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A. EVENSEN

1,846,711

CONTAINER WITH APPLICATOR

Filed May 15, 1930

Fig. 1.

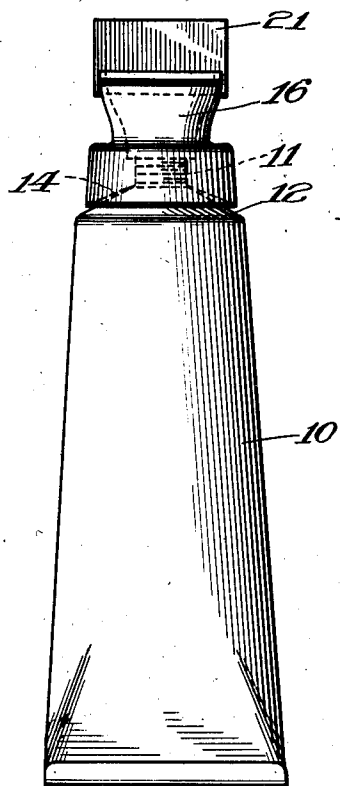


Fig. 2.

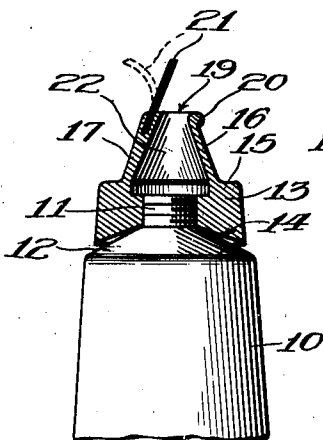


Fig. 3.

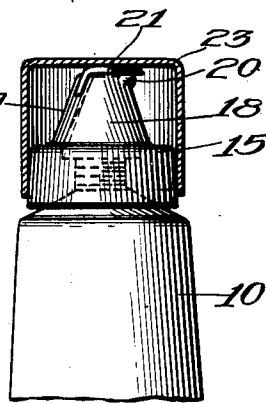


Fig. 4.

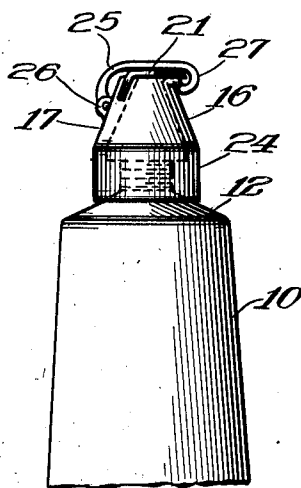


Fig. 6.

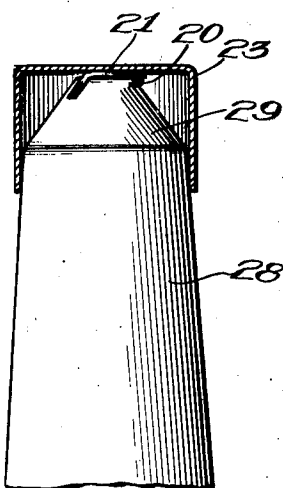
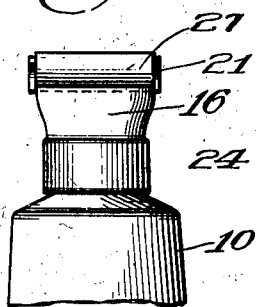


Fig. 5.



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CONTAINER WITH APPLICATOR

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This invention relates to containers and more particularly to a collapsible tube provided with an applicator and closure means.

The invention may be embodied in an attachment adapted to be applied to conventional collapsible tubes or which may be made an integral part of a tube or other container.

The invention is well adapted for attachment to containers for shaving soap, cold cream, medical ointments, etc., and one of the objects is to provide a flexible applicator by which the contents of the container may be spread upon a surface and which co-operates with a cap to seal the container when not in use.

Other objects and advantages will appear as I proceed with my specification.

In the drawings:—

Fig. 1 is a front elevation of a collapsible tube provided with an applicator embodying my invention.

Fig. 2 is a side view taken at right angles to Fig. 1, showing the applicator in section.

Fig. 3 shows the construction of Fig. 2 in side elevation with a closure cap in position in section.

Fig. 4 shows in side elevation a modified form of applicator and closure means.

Fig. 5 is a front elevation of the construction shown in Fig. 4.

Fig. 6 shows a modified form in which the applicator is an integral part of the tube, the cap being shown in section.

In the drawings:—

A conventional collapsible tube is indicated at 10, the externally screw-threaded neck of the tube at 11, and radially downwardly inclined top surface at 12.

In that embodiment of my invention shown in Figs. 1 to 3 inclusive, the detachable applicator consists of a collar 13, internally bored and screw threaded to fit the screw-threaded neck 13 of the tube, the lower surface 14 of the collar 13 being inclined to render it substantially complementary to surface 12. The peripheral surface of the collar 13 is slightly tapered, being inclined downwardly and outwardly.

Extending upwardly from the top 15 of

the collar, 13 and preferably inwardly of its edge is the applicator head comprising front and rear walls 16 and 17, respectively, and side walls 18, the front and rear walls being relatively wide at their upper margins and the side walls relatively narrow and diminishing in width toward the top, thereby forming an elongated relatively narrow mouth 19 at the top of the applicator head. The margin of the front wall 16 is preferably formed with a bead 20 and the rear wall 17 is recessed inwardly from its top to receive a flexible brush 21 of any suitable material. In the position shown in the full lines in Fig. 2, the brush 21 is in normal position with the cap removed, and in dotted lines the brush is shown in the position it assumes when the cap has been removed and the brush is used to spread paste or other material. The mouth 19 is in communication with the conventional opening in the collapsible tube so the material in the container may be forced through the chamber 22 and mouth 19 as desired.

A cap 23 adapted to frictionally engage the tapered surface of the collar 13 is shown in position on the applicator in Fig. 3. The inner surface of the top of the cap engages the brush 21 and moves it downwardly into contact with the bead 20 to seal the mouth 19 of the container when the device is not in use.

Referring to the modified form shown in Figs. 4 and 5, it will be noted that the applicator comprises a collar 24 which may be smaller in diameter than the collar 13. The applicator head is similar to the head described in connection with Figs. 1 to 3 and the corresponding parts have been indicated by the same numerals. In this form the cap 23 is dispensed with and a closure member 25 is provided. The closure 25 is hingedly connected to the rear wall 17 by the hinge 26. The part 25 preferably is made of spring metal, the front hook end 27 frictionally engaging the bead 20 on wall 16 as clearly shown in Fig. 4. By manually moving the closure 25 on its hinge 26, the applicator brush 21 is allowed to assume the position shown in Fig. 2.

Referring to the modified form shown in Fig. 6, the collapsible tube 28 is provided with an integral applicator head 29, the upper portion of which is shaped as already described in connection with other figures. A brush 21 is inserted in a recess in one of the elongated walls of the head 29, and when the cap 23 is moved downwardly, it contacts with the bead 20 to seal the mouth of the tube.

Obviously, changes in details of construction may be made without departing from the scope of my invention and I do not intend to be limited to the exact form and details of construction shown and described, except as pointed out in the appended claims.

I claim:—

1. A container having an applicator at one end comprising a head having a relatively narrow elongated mouth in communication with the interior of the container, a flexible brush mounted in the head adjacent one longitudinal margin of the mouth, and closure means adapted to fit over the head and to engage the brush, thereby maintaining the brush in contact with the margins of the mouth of the applicator when the closure means is in position on the applicator.

2. A container having downwardly and outwardly tapered side walls near its top, an applicator head on the container above said tapered walls, said head having a relatively narrow elongated mouth in communication with the interior of the container, a flexible brush mounted in the head adjacent one longitudinal margin of the mouth, and a closure cap adapted to fit over the head and to engage the tapered walls of the container, thereby maintaining the brush in contact with the margins of the mouth of the applicator when the cap is in position on the container.

3. A conventional collapsible tube having an externally screw-threaded neck, an applicator comprising a collar internally bored and screw-threaded mounted on the neck, a head formed on the collar provided with a relatively narrow elongated mouth in communication with the tube neck, a flexible brush mounted in the head and adjacent one longitudinal margin of the mouth, and closure means adapted to fit over the head and to engage the brush, thereby maintaining the brush in contact with the margins of the mouth of the applicator when the closure means is in position on the applicator.

4. A conventional collapsible tube having an externally screw-threaded neck, an applicator comprising a tapered collar internally bored and screw-threaded mounted on the neck, a head formed on the collar having relatively wide front and rear walls and narrow side walls diminishing in width toward the top of the head, forming a relatively narrow elongated mouth in communication

with the tube neck, a flexible brush mounted in the head adjacent one longitudinal margin and a closure cap adapted to engage the tapered walls of the collar and to hold the brush between the cap and the mouth of the head in sealing contact with the margins of the mouth.

5. A container, an applicator mounted on one end of the container, said applicator comprising a head having a relatively narrow elongated mouth in communication with the interior of the container, a flexible brush mounted in the head adjacent one longitudinal margin of the mouth, a bead formed on the opposite longitudinal wall, and closure means adapted to fit over the head and to engage the brush, thereby maintaining the brush in contact with the bead on the mouth of the applicator when the closure means is in position on the applicator.

In testimony that I claim the foregoing as my invention, I affix my signature this 13th day of May, 1930.

ANTON EVENSEN.