

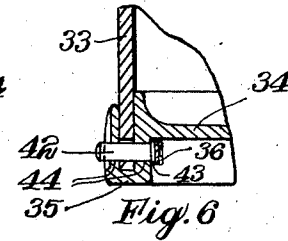
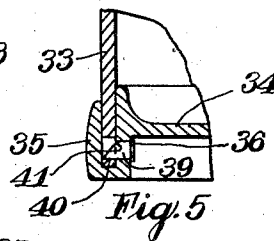
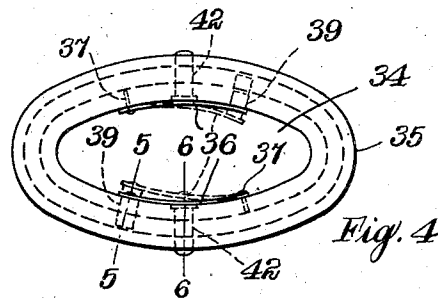
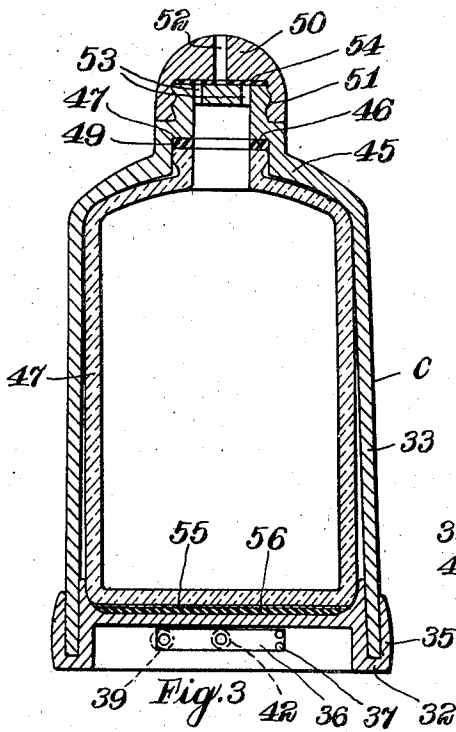
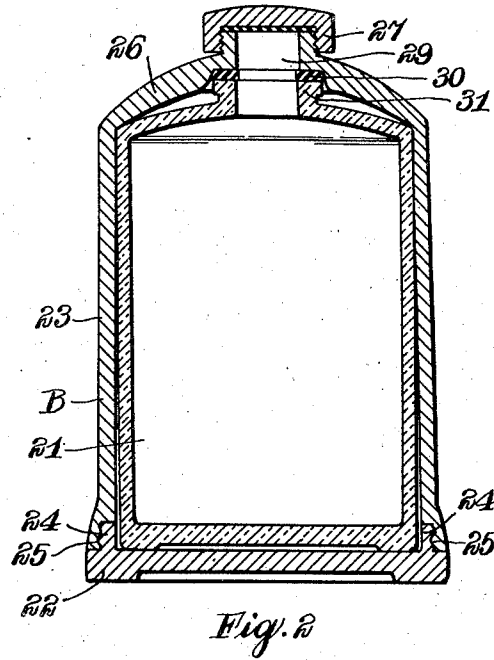
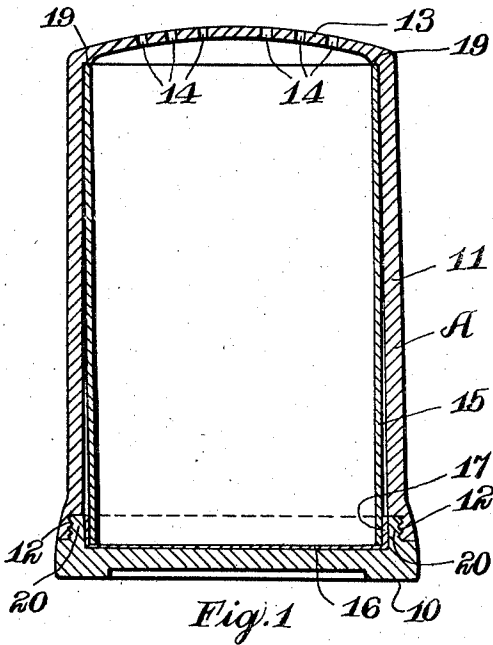
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DISPENSER

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2,137,041

DISPENSER

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7 Claims. (Cl. 221—61)

My invention relates to an improvement in dispensers wherein it is desired to provide a device capable of enclosing a package or bottle containing contents to be dispensed.

5 Prior dispensing devices have been provided suitable for containing a package of a material to be dispensed so that the package would be concealed from view. Considerable difficulty has been experienced with most of these types
10 of dispensers, however, because the package or bottle enclosed therein was not sealed within the dispenser. With these former types of devices with which I am familiar, the contents of the package or bottle may readily work around the
15 sides of the package and into the space between the dispenser and the enclosed package or bottle. An unsanitary condition is oftentimes created by this leakage.

My invention is designed to obviate these
20 former difficulties by providing a tight seal between the inner container and the outer dispenser. With this construction, none of the contents of the inner container are permitted to leak out into the body of the dispenser between
25 the inner container and the dispensing body.

It is a feature of my invention to provide a dispenser casing adapted to enclose a package such as may be used for containing powdered soap or scouring powder, and to so seal the upper
30 edge of the package with respect to the dispenser that none of the powdered material is permitted to leak out into the body of the dispenser. With such a device, it is possible to sell to the trade,
35 in inexpensive containers and to enclose these packages in an outer container to enhance the appearance of the package and to provide a convenient means of holding the same.

It is a feature of my invention to provide a
40 construction which is capable of enclosing an inner package or bottle of any predetermined configuration, and to seal the package or bottle within the outer dispenser casing.

It is a further feature of my invention to provide a gasket means for sealing the open end of the inner package or bottle and to provide a resilient means of supporting the inner package within the dispenser casing. The inner receptacle is accordingly cushionally supported within
50 the outer casing which assists in preventing leaking of the contents of the inner receptacle.

These and other features and objects of my invention will be more fully and clearly set forth
55 in the following specification and claims.

In the drawing forming a part of my specification:

Figure 1 is a cross-sectional view through one type of dispenser disclosing a package contained therein.

Figure 2 is a cross-sectional view of a slightly modified form of dispenser illustrating a bottle sealed therein.

Figure 3 is a cross-sectional view of another slightly different form of construction illustrating a bottle of oval cross-sectional shape enclosed therein.

Figure 4 is a bottom plan view of the construction illustrated in Figure 3.

Figure 5 is a detail cross-sectional view on the line 5—5 of Figure 4.

Figure 6 is a sectional detail taken on the line 6—6 of Figure 4.

The dispenser A illustrated in Figure 1 of the drawing, comprises a base portion 10, and a
20 body portion 11. The base portion and the body portion are threadedly connected at 12. A closed top 13, perforated at 14, is provided on the body 11. A container 15 for any suitable product such as scouring powder, powdered soap, or any powdered or granulated material is enclosed within the body 11. A bottom 16 is provided on the container 15. This bottom 16 is provided with an annular flange 17 which is secured to the container 15. A top is also provided for the
25 container 15 which may be similar to the bottom 16, but which is not shown in the drawing. The container is sold with this top in place and it is removed before the container is placed within the body 11 of the dispenser A. A shoulder 19
30 is provided within the body 11 against which the end of the container 15 abuts. The container is forced against this shoulder 19 by means of the threaded bottom 10 and tightly seals against the body of the container. Thus material may be shaken through the perforations 14 without leaking into the body of the dispenser outside of the container 15.

It will be noted that the base 10 is provided with an upwardly extending flange 20 closely
45 adjacent the container 15, which flange is externally threaded at 12. This construction spaces the lower extremity of the body 11 away from the bottom end of the container 15, and thus permits the container 15 to be engaged at the lower
50 end for withdrawal from the body 11. The body 11 tapers inwardly at the top and is a relatively close fit at the top of the container, whereas the container is spaced slightly from the walls at the bottom end thereof.

In Figure 2, I illustrate a container B designed for containing a bottle 21. The container B comprises a base 22 and a body portion 23. The base 22 is provided with an upwardly extending flange 24 having external threads 25 thereon engageable with cooperating internal threads at the lower extremity of the body portion 23.

The dispenser B is provided with a top portion 26 having a cover 27 threaded thereto. The cover 27 normally closes the outlet opening 29 of the dispenser B. A gasket 30 is positioned adjacent the opening 29 and seals the space between the top 26 of the dispenser B, and the top 31 of the bottle 21. The top 31 of the bottle 21 is urged against the gasket 30 by the tightening of the bottom 22 into the body 23 of the container, thus compressing the gasket 30 and sealing the space between the bottle and the dispenser B.

It will be noted that by this means the liquid or solid material contained within the bottle 21 may be dispensed when the cover 27 is removed without danger of any of the contents of the bottle leaking into the space between the bottle and the dispenser. The body 23 of the dispenser may be tapered as illustrated in the drawing to hold the bottle tightly at the upper extremity thereof.

In Figures 3, 4, 5 and 6 of the drawing, I illustrate a slightly different type of dispenser C which is designed to accommodate a bottle or package which is not round but is oval. Square, hexagonal or similar packages could be likewise contained in a manner clearly apparent. It is obvious that with this type of dispenser, the base can not be threadedly connected to the body, and accordingly I provide a quickly detachable latch arrangement for holding the two parts of the container in proper relationship.

The dispenser C comprises a base 32 and a body portion 33. The base 32 includes a bottom 34 and a channel-shaped edge 35 between the sides of which the lower extremity of the body portion 33 extends. In order to lock the body portion 33 into the channel 35, a spring strip 36 is secured by rivets 37 or other suitable means overlying the inner surface of the channel 35 as illustrated in the drawing. This strip 36 is provided with a latch 39 which is best illustrated in Figure 5 of the drawing. This latch 39 extends into a hole 40 in the lower extremity of the body portion 33 when the body portion is in proper position in the channel 35. It will be noted that the latch 39 is provided with an inclined end 41 so that as the body portion 33 is forced down into the channel 35, the strips 36 will flex inwardly as the lower extremity of the body portion 33 engages the inclined end 41 of the latch 39. When the latch 39 is engaged in the hole 40 in the body 33, it can only be released by forcing the spring strips 36 inwardly.

In order that the latches 39 may be released, I provide operating plungers 42 having a slightly enlarged head 43 thereupon extending through aligned openings 44 in the oppositely disposed sides of the channel 35. As either of the plungers 42 are pushed inwardly, the strips 36 are flexed inwardly as shown by the dotted outline in Figure 4, thus releasing the latches 39 from the openings 40. When both of the latches 39 are released from their respective openings 40, the body 33 may be removed from the base 32.

The top 45 of the body portion 33 is provided with an internal shoulder 46 against which a bottle 47 may force a gasket 48. This gasket 49 is compressed sufficiently when the bottle 47 is in

place, to provide a tight seal between the bottle 47 and the top 45 of the dispenser. A cap 50 is threadedly connected at 51 to the top 45, and this cap 50 is provided with perforations 52 which do not coincide with openings 53 through the top 45 of the dispenser C. Therefore, when the cap 50 is tightened into place, the gasket 54 therein seals the communication between the openings 52 and 53 preventing any liquid from flowing therefrom. When the cap 50 is loosened somewhat, a space is provided above the dispenser top 45 within the cap 50 so that liquid may pass through the opening 53 to the opening 52 in the cap 50.

A gasket or cushion 55 may also be positioned overlying the bottom 34. This cushion 55 is covered with a plate 56 and the bottle or internal container 47 rests upon this plate 56. The cushion 55 is resilient and accordingly acts to urge the bottle or internal container 47 upwardly against the gasket 49 to properly seal the same. The body 33 may taper if desired to fit closely against the bottle at the upper extremity thereof.

It may be seen that in all the various modifications of my construction the inner container is sealed with respect to the outer container. It is therefore apparent that no liquid or solid material may leak out between the inner container and the outer dispenser. My dispenser is therefore extremely sanitary to use and to handle.

In accordance with the patent statutes, I have described the principles of construction of my dispenser, and while I have endeavored to set forth the best embodiment thereof, I desire to have it understood that this is only illustrative of a means of carrying out my invention and that obvious changes may be made within the scope of the following claims without departing from the spirit of my invention.

I claim:

1. A dispenser comprising, a hollow inwardly tapered body portion, a base portion secured thereto, an inner container within said base and body portions, said base holding said inner container frictionally engaging said body portion throughout the entire upper periphery thereof to provide a seal between the upper edge of said inner container and said body portion.

2. A dispenser including, a hollow outer body portion having an inwardly tapering wall, a base secured thereto, a substantially cylindrical inner container frictionally engaging said tapering wall at one end thereof and shoulder means on said body portion engageable with said one end of said container to seal the connection therebetween.

3. A dispenser comprising, a body portion, a base secured thereto, a substantially cylindrical inner container having an open top enclosed within said body portion and base portion, said body portion having a perforated top through which goods may be dispensed therefrom, and shoulder means on said body portion engageable with said inner container to seal the connection between said inner container and said body portion.

4. A dispenser including, a body portion having opening means at the top thereof, a side wall portion on said body portion, a base portion engageable with said side wall portion, an inner container extending approximately the length of said side wall portion when positioned within said body portion, said side wall portion having an annular internal recess spacing the lower extremity thereof from said inner container, and

a flange on said base extending upwardly into said annular recess.

5 5. A dispenser comprising, a body portion, a base secured thereto, an inner container within said body portion and said base, and resilient latch means securing said body portion to said base.

10 6. A dispenser comprising, a hollow body portion having an inwardly tapering wall, a base portion, an inner container enclosed within said body portion and frictionally engaging the smallest diameter portion of said body, and supported by said base, and shoulder means within said body portion and means urging said inner
15 container against said shoulder means and into

frictional engagement with said body portion.

7. A dispenser comprising, a hollow inwardly tapered body portion, a base portion secured thereto, an inner container within said base and body portions having an open upper end, said
5 base holding the upper periphery of said inner container in frictional engagement with said body portion throughout the entire periphery thereof, thereby forming a seal between the inner
10 container and said body portion to prevent the contents of the inner container from passing between the inner container upper periphery and said body portion.

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