Dec. 5, 1939. L. T. CRABBE 2,182,046

DOUBLE SHELL CAP AND DAUBER

Filed April 29, 1938

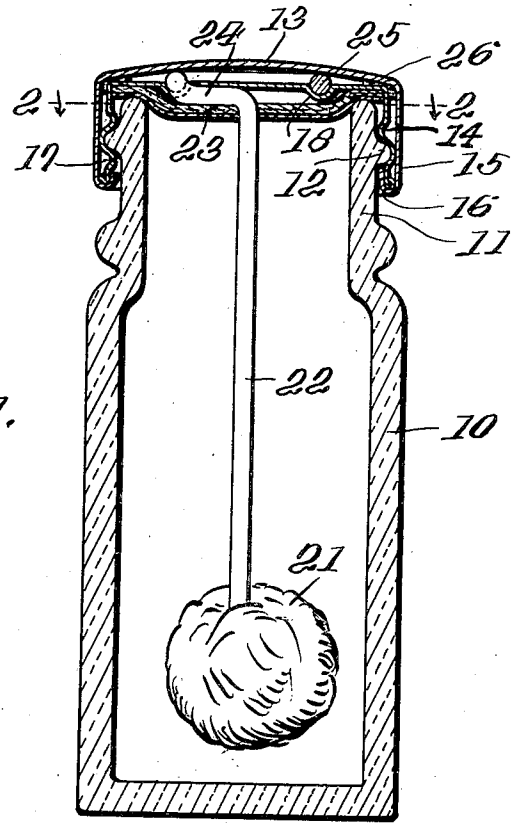


Fig. 1.

Fig. 2.

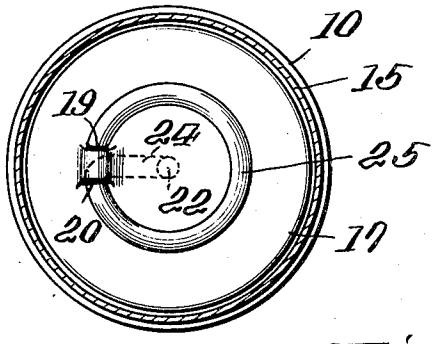


Fig. 3.

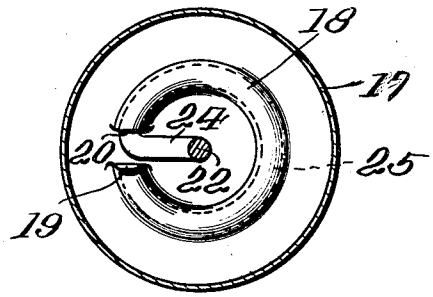
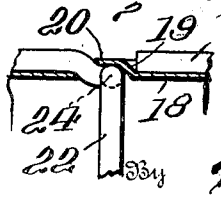


Fig. 4.



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DOUBLE SHELL CAP AND DAUBER

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Application April 29, 1938, Serial No. 205,080

4 Claims. (Cl. 91—67.2)

The present invention relates to new and useful improvements in closures for containers, such as bottles, jars or the like, and more particularly to improvements in a double shell cap which has attached thereto a dauber or applicator for applying the contents of the container.

An object of the invention is to provide a double shell cap of the above type, wherein the dauber shank is secured between the inner and outer shells and prevented from rotating relative to the cap or from becoming disengaged therefrom.

A further object of the invention is to provide a double shell cap of the above type, wherein the dauber shank is in the form of a wire extending through the inner shell and coiled to lie between the inner and outer shells.

A still further object of the invention is to provide a double shell cap of the above type, wherein the coiled end of the dauber shank is positively held against rotation relative to the cap.

A still further object of the invention is to provide a double shell of the above type, wherein the inner shell is provided with a recess in which the coiled end of the dauber shank is seated and maintained by the outer shell.

The invention still further aims to provide a double shell cap of the above type which may be conveniently and inexpensively manufactured, and which is adapted to seal the container.

The above and other objects of the invention will in part be obvious, and will be hereinafter more fully pointed out.

In the accompanying drawing,

Figure 1 is a side view, in section, showing the improved double shell cap and dauber applied to a container.

Figure 2 is a top view, in section, taken substantially along the line 2—2, showing the coiled end of the dauber shank in position with respect to the inner shell.

Figure 3 is a bottom view, in section, with the sealing gasket and outer shell removed.

Figure 4 is a detailed view, in section, showing the connection between the dauber shank and the inner shell.

In furnishing certain fluids, such as shoe polish or the like, it is desirable to afford some means for facilitating the application of the polish or other material. In order to guard against the loss or misplacing of separate brushes or spreaders, the present invention contemplates the securing of a dauber or applicator directly to the cap for the container. The cap is of the double shell type wherein the outer shell presents a smooth and even surface and wherein the inner shell may be threaded to engage corresponding threads on the container end. The dauber is carried by a shank extending within the container and the upper end of the shank is secured between the inner and outer shells and positively held against rotation or disengagement therefrom. Thus, the cap serves as a handle for the dauber so that when the cap is removed, the polish or other material may be applied to any desired surface.

Referring more in detail to the accompanying drawing, the container 10 is illustrated as being in the form of a glass jar having a neck portion 11 provided with external threads 12. The container serves as a receptacle for the polish or other material to be furnished.

The cap is of the double shell type and includes an outer shell 13 and an inner shell 14. The outer shell 13 presents a smooth exterior surface and is provided with a depending skirt portion 15, the lower end of which is curled inwardly, as at 16, to grip the lower end of the skirt portion 17 of the inner shell 14. Thus, the inner and outer shells are prevented from rotating relative to one another. The skirt portion 17 of the inner shell 14 is threaded to cooperate with the external threads 12 on the neck portion of the container.

The end portion of the inner shell 14 is provided with a substantially circular recess or groove 18, one end 19 of which is closed and the other end 20 of which is apertured. The dauber 21 may be of any suitable material and is attached to a shank 22 which extends through an inner sealing gasket 23. The edge portion of the sealing gasket 23 is pressed between the inner shell 14 and the edge of the neck portion 11 so as to effect a sealing of the container when the cap is screwed thereon. In the space between the central portion of the gasket 23 and the inner shell 14, the shank 22 is bent at right angles, as at 24, to extend to a position between the closed and open ends 19, 20 of the recess 18. The shank portion is then bent to enable it to pass into the aperature at the open end of the recess 18. The end portion 25 of the shank 22 is bent symmetrically with respect to the curvature of the recess 18 so that it will snugly fit therein. The end portion of the outer shell 13 serves to maintain the coiled end 25 of the shank 22 properly located in the recess 18. The closed end 19 of the recess 18 serves as an abutment for the portion 24 of the shank 22 in order to prevent rotation thereof. An annular sealing gasket 26 is disposed between the inner and outer shells substantially at the junction between the end and skirt portions thereof in order to guard against the leakage of any material

which may gain access to the space between the two shells.

From the foregoing description, it will be seen that the present invention provides an efficient and substantially rigid connection between the double shell cap and the shank 22 which is in the form of a wire. The end of the outer shell and the recess 18 in the inner shell are shaped to provide a space, within which the coiled end 25 of the dauber shank is housed and maintained. For convenience in assembling the cap and dauber, the wire shank 22 may be passed through the inner liner or sealing gasket 23 before the end 25 thereof is coiled. After the end of the shank 22 is properly shaped and coiled, the free end of the portion 25 is "threaded" through the apertured end 20 of the recess 18 and turned so that the coiled portion will fit within the recess and the right angled horizontal portion 24 will lie between the closed and open ends 19, 20, respectively, of the recess. Thus, the dauber shank is prevented from turning relative to the cap. The coiled end portion 25 is maintained seated in the recess 18 by the outer shell 13, and any effort to remove the dauber shank from the completed cap will be prevented. The inner gasket 23 serves to prevent bending of the horizontal portion 24.

It is to be clearly understood that various changes in the details of construction and arrangement of parts may be made without departing from the scope of the invention as set forth in the appended claims.

I claim:

1. A container closure having a dauber associated therewith, comprising an inner shell having an end portion and a depending skirt adapted to engage the container, an outer shell enclosing said inner shell and having an end portion and a depending skirt turned inwardly around the edge of the skirt on said inner shell to prevent relative rotation between said shells, the end portion of said inner shell being provided with a depressed circular recess symmetrically spaced with respect to the center of the closure and having an opening through the inner shell at one end thereof and being closed at the opposite end thereof, and a wire dauber shank extending through the said opening and having the end portion thereof coiled and disposed in said circular recess with the end of the coiled end portion abutting against the closed end of said recess and maintained therein by said outer shell.

2. A container closure having a dauber associated therewith, comprising an inner shell having an end portion and a depending skirt adapted to engage the container, an outer shell enclosing said inner shell and having an end portion and a depending skirt turned inwardly around the edge of the skirt on said inner shell to prevent relative rotation between said shells, the end portion of said inner shell having a depressed circular recess symmetrically spaced with respect to the center of the closure, one end of said recess being closed and the opposite end of said recess being disposed adjacent the closed end thereof and opening through the said inner shell, and a wire dauber shank adapted to extend into the container and having a horizontal portion disposed between the closed and open ends of said recess and having the end portion thereof extending through the open end of said recess and coiled to lie within the said recess with the end of the coiled end portion abutting against the closed end of said recess.

3. A container closure having a dauber associated therewith, comprising an inner shell having an end portion and a depending skirt adapted to engage the container, an outer shell enclosing said inner shell and having an end portion and a depending skirt turned inwardly around the edge of the skirt on said inner shell to prevent relative rotation between said shells, the end portion of said inner shell having a depressed circular recess symmetrically spaced with respect to the center of the closure, one end of said recess being closed and the opposite end of said recess being disposed adjacent the closed end thereof and opening through the said inner shell, a lining gasket disposed beneath the end portion of said inner shell for sealing the container when the closure is screwed thereon, and a wire dauber shank disposed centrally of the closure and extending through the said lining gasket and having a horizontal portion extending between said gasket and the end portion of said inner shell to a position between the closed and open ends of said recess, and the end of said shank extending through the opening at one end of said recess and coiled to lie within said recess with the end of the coiled portion of the shank abutting against the closed end of said recess and maintained therein by said outer shell.

4. A container closure having a dauber associated therewith, comprising an inner shell having an end portion and a depending skirt adapted to engage the container, an outer shell enclosing said inner shell and having an end portion and a depending skirt turned inwardly around the edge of the skirt on said inner shell to prevent relative rotation between said shells, the end portion of said inner shell having a depressed circular recess symmetrically spaced with respect to the center of the closure, one end of said recess being closed and the opposite end of said recess being disposed adjacent the closed end thereof and opening through said inner shell, an annular sealing gasket disposed between said inner and outer shells substantially at the junction of the end and skirt portions thereof, a lining gasket disposed beneath the end portion of said inner shell for sealing the container when the closure is screwed thereon, and a wire dauber shank disposed centrally of the closure and extending through said lining gasket and having a horizontal portion extending between said gasket and the end portion of said inner shell to a position between the closed and open ends of said recess, and the end of said shank extending through the opening at one end of said recess and coiled to lie within said recess with the end of the coiled portion of said shank abutting against the closed end of said recess and maintained therein by said outer shell.

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