March 29, 1960 P. KLEIN 2,930,502

COMBINATION BOTTLE AND HANDLE ATTACHMENT

Filed May 22, 1957

Fig. 1.

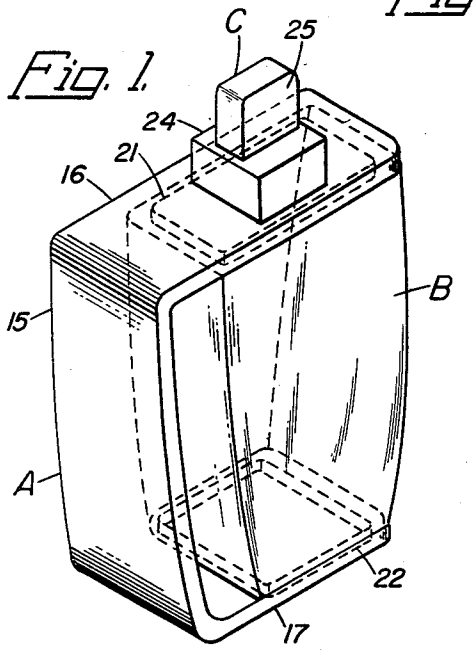
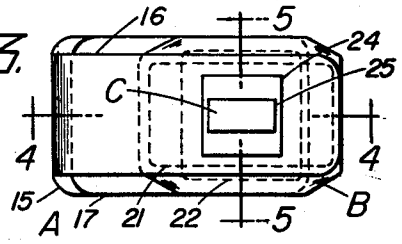


Fig. 3.



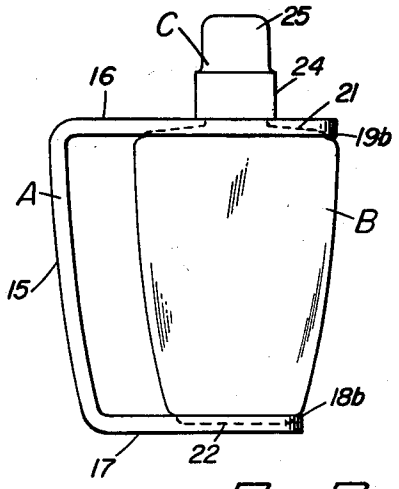


Fig. 2.

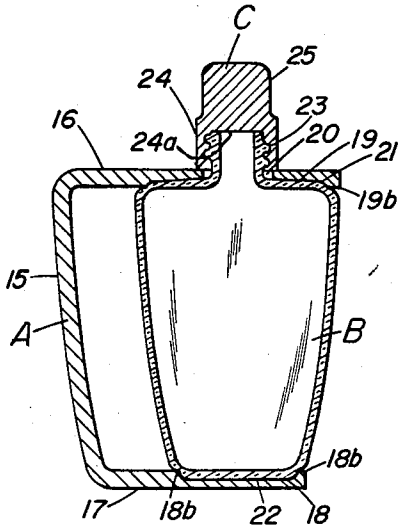


Fig. 4.

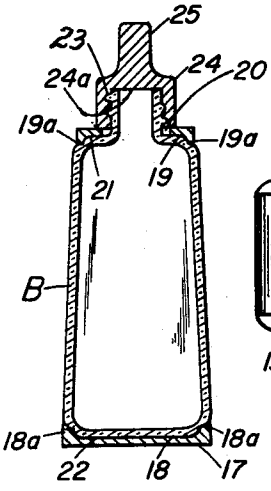


Fig. 5.

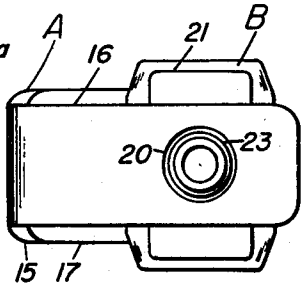


Fig. 6.

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COMBINATION BOTTLE AND HANDLE ATTACHMENT

Paul Klein, West Los Angeles, Calif.

Application May 22, 1957, Serial No. 660,815

2 Claims. (Cl. 215—100)

My invention relates to bottles and particularly to those for lotions, perfumes or liquid cosmetics and any food or other household product which are adapted to be dispensed therefrom for individual use.

It is a purpose of my invention to provide a combination bottle and handle attachment having coacting means thereon by which the attachment can be secured to the bottle to permit holding of the bottle by the handle in dispensing its contents. This avoids the bottle slipping from the hand, such as frequently occurs when handling a bottle alone with wet or even dry hands.

It is also a purpose of my invention to provide a bottle-handle attachment which permits the ready removal of the bottle therefrom when empty, and the application of a filled bottle thereto.

A further purpose of my invention is to provide in the handle attachment an opening for reception of the bottle neck, and a cap for the neck which as applied serves to coact with the attachment in holding the bottle against displacement from the attachment, and yet allows ready detachment of the bottle therefrom when the cap is removed for substitution of a new bottle.

I will describe only one form of bottle, one form of handle attachment, and one form of cap, each embodying my invention, and will then point out the novel features thereof in claims.

In the accompanying drawings:

Fig. 1 is a view showing in perspective the handle attachment, the cap, and the bottle assembled for use.

Fig. 2 is a side elevational view of the invention on a reduced scale.

Fig. 3 is a top plan view of Fig. 2.

Fig. 4 is a vertical sectional view taken on the line 4—4 of Fig. 3.

Fig. 5 is a vertical sectional view taken on the line 5—5 of Fig. 3.

Fig. 6 is a view similar to Fig. 3 but showing the bottle partly inserted into the handle attachment.

Referring more particularly to the drawings, my invention in its present embodiment essentially comprises a handle attachment A constructed of plastic or metal possessing the required degree of resiliency, a bottle B which may be made of glass or transparent plastic material, and a cap C which likewise might be made of glass or plastic material.

The handle attachment A comprises a U-shaped frame having a vertical portion **15** which may be curved as shown, an upper horizontal portion **16**, and a lower horizontal portion **17**. The vertical portion **15** provides a handle when the attachment is secured to the bottle B, while the portions **16** and **17** provide a pair of bottle gripping arms that coact with elements on the bottle for securing the bottle in the frame.

The arm **17** is formed on its top side adjacent the free end thereof with a recess or pocket **18**, which, in the present instance, is of rectangular form to provide at its edges, side and end upstanding shoulders **18***a* and **18***b*.

The arm **16** is formed on its underside in an area

opposite the recess **18**, with a similarly shaped recess **19** that provides at its side and end edges depending shoulders **19***a* and **19***b*. An opening **20** is formed in the upper arm **16** at a point substantially centrally of the recess **19**, and for the reception of a bottle neck.

The bottle B may be of any desired shape and size such as can be accommodated between the frame portions **16** and **17** of the handle attachment. The top side of the bottle B is formed with an integral and flat projection **21** of an area to fit within the recess **19** and so that its edges engage the shoulders **19***a* and **19***b* on the recess. Similarly, the bottom wall of the bottle is formed with a flat and integral projection **22** of the same shape and size as that of the recess **18** so as to be accommodated therein with its edges engaging on the shoulders **18***a* and **18***b* of the recess.

The neck **23** of the bottle is preferably screw threaded as shown, and is of such a diameter as to be freely received in the opening **20**. The cap C for the neck **23** comprises a base member **24** which is formed centrally with a recess **24***a* screw threaded to receive the neck **23**, and this member is of such an area that as applied to the neck it abuts the top side of the arm **16** to retain the neck against displacement from the opening **20**. To facilitate screwing and unscrewing of the cap the member **24** is provided on its top with a flat handle **25**.

To assemble the handle attachment A and the bottle B, the neck **23**, without the cap C thereon, is first inserted into the opening **20** with the bottle at right angles to the attachment frame. By now forcing the bottle inwardly between the arms while in this position, the arms **16** and **17** are spread apart slightly to allow both ends of the bottle to pass between the arms and across the recesses **18** and **19** so that the bottle now occupies the position shown in Fig. 6 wherein the projections **21** and **22** transversely span the recesses.

This manipulation of the bottle is now followed by turning it ninety degrees about the neck **23** as a center thereby bringing the projection into registry with the recesses, and under the contractive action of the arms **16** and **17**, the projections are caused to be firmly seated in the recesses to retain the bottle in coplanar position with respect to attachment frame and the vertical portion **15** spaced from one edge of the bottle sufficiently to provide a handle adapted to be gripped by the user in manipulating the bottle to dispense its contents as required.

Following a dispensing operation, the cap C is applied to the bottle neck, and when screwed home thereon causes the member **24** to clampingly engage the projections **21** and thus lock the neck within the opening **20** to assist the arms **16** and **17** and the projections in retaining the bottle against movement accidentally from the frame.

When the bottle becomes empty it can be removed and replaced by a filled bottle of like construction. Its removal is readily accomplished by first removing the cap, and then turning the bottle to the angular position shown in Fig. 6 to remove the projections from the recesses, whereupon, the neck can be withdrawn from the opening and the bottle slid from between the arms.

Although I have herein shown and described only one form of bottle, one form of handle attachment, and one form of cap, each embodying my invention, it is to be understood that various changes and modifications may be made therein without departing from the spirit of the invention and the spirit and scope of the appended claims.

What I claim is:

1. In combination: a handle having a pair of spaced gripping arms, one of which is formed with an opening; a bottle removably received between said arms, and having a neck extending through said opening; and a cap removably fitted on the neck and engaging the respective gripping arm.

2. In combination: a handle having a pair of normally parallel spaced gripping arms, one of which is formed with an opening, the confronting faces of said arms being formed with non-circular recesses; a bottle having flat and non-circular projections on the top and bottom wall thereof received in said recesses, and the neck of the bottle extending through said opening; and a cap removably fitted on the neck and engaging the respective gripping arm.

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