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CAP FOR TOOTHPASTE TUBES

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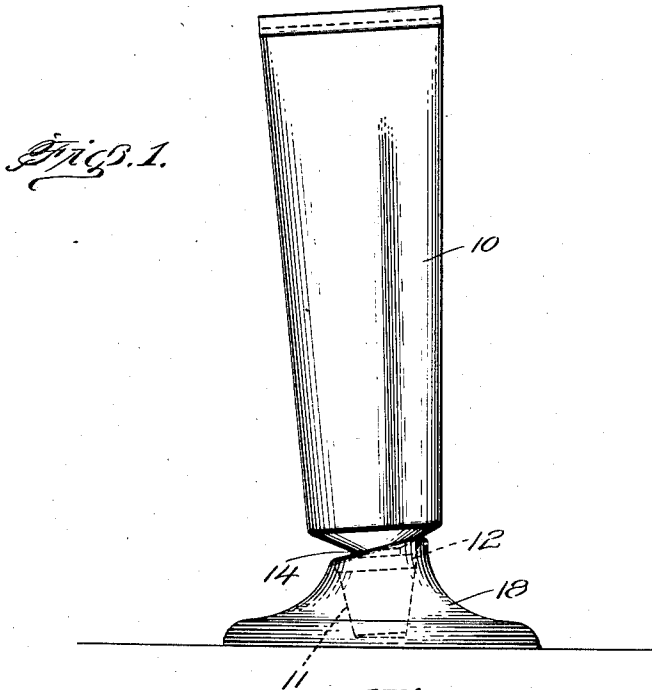


Fig. 2.

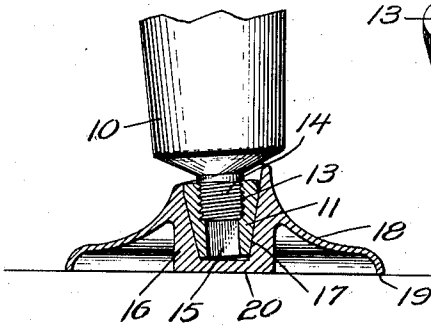


Fig. 4.

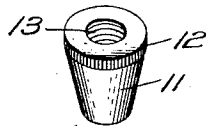
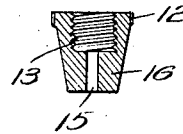


Fig. 3.



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CAP FOR TOOTHPASTE TUBES

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2 Claims. (Cl. 221-60)

This invention relates to caps for toothpaste tubes and has for an object to provide a cone-shaped replacement cap for the original cap of a toothpaste or shaving cream tube and a base having a conical recess to receive the conical cap when the tube is supported in inverted position on the base so that the tube will always be maintained in a sanitary condition and waste of contents or pollution of the contents by contact with extraneous objects will be positively prevented.

A further object is to provide the cone-shaped replacement cap and the conical recess with smooth walls permitting the cone-shaped replacement cap to be placed in or withdrawn from the recess without turning the tube.

A further object is to provide a cone-shaped replacement cap with a knurled portion by means of which the cap may be quickly screwed on to or unscrewed from the tube when desired.

A further object is to provide a device of the character described which will be formed of a few strong simple and durable parts, which will be inexpensive to manufacture, and which will not easily get out of order.

With the above and other objects in view the invention consists of certain novel details of construction and combinations of parts hereinafter fully described and claimed, it being understood that various modifications may be resorted to within the scope of the appended claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawing forming part of this specification,

Figure 1 is a side elevation of a paste tube equipped with a replacement cap and base constructed in accordance with the invention.

Figure 2 is a longitudinal sectional view through the cap and base shown in Figure 1 with a portion of the tube shown in elevation.

Figure 3 is a cross sectional view through the replacement cap taken in a plane at a right angle to the plane of the section shown in Figure 2.

Figure 4 is a detail perspective view of the replacement cap.

Referring now to the drawing in which like characters of reference designate similar parts in the various views, 10 designates a collapsible tube of the type used as a container for toothpaste, shaving cream and the like.

In carrying out the invention the conventional cap of the tube is replaced with a conical replacement cap 11 having a knurled surface 12 at the wide end thereof and having a cylindrical threaded bore 13 to receive the threaded neck 14 of the tube 10. Below the bore the cap is provided with an axial slit 15 which opens through the small end of the cap and permits of a ribbon of the material being squeezed through the cap in the conventional manner.

In further carrying out the invention I provide a base 16 of substantially cylindrical contour having an eccentrically disposed conical bore 17 adapted to receive the replacement cap 11 and hold the cap and tube in inverted position at a slight angle of perhaps about five degrees to the perpendicular, as shown in Figure 1. The base is provided with a bell shaped flange 18 the lower edge 19 of which is circular and is located in the plane of the bottom 20 of the base 16, as best shown in Figure 2, so that a wide annular supporting edge is engaged on the shelf or other piece of furniture upon which the base may be located to provide a permanent place for storing the tube when not in use.

The outer wall of the replacement cap 11 and the conical bore of the base 16 are smooth to permit the cap being easily inserted and removed from the base. It will be observed that the slit 15 is fully open at the bottom while the bottom of the base is completely closed so that when the tube is removed the contents may be squeezed through the cap without handling the cap while at the same time when the tube is in stored position, as shown in Figure 1, the closed bottom of the base will positively prevent contamination of the contents of the tube by contact with extraneous objects.

From the above description it is thought that the construction and operation of the invention will be fully understood without further explanation.

What is claimed is:

1. The combination with a collapsible tube of a conical replacement cap having a bore provided with a screw threaded portion to receive the conventional screw threaded neck of the tube and having a slit portion open through the small end of the cap, and a base having a bell shaped supporting flange terminating in an annular bottom edge in the plane of the bottom of the base, the base having a conical bore adapted to receive the conical cap and support the tube in inverted position, the bottom of the base being closed to prevent contamination of the contents of the tube.

2. The combination with a collapsible tube having a threaded neck, of a cone shaped replacement cap for the original cap, and a base having a conical recess, the cone shaped replacement cap being fully open at its lower end, said recess being closed at its lower end, the outer surface of the cone shaped replacement cap and the conical wall of the recess being smooth to permit the cap to be placed in or withdrawn from the recess without turning the tube, said recess being inclined at a slight angle to the vertical and supporting the tube in inverted upright position at a slight angle to the vertical.

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