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SOAP DISSOLVER AND MIXER

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Fig. 1.

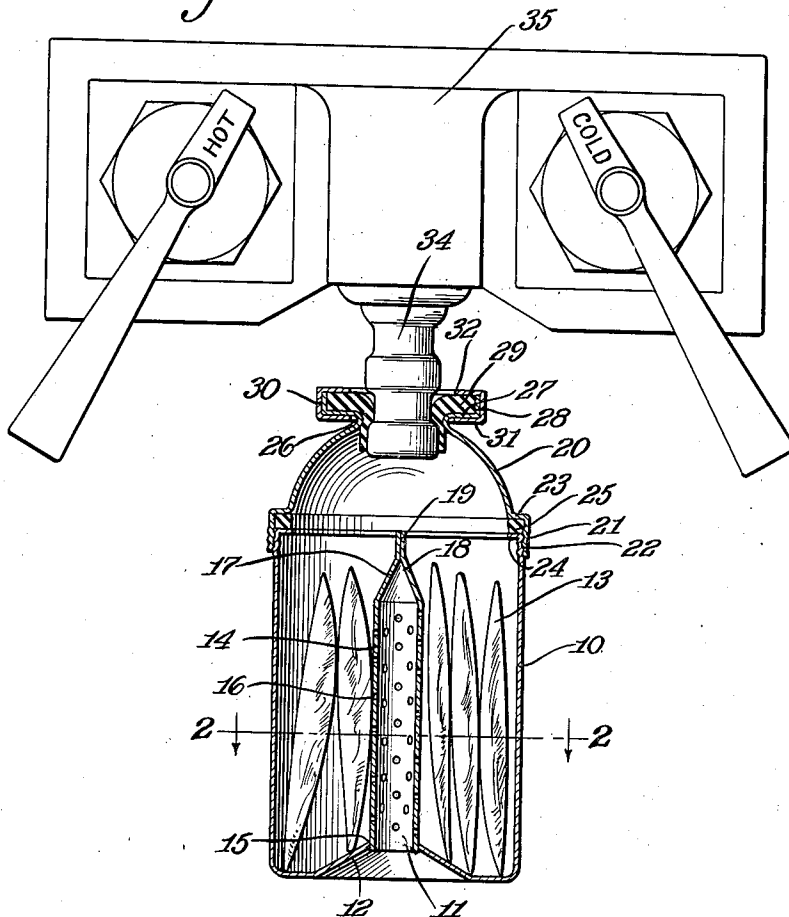
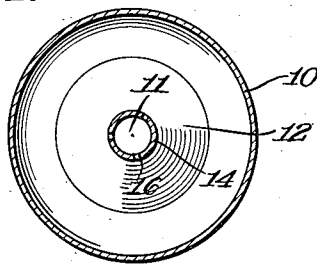


Fig. 2.



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SOAP DISSOLVER AND MIXER

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1 Claim. (Cl. 299—83)

This invention relates to a soap dissolver and mixer and has for an object to provide a device for storing small pieces of soap rendered too small for hand use and utilizing the same for bath water by slipping the inlet onto preferably the hot water faucet of a bathtub fixture.

A further object is to provide a device of this character in which the container is upset at the center of the bottom to retain some water therein and maintain the soap soft by moisture.

A further object is to provide a device of this character in which the container is provided with a centrally located perforated tube through which the soapy water may escape from the container, the tube having the upper end closed and shaped to form a spreader for the incoming hot water.

A further object is to provide a device of this character which will be formed of a few strong, simple and durable parts, which will be inexpensive to manufacture, and which will not easily get out of order.

With the above and other objects in view the invention consists of certain novel details of construction and combinations of parts hereinafter fully described and claimed, it being understood that various modifications may be resorted to within the scope of the appended claim without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawing forming a part of this specification:

Figure 1 is a longitudinal sectional view of a soap dissolver and mixer constructed in accordance with the invention and shown applied to a bathtub fixture.

Figure 2 is a cross sectional view taken on the line 2—2 of Figure 1.

Referring now to the drawing in which like characters of reference designate similar parts in the various views, 10 designates a cylindrical container 10, preferably formed of metal and provided in the bottom wall thereof with a central opening 11, the top of the container being fully open. The central portion of the bottom wall of the container is up-raised in frustum form as shown at 12 so as to adapt the container to retain some water in the bottom to keep thin pieces of soap 13 soft. The soap may be small pieces rendered too small for hand use but still serviceable. Bath salts may also be used in the container.

A tube 14 is arranged in the axial center of the container. The lower end of the tube is fully open and is secured within the opening 11 in the

bottom wall of the container by solder 15, or other means.

The tube is provided with a plurality of perforations 16 in the side wall, these perforations being too small to permit particles of soap being forced from the container into the tube. The upper end 17 of the tube is closed and is so shaped as to provide a substantially conical spreader 18 having a straight tip 19 to divert water entering the container and spread the same laterally over the pieces of soap.

A removable bell-shaped cap 20 closes the top of the container and is provided with a knurled flange 21 which is screw-threadedly engaged with the side wall of the container as shown at 22. The cap is provided above the flange 21 with a flange 23 disposed in a plane at a right angle to the axis of the cap and this flange co-acts with a flange 24 formed on the top of the container to compress a gasket 25 which forms a leak-proof connection between the cap and the container.

The cap is provided at its upper end with a neck 26 having an integral laterally extending flange 27 provided at the peripheral edge with an upstanding flange 28.

A gasket 29 is confined in the neck and within the enclosure of the flanges 27 and 28 by a metal rim 30 having a bottom flange 31 which is clamped underneath the flange 27 of the neck and having a top flange 32 which is engaged against the top face of the gasket 29. The top flange of the ring is provided with an annular depressed rib 33 which is imbedded in the top face of the gasket.

In operation after the container has been filled with pieces of soap the neck of the container is inserted upon the spout 34 of a conventional bathtub fixture 35 having the usual cold and hot water faucets. The gasket 32 snugly engages the outer surface of the spout and forms a leak-proof connection between the spout and the neck 26 of the container. Preferably hot water is let into the container by opening the hot water faucet, the water being spread laterally by the deflecting top wall 17 of the tube to pass downward between the pieces of soap 13 in the container and dissolve the soap and mix the same with the water which escapes from the container through the perforated axial tube 14.

From the above description it is thought that the construction and operation of the invention will be fully understood without further explanation.

What is claimed is:

A soap dissolver and mixer comprising, a con-

tainer provided in the bottom wall with a central opening, the central portion of the bottom wall being provided with a frustum shaped upset at said opening so as to adapt the container to retain water to a predetermined level in the bottom of the container to keep pieces of soap in the container soft, a removable cap closing the upper end of the container, the cap being provided with an opening for the reception of the end of a

5 faucet, and a tube arranged in the axial center of the container, the lower end of the tube being fully open and secured within the opening in the frustum shaped upset of the bottom of the container, the side of the tube being perforated and the upper end of the tube being closed and disposed within said cap to form a spreader for water entering the container.

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