Aug. 8, 1933. W. W. S. CARPENTER 1,921,248

MUCILAGE SPREADER

Filed May 5, 1931

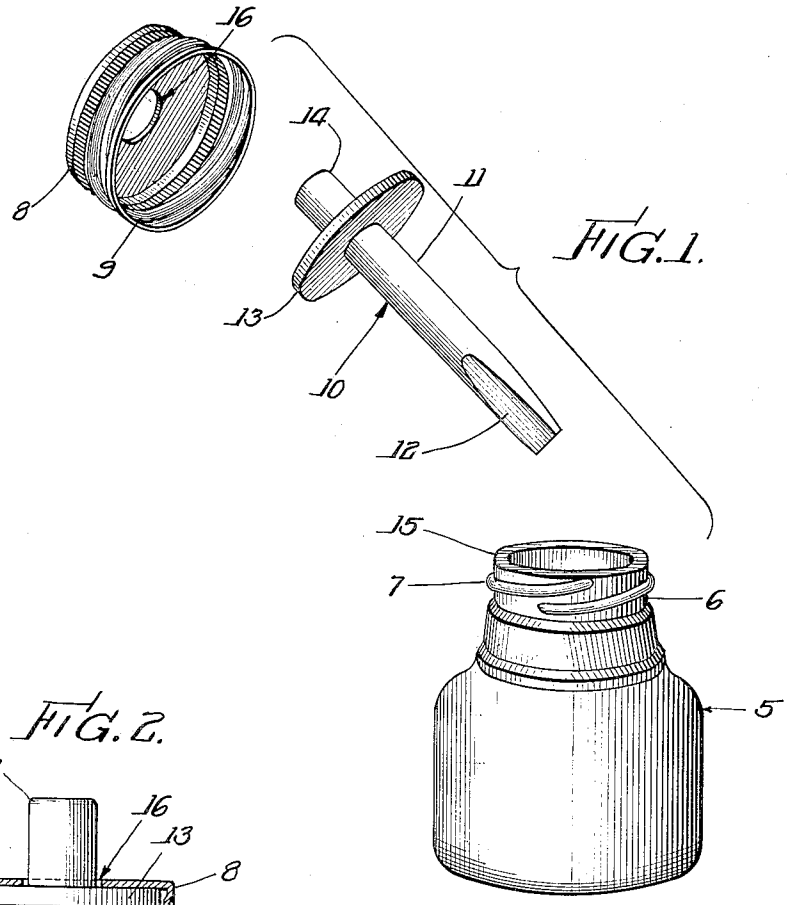
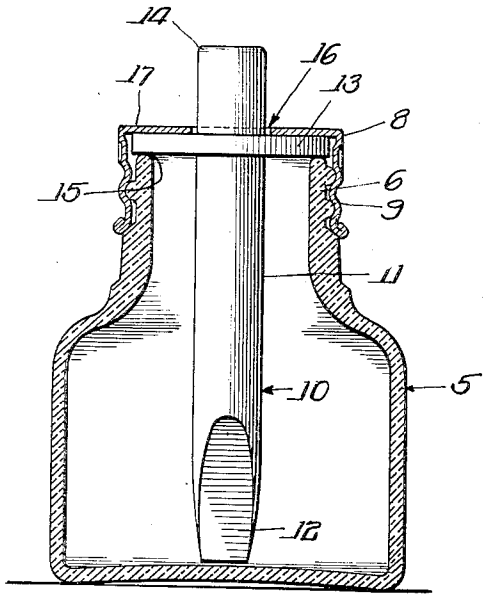


FIG. 1.

FIG. 2.



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MUCILAGE SPREADER

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1 Claim. (Cl. 91—67.4)

This invention relates to mucilage spreaders, and the primary object of the invention is to provide a new and improved efficient mucilage applicator in combination with means for securing the applicator to a cap or cover which acts as a closure for a container of liquid such as mucilage.

Another object is to provide a one-piece, flexible rubber mucilage spreader having a disk integrally formed thereon and a handle integrally formed on the disk upwardly of the disk whereby the applicator may be readily handled during use.

A further object is to provide a one-piece mucilage spreader or applicator having an integral cap and an operating handle formed thereon, the handle protruding through an opening in the cap or seal of a mucilage bottle whereby a hermetically tight fit is made for a mucilage container when the cap is screwed on a container, such as a bottle.

Numerous other objects and advantages will be apparent throughout the progress of the following specification.

The accompanying drawing illustrates a selected embodiment of the invention and the views therein are as follows:

Fig. 1 is a detail exploded view showing the relative position of the parts to which the invention pertains.

Fig. 2 is a detail sectional view through a mucilage bottle to which the invention is applied.

Referring to the drawing, 5 designates a container, such as a mucilage bottle, having a neck 6 which is provided with integral threads 7. A cap or top 8 is provided for closing the bottle and has threads 9 provided therein for cooperating with the threads 7 on the bottle.

An applicator 10 cooperates with the bottle and with the cap and has a stem 11 which is beveled or inclined at its end to provide a wedge-shaped spreading portion 12. The applicator 10 is preferably made of soft flexible, rubber-like material and has a soft rubber disk 13 fixed near its upper end and is integral with the body of the spreader. The stem of the applicator extends through the disk and provides a handle portion 14. The handle portion, disk, and stem are made integrally of the same kind of material which may be any kind of soft flexible material desired, such as soft rubber.

The disk 13 provides a top or seal for the bottle and when the cap or cover 8 is screwed in place, the cap will force the disk to make a tight contact with the top 15 of the bottle, Fig. 2. The cap is provided with a concentrically located hole 16 through which the extension or handle portion 14 of the applicator extends.

In assembly, the applicator may be inserted into the container or bottle with the disk engaging the upper periphery of the bottle. The cap is then screwed in place inpinging the disk 13 between the top 17 of the cap and the upper edge of the bottle. This construction and arrangement makes a hermetically tight seal for the bottle.

In general use, however, the cap may be dispensed with, the applicator providing a sufficient seal for the bottle under ordinary circumstances. Thus, the applicator not only acts as a stopper for the bottle, but also provides a mucilage spreading device. Of course, if desired, the cap may be a permanent part of the device, but during use, mucilage will fill in the space between the threads on the bottle neck and it is, therefore, preferable that the screw top be dispensed with and that the applicator provide the closure for the bottle as well as providing the handy mucilage applicator.

The invention provides a simple and efficient applicator which acts as a hermetical seal between the cap and the bottle. The flexible rubber applicator has a spreading end which permits the mucilage to be thinly and evenly spread. The cap is inexpensive to manufacture and cooperates with the applicator to tightly seal the bottle when in shipment or in storage. The entire device is efficient in operation and may be readily and economically manufactured.

Changes may be made in the form, construction, and arrangement of the parts without departing from the spirit of the invention or sacrificing any of its advantages, and the right is hereby reserved to make all such changes as fairly fall within the scope of the following claim.

The invention is hereby claimed as follows:

The combination, with a bottle having an opening within a neck provided with an exterior thread, of a liquid applicator made of soft, flexible rubberlike material, said applicator comprising a section adapted to extend a considerable distance within the bottle and formed at its extremity with a relatively flat, flexible liquid spreader and a section integral with the first section and adapted to project outwardly from the opening in the neck in position to be conveniently gripped by the user, a resilient washer surrounding an intermediate portion of said applicator and normally maintained against longitudinal displacement thereof, said applicator and washer providing a closure for the opening

in the neck of the bottle, and a cap adapted to threadedly engage the external thread on the neck and having a central opening of a size which will freely receive the outer section of the applicator whereby, when the cap is tightened upon the neck, the washer will impinge the upper edge of the neck to provide an effective seal, said applicator, washer, and cap being removable as a unitary structure when the cap is unscrewed from the neck, said cap being readily removable from the washer and applicator by withdrawing the outer section of the applicator through the aperture in the cap.

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