Nov. 19, 1929. B. ANSEHL 1,736,146

DISPENSER

Filed May 16, 1927

Fig. 1.

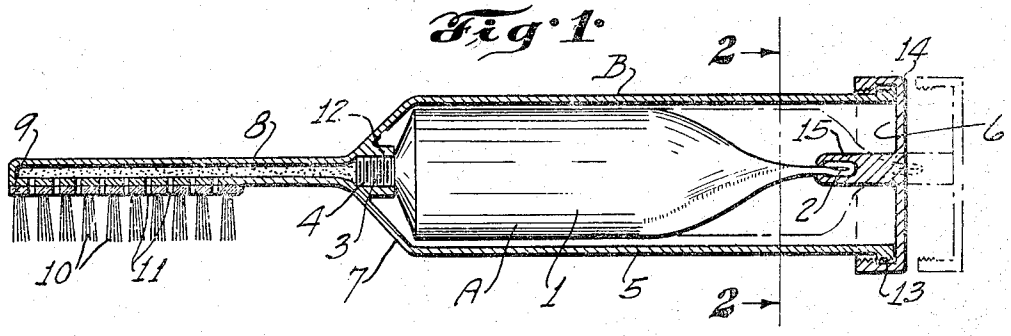


Fig. 2.

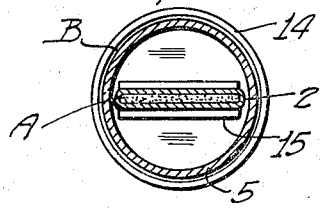
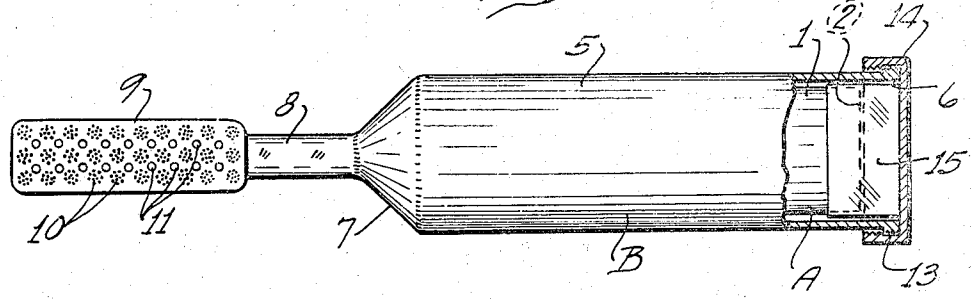


Fig. 3.



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DISPENSER

Application filed May 16, 1927. Serial No. 191,751.

This invention relates generally to dispensers.

Tooth-paste, shaving-cream, and the like are today quite generally furnished the consuming public in collapsible tubes, and my present invention has for its chief object the provision of a fountain brush so constructed as to house the tube and effect direct ejection of its contents upon the bristles of the brush for application upon the teeth or face.

And with the above and other objects in view, my invention resides in the novel features of form, construction, arrangement, and combination of parts hereinafter described and pointed out in the claims.

In the accompanying drawings,

Figure 1 illustrates in longitudinal section a tooth-brush embodying my invention;

Figure 2 is a transverse sectional view of the brush taken approximately on the line 2—2, Figure 1; and

Figure 3 is a plan view of the brush, partly broken away and in section.

Referring now more in detail and by reference characters to the drawing, which illustrates a preferred embodiment of my invention,

A designates a present day common or standard tube, having as its contents tooth-paste, shaving-cream, or the like, the tube A including a body 1 folded upon itself and closed at one end, as at 2, and provided or formed at its other end with a mouth 3 externally threaded, as at 4, to receive the usual closure-cap, not shown. It may be added that body 1 is of such relatively soft or collapsible structure that, under pressure thereupon, mouth 3 being open, the contents of the tube discharge in the form of a ribbon or strip.

B designates my new brush proper. The main or body portion of brush B is preferably in the form of a hollow cylindrical shell or casing 5, which is open, or adapted to be opened, at its one or rear end, as at 6, to receive and temporarily or usably house the tube A, and which is preferably constructed of any suitable somewhat rigid metallic material to also provide a handle for the brush.

At its opposite or forward end, shell 5 is diametrically reduced, as at 7, and formed either integrally with or otherwise suitably fixed to the shell 5 at its reduced end 7, is a suitably elongated hollow extension or stem 8. Suitably fixed or conjoined to stem 8 in the present brush, is a preferably oblong-rectangular plate or section 9 equipped with bristles 10. Formed in the plate 9 and the adjacent portion of the wall of stem 8, is a plurality of perforations or orifices 11 providing an outlet from the stem 8 and adapted to lead or direct upon the bristles 10 the paste, cream, or the like fed into and discharging from the stem 8.

Suitably fixed within the shell 5 at its reduced end 7 and providing communication between the chambers of shell 5 and stem 8, is a sleeve 12 of diametrical dimension and internally threaded to receive and engage with the neck 3 of tube A.

At the peripheral margin of its end 6, shell 5 is externally threaded, as at 13, for retaining engagement with a flanged and co-operatively threaded cap 14, which is adapted to be threaded into engagement with shell 5 so as to freely swivel thereupon in one direction. Formed upon the inner face of the end wall of cap 14, is a gripping-member 15 preferably in the form of co-operating jaws adapted for engagement with the inserted and housed tube A for effecting a twisting thereof, as shortly more fully appears. The cap 14 is thus adapted to perform the function both of a detachable or removable closure for the end 6 of shell 5 and a twisting member for the tube A.

Hence, in use and operation, cap 14 being detached and shell 5 open at its end 6, a filled tube A is endwise inserted into the shell B and threaded at its neck 3 into engagement with the shell-sleeve 12, as best seen in Figure 1. The tube A is thereby detachably secured at its one end 3 for discharge within the shell 5. The cap 14 is then engaged at its gripping-member 15 with the opposite or free end 2 of the tube A and engaged at its flange with the threaded end 6 of shell 5. Thereupon on further threading of the cap 14, the tube A, which is firmly held at its neck 3, will be twisted upon itself and its contents consequently forced or fed into stem 8 and in due course ejected through the orifices 11 upon the bris-

tles 10 for application upon the teeth in the usual manipulations of the brush, the cap 14 swiveling upon shell 5 after the cap 14 is fully seated in end-closing position thereupon. In such manner, through twisting of tube A, its contents may be fully discharged and consumed. Thereupon, in reverse rotary movement, in turn, of the cap 14 and the used tube A, the used tube A may be detached and a new tube A substituted, as will be well understood.

My new brush is quite simple and inexpensive in form and structure and in a most cleanly and convenient manner effects automatically ejection of the paste or cream directly upon the brush-bristles.

While not specifically here shown, it will be evident that my new brush may be equally well adapted for shaving and other like uses, and that changes in the form, construction, arrangement, and combination of the several parts of the brush may be made and substituted for those herein shown and described without departing from the nature and principle of my invention.

Having thus described my invention, what I claim and desire to secure by Letters Patent, is:

1. In combination, a shell open at one end and having a threaded outlet at its other end, a tube disposed lengthwise within, and having threaded engagement at an end with the outlet of the shell, and a flanged closure-cap for the open end of the shell, the cap at its flange having engagement with the exterior surface of the shell at an end thereof for rotatory movement on and axially of the shell, and the cap being adapted for engagement with the tube for effecting through twisting thereof ejection of its contents through said outlet.

2. In combination, a shell open at one end and having a threaded outlet at its other end, a tube disposed lengthwise within, and having threaded engagement at an end with the outlet of the shell, a flanged closure cap for the open end of the shell, the cap at its flange having engagement with the exterior surface of the shell at an end thereof for rotatory movement on and axially of the shell, and cooperating jaws on the cap presented inwardly of the shell and adapted for engagement with the tube for effecting through twisting thereof ejection of its contents through said outlet.

In testimony whereof, I have signed my name to this specification.

BENJAMIN ANSEHL.