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BOTTLE CAP AND SPREADING DEVICE

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Fig. 1.

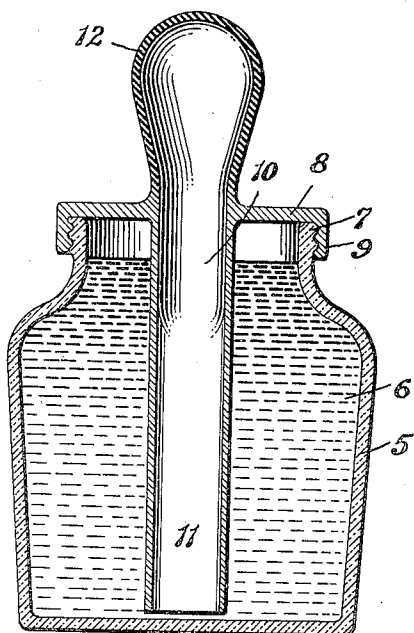


Fig. 2.

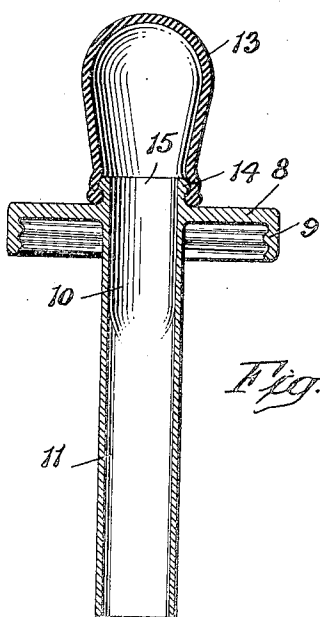
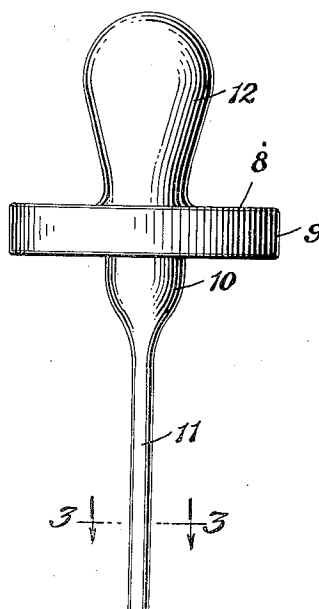


Fig. 3.



Fig. 4.

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BOTTLE CAP AND SPREADING DEVICE

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4 Claims. (Cl. 91—67.3)

This invention relates to an improvement in a combined spreader and closure means, for containers intended to hold such substances as mustard, ketchup, horseradish or any other fluid or partly fluid material.

The object of the invention is to provide a simple and effective device which will close a bottle or other container, and enable the contents to be removed in desired quantity from the bottle and applied or spread on an article of food or the like.

A further object of the invention is to provide such a device which will, by means of its integral or semi-integral construction, be very easily and economically made, and which will also be highly sanitary in use.

In the accompanying drawing, wherein several embodiments of the invention are shown, Fig. 1 is a vertical sectional view through a mustard bottle or other like container, to which my combined spreader and closure cap is applied; Fig. 2 is a side elevation of the combined cap and spreader; Fig. 3 is a sectional view on the line 3—3 of Fig. 2, looking in the direction of the arrows; and Fig. 4 is a vertical sectional view of a modified structure.

In the drawing, 5 indicates a bottle or other like receptacle which is preferably, although not necessarily, made of glass or the like, and is used for containing a food or other material 6 in a fluid or semi-fluid state. The bottle 5 is provided with a conventional threaded top 7 which receives the cap 8. The cap 8 is provided with an internally threaded circumferential flange 9 received on the threaded part 7 of the bottle 5. The cap 8 is preferably composed of hard rubber or some similar hardened plastic substance which forms a relatively stiff or rigid closure cap. Formed integral with the cap 8 and downwardly dependent therefrom is a rigid or stiff tubular member 10 constituting an applicator or spreader. The spreader 10 is flattened as at 11 so that its lower end is of a convenient flattened tubular shape, as clearly illustrated in Figs. 2 and 3, to facilitate the application of the fluid-like product 6 to an article of food or the like.

Extending upwardly from the top of the cap 8 is a soft rubber bulb 12 which, in the structure shown in Figs. 1 and 2, is formed integral with the cap 8. This bulb 12 is used to draw a portion of the contents 6 of the container into the spreader, as is easily understood. The structure of the combined closure and spreader is such that, when it is constructed of rubber, the entire device may be made in one piece with the tubular spreader 11 and cap 8 of hard rubber and the integral bulb portion of soft rubber. With this arrangement, no joints or cracks are provided in

the device where food particles might lodge, so that the device is sanitary and easily manufactured.

In the structure shown in Fig. 4, the cap 8 and spreader 10 are integrally formed as explained with respect to the structure of Figs. 1 to 3 inclusive. In the structure of Fig. 4, both the cap and the integral spreader may be constructed of hardened, plastic substance, such as hard rubber, bakelite, or the like. In that construction, the bulb 13 is of soft rubber and is separable from the cap 8 and attached spreader 10. Said bulb is fitted over a bead 14 provided on an upward extension or nipple portion 15 forming an upward continuation of the spreader 10 and extending above the top of the cap 8.

In use, the cover portion 8 is rotated or unthreaded and a portion of the contents 6 is drawn up into the spreader 10 by compression and release of the bulb 12 and the entire device removed from the bottle, and the contents of the spreader easily applied to an article of food or the like.

While I have described a device particularly intended for use in connection with the application of mustard, ketchup, horseradish and other food products, it will be understood that the device is useful for other purposes, such as, for example, glue, ink, paints, and many other products.

What I claim is:—

1. A device of the class described comprising, a bottle cap, an integral tubular downward extension thereon forming a spreader, both the cap and spreader being made of hard rubber, and a soft rubber bulb integrally formed on the cap and extending upwardly therefrom and communicating with the spreader.

2. A device of the class described comprising, a cap formed with a bulb and a tubular spreader, the cap and spreader being of hard rubber and the bulb of soft rubber, the cap, spreader and bulb being integral.

3. A device of the class described comprising, a bottle cap provided with an integral spreader, both cap and spreader being of rigid construction, and a soft rubber bulb extending from the cap and communicating with the spreader, said bulb being formed integrally with the cap and spreader.

4. A device of the class described comprising, a bottle cap provided with an integrally formed spreader having a flattened tubular lower portion, both the cap and the spreader being composed of hard rubber, and a soft rubber bulb formed integral with the cap and extending upwardly therefrom and communicating with the spreader.

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