Feb. 1, 1938. S. R. WESTON 2,107,226

SQUEEZE TUBE CAP

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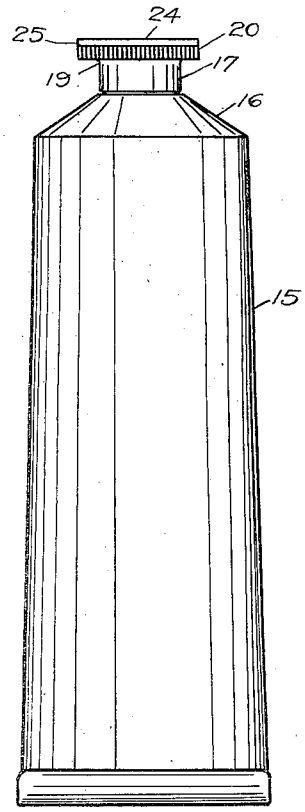

FIG. 1.

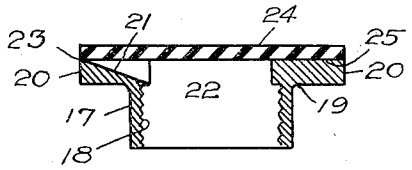

FIG 2.

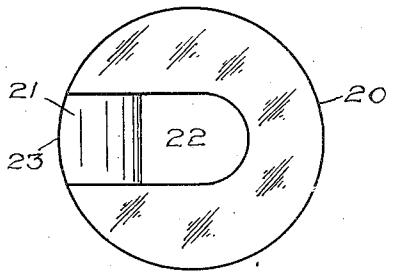

FIG 3.

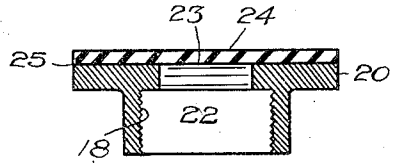

FIG. 4.

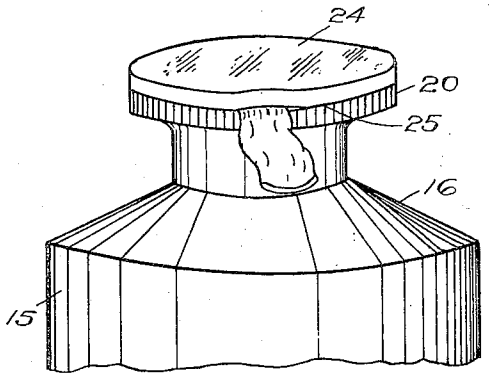

FIG. 5.

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UNITED STATES PATENT OFFICE

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SQUEEZE TUBE CAP

Sydney Royal Weston, Montreal, Quebec, Canada

Application July 28, 1936, Serial No. 92,949

3 Claims. (Cl. 221—60)

The invention relates to a squeeze tube cap as described in the present specification and illustrated in the accompanying drawing that forms part of the same.

The invention consists essentially in the resilient cover adapted to be moved through the pressure of the contents and capable of immediate recovery as pointed out in the claims for novelty following a description in detail of the preferred form of cap and its application.

The objects of the invention are to economize in the consumption in whatever form it may take according to its various uses; to maintain throughout the whole life of the tube a neat and finished appearance to the cap protection; to facilitate the operation of squeezing cream, or paste, or other preparations on to brushes used in applying it to the face, teeth, or other part, and generally to provide a finished looking article at a comparatively low first cost.

In the drawing, Figure 1 is an elevation of the form of squeeze tube showing the cap in its normal closed position.

Figure 2 is a sectional view of the cap disclosing the lip out of which the cream or other preparation finds its way, and exerts pressure on the cover.

Figure 3 is a plan view of the top of the cap without the cover showing the formation of the lip.

Figure 4 is a sectional detail at right angles to the detail illustrated in Figure 2.

Figure 5 is a perspective view of the top of the tube showing a ribbon of cream finding its way over the lip, and through the crack made by the temporarily lifted cover in the rim of the neck.

Like numerals of reference indicate corresponding parts in the various figures.

Referring to the drawing, the numeral **15** indicates a squeeze tube having the shoulder **16** converging into the neck **17**, which is externally threaded at **18**. The cap **19** is formed with a flat rim **20** through which the lip **21** rises at an incline on the interior of the barrel portion **22** to the edge **23**, which is quite flush with the remainder of the flat top to the cap, and describes an arc in shape.

The cover **24** is a perfectly flat disc inside and outside, and to be exactly the same measurements as the flat top of the cap, and not too thick, so that there will be always a certain amount of resiliency, especially when it is made of rubber, which is the preferable material. The cap is held on by a form of cement or glue **25**, except adjacent to the edge of the lip where the cream or other material can force its way through, and at the same time push the resilient cover **24** upwardly for the moment, as the rubber gives just to that extent to allow the discharge of the cream or other composition.

The use of this invention is obvious, and it is hardly necessary to describe it, but perhaps it will make it clear to say that in the operation, the tube is squeezed and this sends the cream or other flowing substance out through the lip, and in passing along this lip, it is naturally crowding and self-lifts the cover **24** to the extent necessary to push the ribbon of stuff outwardly on the tooth brush, or shaving brush, or any kind of commodity where it is required. It may be used for many purposes, so it goes without saying that it is an essential part of the squeeze tube mechanism, and will always keep the contents of the tube from constant contact with the air, and therefore maintain the condition of the cream or paste or whatever it may be in an excellent state, and thus mitigate a nuisance only too common in that particular toilet article or substance.

What I claim is:—

1. A container having a lip on the one side forming the outlet and having a flat surface on either side of the approach to said lip, and a sheet rubber disc adhered to the flat surfaces and completing a resilient closure.

2. A container converging to the neck externally threaded and having flat surfaces on either side of a discharge passage, a rubber disc closure adhered thereto and bridging said passage and engaging the rim adjacent to the edge of said disc.

3. A container converging to the neck and joining a rim having a flat top surface and an inclined passage therethrough to the edge flush with the remaining flat portion, and a disc of rubberlike material, and having elastic properties and firmly secured to said flat top, leaving a free edge around the lip terminating said passage.

SYDNEY ROYAL WESTON.