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M. B. FEINSON
SUPPORT FOR SOAP DISPENSERS

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2 Sheets-Sheet 1

Fig. 1.

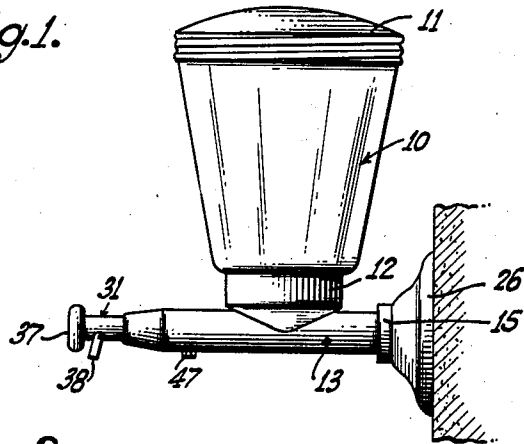


Fig. 2.

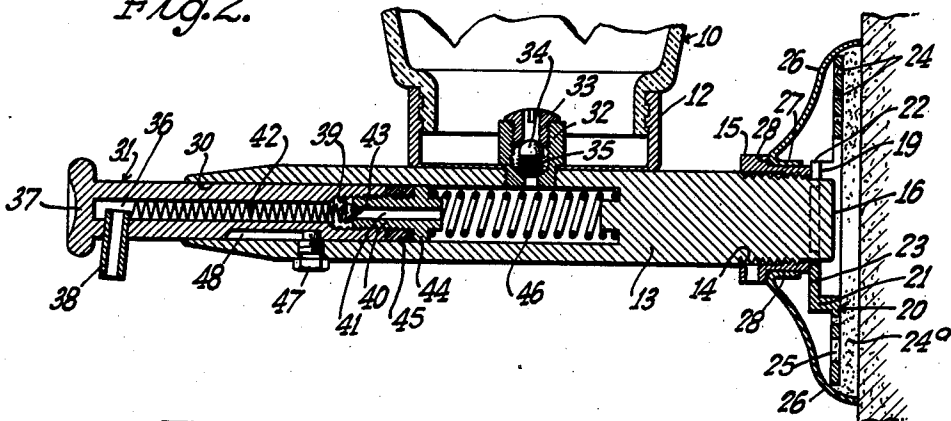
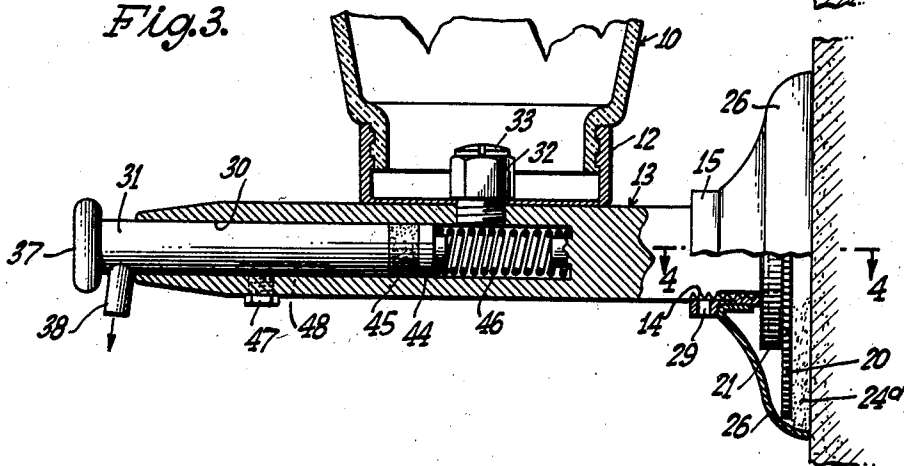


Fig. 3.



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SUPPORT FOR SOAP DISPENSERS

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3 Claims. (Cl. 248-224)

This invention relates to soap dispensing devices, designed to dispense liquid soap.

It is an object of this invention to provide a new and improved dispenser which will be simple in construction and efficient in operation.

It is a further object to provide a dispenser which may be attached to a wall or the like by an adhesive without the necessity of drilling or otherwise defacing the wall but which nevertheless will adhere firmly under all conditions of use.

It is a further object to reduce to a minimum the liability that the dispenser will be removed by pilferers by making the attaching means unobvious and inconspicuous.

The invention accordingly comprises an article of manufacture possessing the features, properties, and the relation of elements which will be exemplified in the article hereinafter described and the scope of the application of which will be indicated in the claims.

For a fuller understanding of the nature and objects of the invention, reference should be had to the following detailed description, taken in connection with the accompanying drawings, in which:

Figure 1 is a side elevation of a device embodying this invention.

Figure 2 is a central section through the operating mechanism parallel to the plane of Figure 1 with the plunger in the out position.

Figure 3 is a similar view with the plunger in.

Figure 4 is a horizontal section through the attaching means on the line 4-4 of Figure 3.

Figure 5 is a section on the line 5-5 of Figure 4.

In the drawings the numeral 10 represents a container for liquid soap having a removable cover 11 through which it may be filled. This container is supported on and screwed into a base 12 carried upon an outstanding stud 13 which carries the dispensing mechanism.

As illustrated in Figures 2 to 5, the inner end of the stud 13 is screw threaded upon its exterior as shown at 14 to receive a nut 15 and is provided with a projecting end 16 (see Figures 4 and 5), having parallel vertical slots on its two sides, as shown at 17. These slots are of a depth to provide a neck 18 of the same width as a slot 19 in a plate 20.

The plate 20 is adapted to rest against and to be fastened to the wall and has a central raised boss 21 having an open top 22 and an outer face 23 in which slot 19 is cut.

Within the broad scope of this invention the

plate 20 may be attached to the wall in any convenient manner, but in the special form illustrated it is adapted to be attached by an adhesive.

Attempts to attach such devices by an adhesive have not heretofore been very successful because they tend to break loose during use. In accordance with my invention I have solved this problem satisfactorily. I provide a large number of perforations 24 in the plate and apply the adhesive 24a liberally so that portions thereof penetrate into the holes. These holes serve a double purpose serving as openings through which the adhesive can dry, thus furnishing little rings of thoroughly dried adhesive around each opening and, also, the adhesive which penetrates the holes serves as an anchor to prevent the metal from breaking away from the glue.

The plate 20 may also be provided with holes 25 for screws if the dispenser is used in a location where such form of attachment is desired.

In attaching the dispenser, the plate 20 is first secured in place with the open end 22 upward, the nut 15 is then screwed back on screw thread 14 and an ornamental collar 26 slipped over the stud which, as shown, has a shoulder 27 adapted to be engaged by a shoulder 28 on nut 15. The neck 18 is then inserted in slot 19, the collar 26 slipped over the plate 20 to conceal it and the nut 15 tightened down on collar 26 to hold the parts in place. In order to conceal the form of attachment the nut 15 is round and is provided with a single radial hole 29 in which may be inserted a suitable pin for turning the nut, it being so arranged as to extend downwardly when tightened in place so that it will not be evident.

As will be seen from Fig. 2 the nut 15 is preferably provided with screw threads on one end only, being large enough throughout the remainder of its bore to fit over the screw threads on the stud so that it may be turned forward on the stud 13 to permit the parts to be assembled and then screwed tightly against the shoulder 27 without exposing the screw threads 14 to view.

The outer end of stud 13 is provided with a central bore 30 to receive a plunger 31 and operating parts. The container 10 is screw fitted into its base 12 and communicates with the bore 30 through a hollow nipple 32 which, as illustrated, is threaded into stud 13 and serves to hold base 12 and stud 13 in engagement. Nipple 32 in turn is threaded upon its interior to hold a hollow screw 33 which confines a ball 34 pressed outwardly by a spring 35 which thus serves as a check valve, which is readily accessible by removing screw 33.

Plunger 31 is provided with a central cylindrical bore 36 terminating at one end in a closed head 37 but having outlet through a spout 38, and terminating at the other end in an enlarged threaded bore 39 adapted to receive a screw nipple 40 having a central bore 41.

A spring 42 within bore 36 presses a ball 43 against the end of screw nipple 40 to close bore 41. The screw nipple 40 has a circumferential shoulder 44 which is used to confine a special compressible washer 45 firmly against the end of plunger 31. This washer is of such size and nature that it will firmly engage the sides of bore 30 and it may be pressed outwardly to vary the pressure by screwing nipple 40. This washer is preferably made of a composition of rubber and cork which gives the resiliency without undue friction.

A spring 46 within bore 30 urges plunger 31 outwardly and a screw 47 in stud 13 projects inwardly into a groove 48 in plunger 31 to hold the plunger against rotation and limit its outward movement.

With the above construction it will be clear that the plunger 31 is normally in its out position. When pushed, the valve 34 being closed, the contents of bore 30 are discharged through spout 38, valve 43 being opened by the pressure. On the reverse stroke the valve 43 is closed, but as it closes it sucks the soap from nozzle 38 and thereafter draws soap from container 10 by opening valve 34.

It will be noted that the upper end of spout 38 is above the level of the bottom of bore 36 and this assists in preventing drip.

Since certain changes may be made in the above construction and different embodiments of the invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be

interpreted as illustrative and not in a limiting sense.

It is also to be understood that the following claims are intended to cover all of the generic and specific features of the invention herein described, and all statements of the scope of the invention which, as a matter of language, might be said to fall therebetween.

Having described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. A support for a soap dispenser comprising a stud having transverse parallel slots in one end thereof, a plate adapted to be attached to the wall having a slot constructed and arranged to receive the end of said stud between said slots therein, a collar for concealing said plate adapted to fit over said stud and a nut screwed on said stud in position to engage said collar and force it against the wall over said plate.

2. A support for a soap dispenser comprising a stud, a plate adapted to be attached to a wall having a central offset portion and having a vertical slot therein, said stud having channels cut in its sides to form a neck adapted to fit within said vertical channel and the means for concealing said plate comprises a collar fitting over the end of said stud in position to engage the wall to which the device is to be attached and a nut screwed upon said stud in position to engage the collar to force the collar against said wall and to draw the neck against the rear side of the offset portion.

3. A mechanism for attaching a soap dispenser comprising a stud, a plate adapted to be attached to the wall, a disengageable connection between said plate and said stud, a collar for concealing said plate and fitting over said stud and a nut screwed upon the exterior of said stud in position to engage said collar and force it against the wall over said plate.

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