March 6, 1928. 1,661,607

R. G. EVANS

COLLAPSIBLE TUBE BRUSH

Filed Feb. 9, 1925

Fig. 1

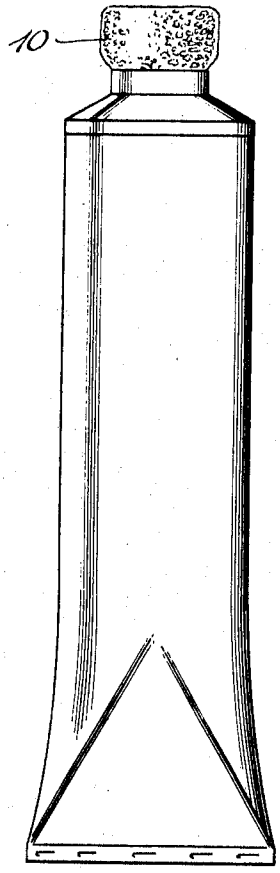


Fig. 2

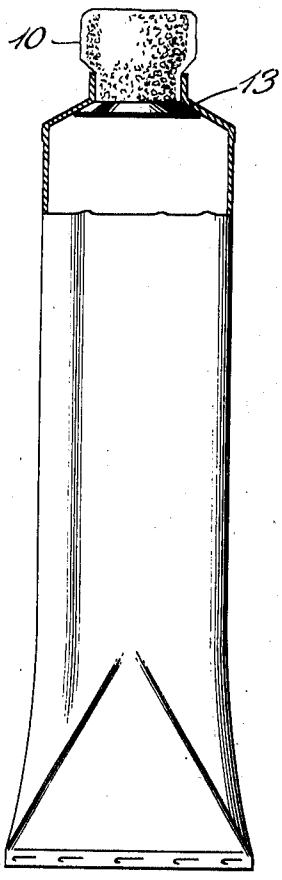


Fig. 3

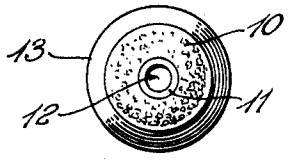


Fig. 6

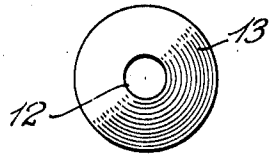


Fig. 4

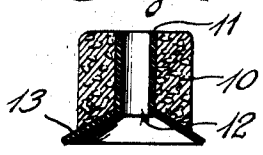
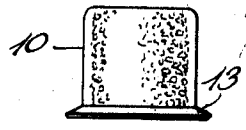


Fig. 5



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UNITED STATES PATENT OFFICE.

RUSSELL GEO. EVANS, OF DETROIT, MICHIGAN.

COLLAPSIBLE-TUBE BRUSH.

Application filed February 9, 1925. Serial No. 8,067.

My invention relates to improvements in a type of shaving brush having also a self-feeding device in the form of a collapsible tube.

The object of my invention is to provide a collapsible container to hold all manner of semi-fluids, such as creams and the like, in combination with a type of brush that will apply such creams to a surface.

Of the accompanying drawings:

Fig. 1 is a perspective view of collapsible tube brush in its complete form.

Fig. 2 is another view of the same form only this X-ray view shows plainly the position of rubber applicator in top of container.

Figs. 3, 4, 5 and 6 are four separate detail views of this rubber brush or applicator itself.

Referring to the drawings in detail:

Similar numerals refer to similar parts throughout the several views.

I will now explain the details of my rubber applicator that is shown in four separate and distinct views Figs. 3, 4, 5 and 6.

I have shown in Fig. 3 the general plan of my brush. The material 10 is porous rubber known by its trade name "sponge rubber." This entirely surrounds all sides of tubular member Number 11. Number 12 is the vacant space or hole in hollow tubular member; the shaded circle 13 is the base portion which would come into sight at a direct view from top of applicator. Fig. 6 shows a more complete view of bottom of base with its hole 12 through this aforesaid base.

Fig. 5 is a perspective side view, that explains how sponge rubber 10 entirely surrounds side of applicator and is attached to the base Number 13.

Fig. 4 is nothing more than a sectional side view, as explained before, Number 10 is sponge rubber entirely surrounding tubular member 11. This same tubular member is attached to a rather circular and flat base Number 13. In this same view, Fig. 4, the arrow Number 12 points to hole through base that continues from top to bottom of this aforesaid rubber applicator.

In carrying this invention into practice I first obtain a collapsible container which is shown in Fig. 1 in the form of a common collapsible tube made of soft pliable metal.

The views Figs. 1 and 2 show the invention of course in its complete and finished form.

To bring the invention to this stage of assembly I first take a collapsible tube or any other contractible container that is open at both ends. I then inject this pliable rubber applicator into and through bottom opening; pushing it up and part way through top mouth of tube. It is now in position as shown in X-ray view at Fig. 2 when applicator is in this aforesaid position tube is loaded with cream under pressure, bottom of tube is then permanently closed as shown in both the Figs. 1 and 2.

The pressure will be just enough to hold applicator in its correct position in mouth of container yet not enough to force cream out and through applicator until such extra pressure may be applied on outside of container, which of course takes place only in its use as a collapsible tube brush.

Having now described my invention, what I claim as new and desire to protect by Letters Patent is as follows:

1. A collapsible tube having an opening in one end, a rubber base closing the open end of said tube, there being a perforation through said base, an elastic nipple integral with said base and surrounding the perforation therein, and a sponge rubber distributor surrounding said nipple and secured to the nipple and to the base.

2. An applicator comprising a rubber base, a short tubular member projecting through and above said base and secured thereto, and a sponge rubber spreader attached to the base.

3. In combination a container; and an applicator connected therewith, comprising a rubber base having a short tubular member projecting above said base and a sponge rubber spreader surrounding the tubular member above the base.

This specification signed this 11th day of January 1926.

RUSSELL GEO. EVANS.