and an inverted container rotatably retained by said element and provided with a rotatable closure cap engaged and locked by said means for rotatably supporting the container for turning movement to open or closed position.
 2. A soap dispenser including a bracket having a projecting arm and a retaining element above said arm, the arm being provided with means thereon to slidably and removably receive and lock the cap of an inverted container lowered into operative position upon the bracket, and an inverted container rotatably retained by said element and provided with a rotatable closure cap engaged and locked by said means for rotatably supporting the container for turning movement to open or closed positions.
 3. A soap dispenser including a bracket having a projecting arm and a retaining element above said arm, the arm being provided with a wrench lug thereon to engage and lock a container cap, and an inverted container rotatably retained by said element and provided with a rotatable closure cap having a groove therein engaged by said lug to lock the cap and rotatably support the container for turning movement to open or closed positions.
 4. A soap dispenser including a bracket having a projecting arm and a retaining ring above said arm, the arm being provided with a wrench ring having internal radial lugs thereon to engage and lock a closure cap, and an inverted container rotatably retained by said retaining ring and provided with a rotatable closure cap received by said wrench ring and having grooves therein engaged by said lugs to lock the cap and rotatably support the container for turning movement to open or closed positions.
 5. In a soap dispenser, the combination of a bracket having an arm provided with a wrench lug to engage and lock a closure cap, and an inverted container provided with a rotatable closure cap having an external groove therein slidably and removably receiving said lug to lock the cap and support the container for turning movement to open or closed positions.

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