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SOLVENT OR DISINFECTANT DISPENSER

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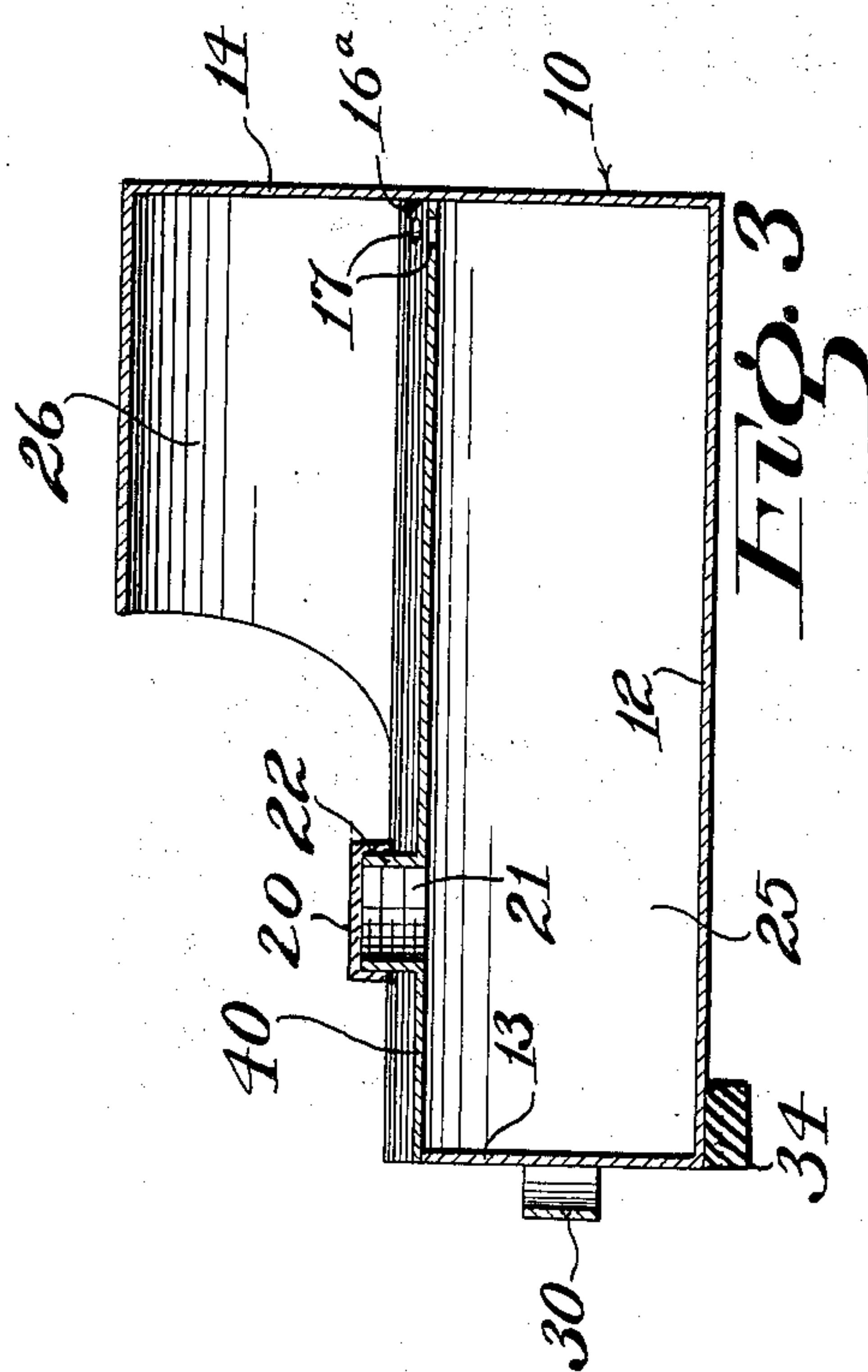
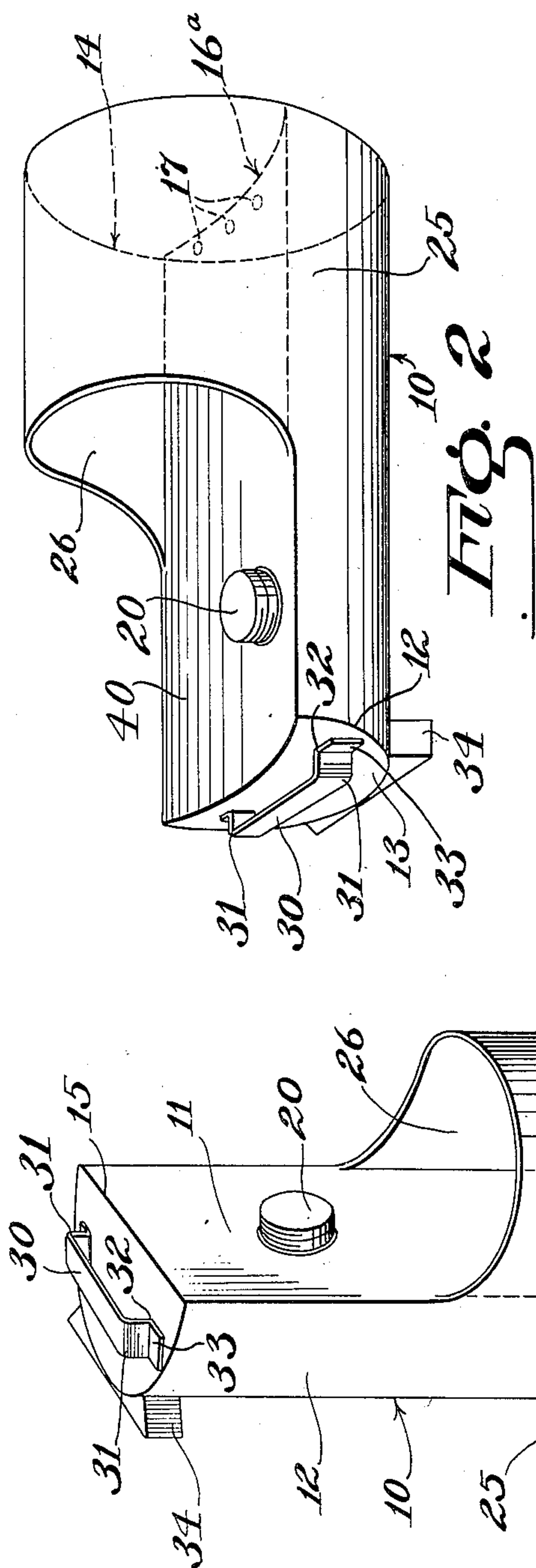


Fig. 3

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SOLVENT OR DISINFECTANT DISPENSER

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4 Claims. (Cl. 222-126)

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This invention relates to a dispenser for disinfectants, solvents and the like. An object of the invention is the provision of a container which is adapted to dispense a predetermined quantity of solvent or disinfectant into a pocket container so that a mop may be inserted into said pocket for saturation with the disinfectant and applied to various equipments employed in homes and hotels for the sterilization of such equipment.

Another object of the invention is the provision of a container for supplying a pocket incorporated in said container with a predetermined quantity of solvent or disinfectant for cleansing and sterilization of various equipment in homes and hotels, said pocket having an open end for the reception of an applicator for the solvent or disinfectant, the container being so constructed that the liquid in said container will flow into the pocket when the said container is in a vertical position, but said disinfectant will return to the container when placed in a horizontal position.

A further object of the invention is the provision of a solvent or disinfectant dispenser in which a container forming a storage tank for the disinfectant has passages adjacent the bottom for supplying an attached pocket with the disinfectant when the container is disposed vertically, one face of the container being relatively flat and provided with the restricted passages where the pocket is attached, said face having a closed opening above the pocket for filling said container with disinfectant when the container is disposed horizontally, the upper end of the pocket being open for the reception of a mop which is employed for applying the disinfectant to various equipments in homes or in hotels.

The invention consists in the novel construction, arrangement and combination of parts hereinafter more particularly described and claimed.

In the drawings:

Figure 1 is a view in elevation of a disinfectant dispenser showing one form ready for use.

Figure 2 is a longitudinal view of a modified form of the dispenser, showing the same in a horizontal position, and

Figure 3 is a longitudinal vertical section of the dispenser shown in Figure 2.

Referring more particularly to Figure 1 of the drawings, 10 designates generally a container which has a relatively flat face 11 and a semi-

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cylindrical portion 12 closed by the flat face. The upper end of the container has a semi-circular closure 13. The lower portion of the container has fixed thereto a circular bottom 14.

The flat face 11 extends from the straight side 15 of the closure 13 to the bottom 14 where it is sealed to said bottom along a diameter thereof in any approved manner as shown at 16. A plurality of feeder passages 17 are formed in the bottom of the face 11 for a purpose which will be explained presently. A removable filler cap 20 is employed for closing an inlet passage 21 (Figure 3). This passage is embraced by a threaded collar 22 upon which the cap is screwed.

The lower portion of the container is cylindrical as shown at 25 and includes a pocket 26 for the reception of a mop since the plate or face 11 divides the cylindrical portion is two half-sections. The pocket 26 is open at its upper end through which the mop is inserted. The bottom 14 is common to the lower end of the container and the pocket.

A strap 30 forms a handle for conveying the container. The ends of the strap are bent at 31 and again at 32 and the free ends 33 of the strap are secured to the close 13.

A foot 34 is secured to the curved upper end of the container. The inner face of the foot is cut-away along an arc which conforms to the curvature of the semi-cylindrical container so that said foot will be received neatly by the container. The outer face of the foot is flat for retaining the container in a predetermined position when placed in a horizontal position on a support. Said foot is secured to the container in any approved manner.

Referring more particularly to Figures 2 and 3, it will be seen that substantially the same construction is employed except for the modified form of the plate 40 which is curved transversely to provide a substantial gutter for draining excess liquid to the pocket. The threaded collar or hollow boss 22 is located at the lower level of said plate.

Since all of the remaining elements of the dispenser shown in Figures 2 and 3 are identical with the similarly positioned elements of Figure 1, the same reference numerals will be employed for the like elements. It will be noted, however, that the curved plate 40 will cut the bottom 14 along an arc which represents the bottom edge 16a of said plate.

In use, the dispenser is placed in a horizon-

tal position as shown in Figures 2 and 3 for the purpose of filling the container 25 with a liquid solvent or disinfectant. The cap 20 is removed and the container is then supplied with the liquid after which the cap is replaced.

The handle is grasped and the dispenser is elevated to the vertical position shown in Figure 1 whence the liquid in the container 25 will be fed to the pocket 26 by the perforations 17 until the liquid in said container and pocket stands at the same level. A mop is inserted into the pocket 26 and saturated with the solvent or disinfectant. As the liquid is removed by the mop from the pocket, the perforations 17 will supply additional liquid to said pocket until a uniform level of the liquid in said pocket and container is had.

When the dispenser is placed in a horizontal position (Fig. 2) any liquid that spills over the collar during the filling will flow by gravity into the pocket 26 because the foot 34 raises the upper end of the container above the level of the lower end thereof. The curved plate 40 (Figs. 2 and 3) tends to prevent spilling of the liquid over the side edges of the plate and acts as a gutter for directing the liquid into the pocket.

After the sterilizing operation has been completed with the mop, the dispenser is tilted at the proper angle to the vertical to permit the liquid in the pocket to drain back to the container 25 through the perforations 17. The dispenser is then retained in a horizontal position.

If it is desired to empty the container 25, the cap 20 is loosened, and the dispenser is tilted sufficiently to the right in Figure 1, so that the liquid may be poured from the open end of the pocket with the liquid in the container draining through the perforations 17.

The semi-cylindrical wall of the pocket 26 may be made separately from the semi-cylindrical wall of the container 25. On the other hand, the device may be formed by cutting away a semi-cylindrical vertical section at the upper portion of a cylindrical shell, thereby leaving a semi-cylindrical upper section having free side edges and a lower cylindrical section having a circular base. The plate 11 or 40 has the upper portion of its side edges sealed to the free side edges of the semi-cylindrical section, the remaining portions of the side edges of plate being sealed to the inner wall of the cylindrical section at diametrically opposite points. The bottom 14 and the top 13 are sealed at their peripheries to the respective adjacent ends of the cylindrical section and the semi-cylindrical section of the shell.

I claim:

1. A dispenser comprising a container having a transversely curved face, a pocket projecting from said face at the lower end of the face separating the pocket from the container and provided with perforations at the lower end thereof for feeding liquid from the container to the pocket when said container is in an elevated position, said curved face above the pocket having a liquid supply passage and a cap for closing said passage.

2. A dispenser comprising a vertical container having a semi-cylindrical wall, and a curved plate sealed to the side edges of the wall, a closure for the top of the container, a circular bottom sealed to the lower edge of the wall with the lower edge of the plate sealed to the circular bottom substantially along a diameter of said bottom, and a pocket having a wall of cylindrical shape sealed at its side edges to the lower portions of the side edges of the semi-cylindrical wall of the container, the lower edge of the pocket being sealed to the remaining peripheral edge of said circular bottom, said curved plate being provided with perforations for feeding liquid from the bottom of the container to the bottom of the pocket, the plate above the pocket having a filler opening and a foot projecting from the semi-cylindrical wall at the end opposite said pocket for raising said end above the level of the lower end of the pocket when the container is disposed in a horizontal position.

3. A dispenser comprising a vertical container having a semi-cylindrical wall, and a transversely curved plate sealed to the side edges of the wall, a closure for the top of the container, a circular bottom sealed to the lower edge of the wall with the lower edge of the plate sealed to the circular bottom, substantially along a diameter of said bottom, and a pocket having a wall of cylindrical shape sealed at its side edges to the lower portions of the side edges of the semi-cylindrical wall of the container, the lower edge of the pocket being sealed to the remaining peripheral edge of said circular bottom, said plate being provided with perforations for feeding liquid from the bottom of the container to the bottom of the pocket, the curved plate above the pocket having a filler opening.

4. A dispenser comprising a container having a substantially flat face, a pocket projecting from said face at the lower end of the container, the lower end of the face separating the pocket from the container and provided with perforations at the lower end thereof for feeding liquid from the container to the pocket when said container is in upright position, said face above the pocket having a liquid supply opening and a closure therefor, and a foot on said container at the upper end thereof, positioned upon the side opposite from said pocket, whereby the upper end of the container will be raised to a level above the lower end of the pocket when the container is disposed in a horizontal position.

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