Oct. 29, 1935. W. B. DUFFY 2,019,402

MILK BOTTLE CAP

Filed July 16, 1935

Fig. 1.

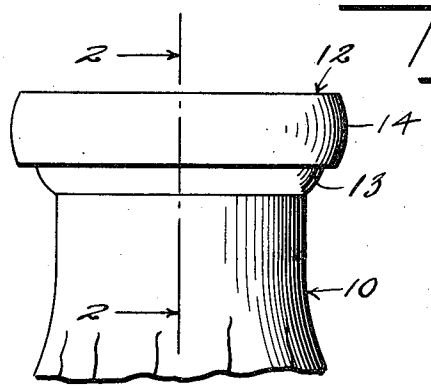


Fig. 2.

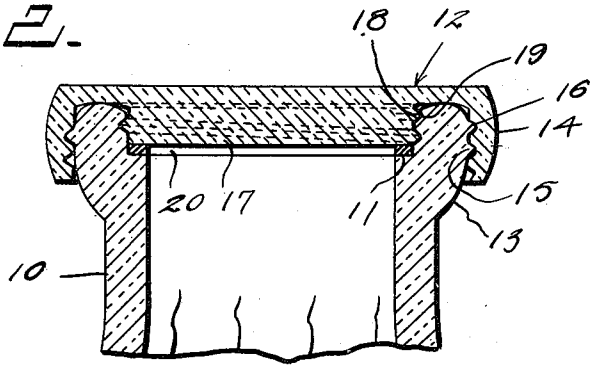


Fig. 3.

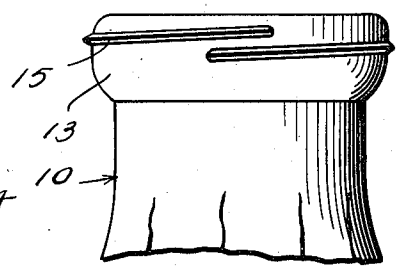
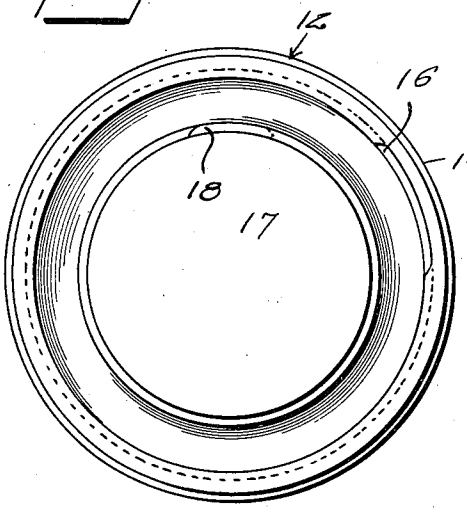


Fig. 4.



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MILK BOTTLE CAP

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3 Claims. (Cl. 215—43)

This invention relates to closures for receptacles and more particularly to a closure for a bottle of the type used for milk, cream, or the like.

An object of this invention is to provide a combination neck and closure for the neck whereby the contents of the bottle may be viewed from the top of the bottle and whereby the rim of the bottle is covered by the closure.

Another object of this invention is to provide a transparent closure which is adapted to engage threads mounted on the rim of the bottle, the threads being disposed on the inside and the outside of the rim so as to provide a seal against leakage of the contents of the bottle and to provide the seal whereby liquids or the like cannot enter the bottle from the exterior thereof.

The above and various other objects and advantages of this invention will in part be described in, and in part be understood from the following detail description of the present preferred embodiment, the same being illustrated in the accompanying drawing wherein:

Figure 1 is a detail side elevation of a closure mounted on a bottle which is shown in fragmentary side elevation.

Figure 2 is an enlarged sectional view taken on the line 2—2 of Figure 1.

Figure 3 is a fragmentary side elevation of the bottle with the cap or closure removed.

Figure 4 is a bottom plan view of the closure.

Referring to the drawing wherein like numerals of reference designate corresponding parts throughout the several views, the numeral 10 designates generally the neck of a bottle which, in the present instance, is a bottle of the type conventionally used for dispensing milk, cream, or like dairy products. This bottle 10 has a rim 13, and a seat 11 on the inside of the rim 13.

A cap, generally designated as 12, is adapted to removably engage the rim 13 of the bottle neck 10 and this cap 12 has a dependent annular flange 14 which is adapted to engage over the exterior of the rim 13. Preferably, the cap 12 is constructed of transparent material, such as glass or the like, and the rim 13 is provided with threads 15 for engagement with complementary threads 16 carried by the inside of the annular flange 14. The thread 15 is of such a character that the cap 12 may be turned to tightened condition by substantially one complete turn of the cap.

The cap 12 is also provided with a dependent plate or disc member 17, the marginal portions of which are disposed spaced inwardly from the threads 15 of the flange 14 so as to provide an annular groove on the inside of the cap to receive the rim 13 of the cap.

This disc or body member 17 is provided with threads 18 engageable with interior threads 19 carried by the rim 13. The threads 18—19 are of substantially the same pitch as the threads 15—16 so that the two threads carried by the rim 13 and the cap 12 will tighten or hold the cap 12 on the top of the neck 10. If desired, a gasket 20 may be disposed on the seat 11 so that an additional sealing means may be provided to prevent leakage of the liquid in the bottle.

In the use of this device, the cap 12 is preferably constructed of glass or like material and, if desired, the gasket 20 may be dispensed with as the threads 18—19 are so constructed as to prevent leakage of the contents of the bottle.

After the bottle has been filled with the desired liquid, the cap 12 may be tightened and the bottle then dispensed in the usual manner. The purchaser of the contents of the bottle may readily remove the cap by unscrewing the same and, if desired, the peripheral surface of the annular flange 14 may be provided with suitable serrations, or the like, to prevent slippage during the unscrewing of the cap.

Through the use of a combined bottle and cap of this character, the empty bottle will not become dirty while it is awaiting collection and the interior of the bottle can, therefore, be more readily cleansed by the seller so that a bottle having a cap constructed according to this invention will be more hygienic than bottles using the removable caps or discs.

I claim:—

1. In combination, a bottle, a rim on the neck of the bottle, exterior threads carried by the rim, interior threads carried by the rim, a cap having an annular groove to receive the rim, and threads carried by the cap on opposite sides of the groove to threadably mount the cap on the rim of the bottle.

2. A cap for a receptacle comprising an annular body having an annular groove on one side thereof and threads carried by the body on opposite sides of the groove.

3. In combination, a bottle, a rim on the top of the bottle, a seat on the inner side of the rim below the top thereof, a cap including a body having an annular groove therein to loosely receive the rim of the bottle, exterior threads carried by the rim of the bottle, interior threads carried by the rim of the bottle above the seat, and threads carried by the cap on opposite sides of the groove to threadably engage the interior and exterior threads of the rim.

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