July 26, 1966 H. KAMBERSKY 3,262,461

CONTAINER AND DEVICE FOR REMOVING CONTENTS FROM A CONTAINER

Filed June 25, 1963

Fig.2

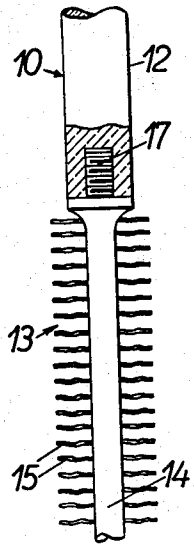


Fig.1

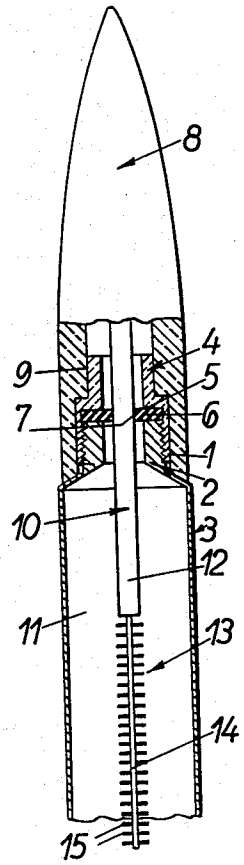
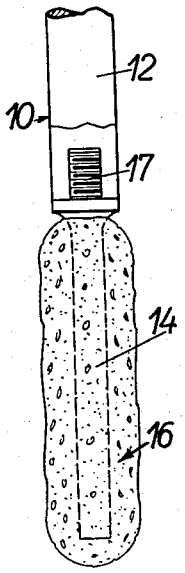


Fig.3



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CONTAINER AND DEVICE FOR REMOVING CONTENTS FROM A CONTAINER

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5 Claims. (Cl. 132—79)

This invention relates to a device for use with squeeze tubes, particularly for cosmetic preparations, such as masacara, lip paint or the like, in which an applicator stick guided in a resilient stripper can be inserted through an opening provided in the rigid neck portion of the tubes the stripper being accommodated in a separate sleeve member, which is provided with an internal screw thread for threaded engagement with the screw thread of the rigid neck portion of a conventional squeeze tube, which latter screw thread is provided for the closure cap.

In the known devices of this type the applicator stick has toward its free end a section formed with grooves for receiving the preparation. While this design is highly suitable for mascara, there may be applications in which such a relatively stiff applicator portion is not so suitable. Besides, the amount of preparation which can be received in the grooves is insufficient for some purposes.

The invention provides an improved device of the kind defined hereinbefore, in which the applicator stick has a smooth, shanklike portion which has attached to its lower end a substantially cylindrical applicator element in the form of a brush, or sponge or the like, which has a core extending in the axial direction of the applicator stick so that the excess pastelike composition is removed from the applicator when the applicator stick to pulled out of the tube through the stripper.

In this connection, the stiffening core of the applicator element is suitably smaller in diameter than the shank of the applicator stick and the outside diameter of the applicator element exceeds that of the shank.

The applicator element may be replaceably secured to the end of the shank by a screw-threaded connection between the core of the element and the shank.

The invention will be described more in detail with reference to illustrative embodiments shown on the drawing, wherein:

FIG. 1 is a view showing a tube provided with a device according to the invention, partly in section, and FIGS. 2 and 3 show second and third embodiments of the applicator stick.

A sleeve member **4** is screw-threaded on the external screw thread **1** of the neck portion **2** of a squeeze tube **3**. The bore of the sleeve member **5** is offset to form a bearing shoulder **5**. A resilient stripper **6** is clamped between this bearing shoulder and the top end of the threaded neck **2** and is formed with a central opening **7**. A cap **8** is mounted on the sleeve member **4** and in its lower portion has seat faces **9** conforming to the outside contour of the sleeve member. An applicator stick **10** is secured in the cap **8** and extends through the opening **7** of the stripper **6** into the preparation **11** contained in the tube **3**. The applicator stick **10** has a smooth, cylindrical portion **12**, which is secured to the cap **8** and forms a shank for an applicator element, such as a brush **13**, which is attached to the lower end of the shank. The applicator

element has a core **14**, which extends in the axial direction of the applicator stick and is integral with and smaller in diameter than the shank **12**. The applicator element consists preferably of a brush **13** for receiving the preparation contained in the tube. The bristles **15** of the brush **13** are attached to the core. Alternatively, the applicator element may consist of a spongelike body **16** (FIG. 3) surrounding the core **14**, or of a compressible pad.

The latter may comprise a layer of wadding surrounding the core **14** and covered with a wrapper consisting of a woven fabric. The outside diameter of the applicator element **13**, **15** exceeds that of the shank **12**, so that the withdrawal of the applicator stick **10** from the tube **3** will cause the stripper **6** to remove the superfluous pastelike composition from the applicator element. Because the stripper engages the shank **12** of the applicator stick, the latter will remove portions of the contents **11** of the tube only with the applicator element and only in the amount required for the respective purposes. This amount of contents of the tube to be carried by the applicator element **13**, **15** after its withdrawal from the tube may be predetermined by an appropriate selection of the outside diameter of the applicator element and its core **14** in relation to the outside diameter of the shank **12**.

In some cases it may be desirable to enable a replacement of the applicator element. For this purpose, the applicator stick **10** may be detachably secured to the cap **8** or, as is apparent from FIGS. 2 and 3, the applicator elements **13**, **15** may be detachably mounted to the lower end of the shank **12** of the applicator stick **10**. The latter mounting is preferably effected by a screw-threaded joint **17** between the core **14** and the shank **12**.

What is claimed is:

1. A cosmetic dispenser device adapted to receive a paste-like preparation, comprising a collapsible tube including a screw threaded neck having an upper rim, a sleeve member with a central bore having two portions of different inner diameters forming an inner shoulder, the larger portion being threaded and screwed onto the screw threaded neck of the tube, a disc-shaped stripper member inserted in said larger portion of the sleeve member and sandwiched in abutting relation against said inner shoulder in said sleeve member and the rim of the neck, said stripper member having a central bore, a removable cap in slidable engagement with the outer surface of said sleeve, said cap having secured thereon an applicator rod in gripping engagement with said central bore of the disc-shaped stripper member, the applicator rod including an end portion provided with interstices for receiving the contents of said tube, said tube being sufficiently collapsible to squeeze its contents in the proximity of said end portion.

2. A device as claimed in claim 1 wherein said end portion has an outer diameter greater than that of the remainder of the applicator rod.

3. A device as claimed in claim 1 wherein said rod includes a cylindrical shank portion, said end portion comprising a core having a smaller diameter than said shank portion and bristles on said core defining an outer diameter exceeding the diameter of the shank portion.

4. A device as claimed in claim 3 comprising means detachably securing the core and shank portion together.

5. A device as claimed in claim 1 wherein said end portion comprises a body of absorbent material, said body having an outer diameter exceeding the diameter of the remainder of the applicator rod and related to the diameter of the opening in the stripper to provide a prescribed

quantity material on said body when the latter is removed from the tube.

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