Sept. 20, 1949. J. H. CHAMPAGNE 2,482,653

COMBINED SHAVING BRUSH AND SHAVING CREAM DISPENSER

Filed Dec. 27, 1944

FIG. 1.

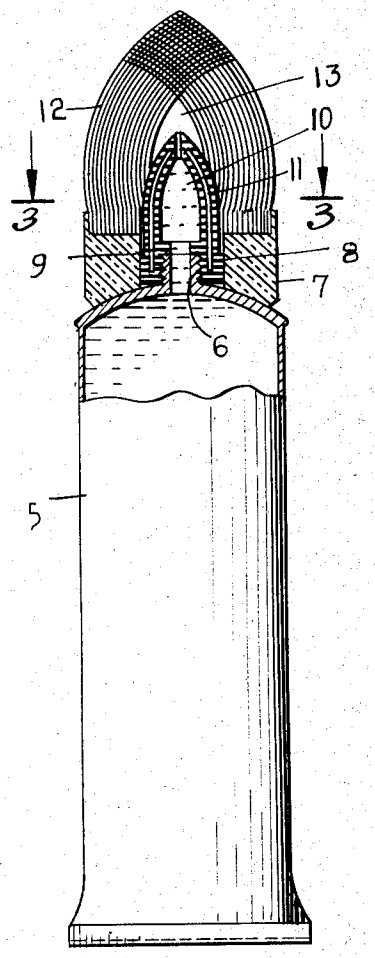


FIG. 2.

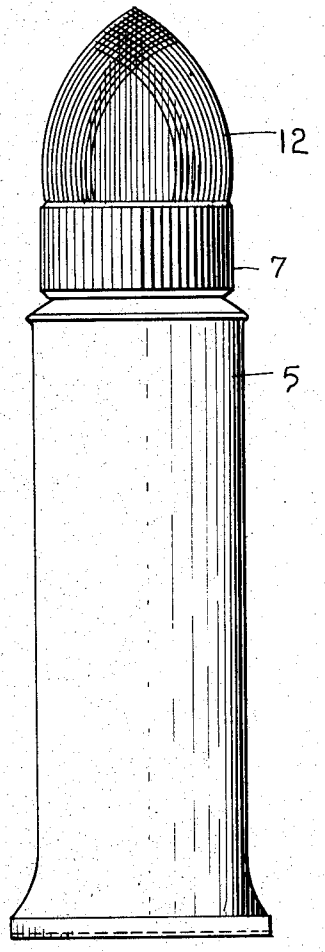
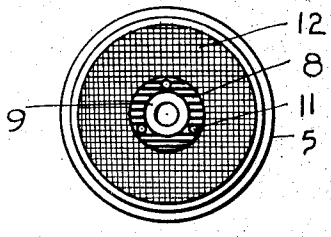


FIG. 3.



INVENTOR.
JOHN H. CHAMPAGNE.
BY
Carl Miller
ATTORNEY.

Patented Sept. 20, 1949 2,482,653

UNITED STATES PATENT OFFICE

2,482,653

COMBINED SHAVING BRUSH AND SHAVING CREAM DISPENSER

John H. Champagne, Milwaukee, Wis.

Application December 27, 1944, Serial No. 570,026

1 Claim. (Cl. 15—135)

1

This invention relates to a combined shaving brush and shaving cream dispenser, and one of its objects is to provide a shaving brush which is constructed to form a closure for a collapsible tube containing shaving cream, and which is provided with an axial passage through which the shaving cream may be dispensed by pressing upon the wall of the collapsible tube, so as to express its contents through the brush.

Another object of the invention is to provide a self closing valve at the core or center of the shaving brush, so that evaporation of the shaving cream will be checked when there is no pressure applied on the collapsible tube, but the valve will open when such pressure is applied on the collapsible tube.

With the above and other objects in view the invention consists in certain new and useful constructions, combinations and arrangements of parts, clearly described in the following specification, and fully illustrated in the accompanying drawings, in which:

Fig. 1 is a view partly in side elevation, and partly in longitudinal section, of the combined shaving brush and collapsible tube.

Fig. 2 is a full side elevation thereof.

Fig. 3 is a transverse sectional view, taken on line 3—3 of Fig. 1, looking in the direction of the arrows.

Referring to the accompanying drawings, which illustrate the practical construction of the invention, 5 designates a collapsible tube of standard commercial construction, which is provided with an externally threaded neck 6, on which the usual screw cap closure is threaded when the tube is sold to the customer.

The standard closure cap, not shown, is removed from the tube and my improved brush head 7 is attached to the neck of the tube. For this purpose the brush head 7 is provided with a core piece 8 of resilient or elastic rubber, which is molded to provide internal screw threads adapted to have threaded engagement with the external screw threads of the tube nipple or neck 6. Due to the elastic nature of the core piece 8 the internal or female screw threads of this core piece will have a gripping action on the male screw threads of the nipple or neck of the tube. This core piece is provided with a concentric shoulder 9 which engages the outer face of the neck 6, and prevents leakage of the shaving cream between the core piece and the tube neck or nipple.

Outwardly of the concentric shoulder or seat 9 the core piece is enlarged to form an internal

2

pocket 10, which is designed to hold a local supply of shaving cream. The wall of the core piece is made conical and thus comes to a point, which is pierced or slitted to provide a restricted discharge opening, and this wall is reinforced by means of wire springs 11, which are embedded in the rubber of which the core piece is constructed.

The brush head 7 is provided with a cluster of bristles 12, which are trained to overlap in conical formation to overlie the outer end of the core piece or nipple, and thereby trap any shaving cream which is discharged from the nipple, and also to provide a pocket 13 outwardly of the tip of the nipple for such discharged shaving cream.

The brush head 7 may be constructed of any suitable material, like hard rubber or plastic, and the bristles may be synthetic, and suitably embedded and fixed in the brush head.

The user compresses the collapsible tube by hand pressure and thereby expels some of the shaving cream into the pocket 13 of the bristles. By dipping the bristles into warm or hot water the required lather may be developed by the usual brushing action. The tube serving as a handle for the brush in developing the lather and in applying the lather to the face.

By this combination the use of the usual lather cup may be dispensed with, and the shaving cream is applied through the brush, so that only the amount required for a shave need be expelled from the brush at one time.

It is understood that various changes in the details of construction, arrangement and combinations of parts, may be resorted to, within the scope of the claim of this application.

Having described my invention I claim as new:

In a closure for a collapsible tube, including a projecting member of resilient material adapted to be attached to the neck of a collapsible tube and having a conical outer end provided with a normally closed discharge slot, a brush back of non-resilient material fitted around said projecting member, and bristles carried by the brush back extending outwardly of the conical outer end of the projecting member and providing a pocket outwardly of the discharge slot thereof, the combination of a plurality of arcuate spring members embedded in the projecting member and extending forward and inwardly therein from the portion adapted to be attached to the neck of the collapsible tube toward the slot in the conical end of the projecting member from

opposite sides thereof and exerting closing pressure upon the sides of said slot, and said conical projecting member having an inwardly extending concentric shoulder engageable with said neck to prevent leakage between the neck and the conical member and to provide a pocket to hold a supply of material from the collapsible tube.

JOHN H. CHAMPAGNE.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
566,264	Wynburn	Aug. 18, 1896
631,000	Symonds	July 9, 1901
677,851	Booth	July 9, 1901
850,220	Gotze	Apr. 16, 1907
1,072,322	Foster et al.	Sept. 2, 1913
1,300,651	Robbins	Apr. 15, 1919
1,992,518	Werner	Feb. 26, 1935
2,291,282	Hollenbeck	July 28, 1942