June 19, 1956 P. J. BRAZEMAN 2,750,615

SHAVING BRUSH

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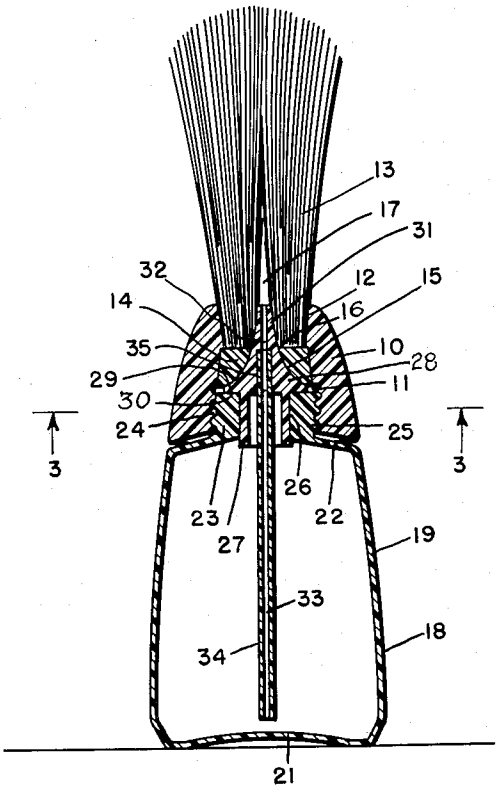


FIG. 2

FIG. 1

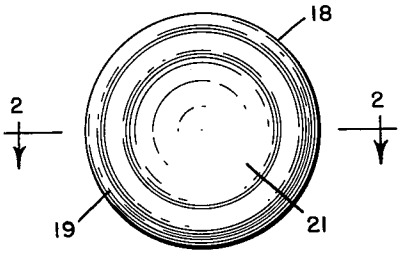
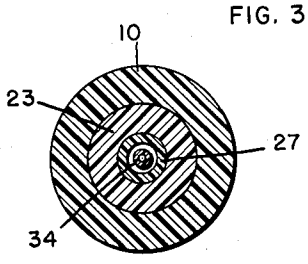


FIG. 3



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SHAVING BRUSH

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2 Claims. (Cl. 15—136)

The herein disclosed invention relates to shaving brushes and has for an object to provide a shaving brush utilizing as the handle a collapsible disposable receptacle in which the soap is contained and which upon squeezing injects the soap into the spaces between the bristles of the brush.

Another object of the invention resides in providing a construction in which leakage is prevented.

A still further object of the invention resides in providing a brush having a body with a cavity therein and bristles mounted in and issuing from the body and in further providing a flexible receptacle having a neck received within said cavity and having an opening therein and in further providing a stopper received in said opening and closing the receptacle.

Another object of the invention resides in constructing said stopper with a nozzle projecting outwardly therefrom and said body with a conical seat against which said nozzle is seated.

An object of the invention resides in constructing the stopper with a shoulder engageable with the end of the neck, and the neck and body with threads adapted to urge the nozzle against the seat and the neck against the shoulder.

A feature of the invention resides in providing a tube attached to and extending inwardly into the receptacle for bringing the spaces between the bristles into communication with the interior of the receptacle.

Other objects of the invention reside in the novel combination and arrangement of parts and in the details of construction hereinafter illustrated and/or described.

In the drawing:

Fig. 1 is an inverted end view of a shaving brush illustrating an embodiment of the invention.

Fig. 2 is an elevational longitudinal sectional view taken on line 2—2 of Fig. 1.

Fig. 3 is a cross sectional view taken on line 3—3 of Fig. 2.

In the drawing a shaving brush has been shown comprising a body having bristles attached thereto and extending outwardly therefrom. Associated with the body is a collapsible disposable receptacle constructed with a neck issuing outwardly therefrom. The body is formed with a cavity in which the neck extends and threads acting between the neck body serve to attach the receptacle to the body. The neck of the receptacle is constructed with an opening closed by means of a stopper. The stopper has a conical shaped nozzle projecting outwardly therefrom and which is adapted to seat on a conical seat formed in the body. This nozzle extends through an opening in the body and into a passageway formed in the bristles of the brush. A tube attached to said stopper and extending inwardly into the receptacle brings the interior of the receptacle into communication with the passageway in the bristles whereby the soap may be injected into the spaces between the bristles when the tube is collapsed. The stopper is formed with a shoulder engageable with the end of the neck and which is urged into engagement therewith concurrently with the nozzle being urged into engagement with said seat upon screwing of the neck into the body.

The invention consists of a body **10** constructed of some plastic material adapted to be molded and formed into the desired shape. This body has a cavity **11** in one end thereof and a bore **12** in its other end and communicating with said cavity. In the bore **12** are cast bristles **13** which are held in place by means of an adhesive adapted to solidify upon setting which impregnates the bristles and forms an end structure at the base of the bristles. This end structure is formed with an opening **16** therein communicating with an axial passageway **17** in the bristles **13** and which in turn communicates with the space between the bristles outwardly of the body.

Cooperating with the body **10** is a collapsible receptacle **18** constructed of some suitable flexible plastic material adapted to collapse when pressure is applied to the same. The receptacle **18** has a wall structure **19** and a base **21** connected thereto and situated at one end of said wall structure. The other end of the wall structure has issuing inwardly therefrom a flange **22** which terminates in an outwardly extending neck **23**. The body **10** is constructed with internal threads **24** while the neck **23** is constructed with external threads **25** adapted to screw into the threads **24** and hold the receptacle attached to the body. The neck **23** is further constructed with an axial opening **26** through which soap may be inserted into the receptacle.

For closing the opening **26** a stopper **27** is employed which is adapted to be inserted into said opening. This stopper is constructed with a nozzle **28** projecting outwardly therefrom having a tip **31** and an adjoining conical portion adapted to seat against a conical seat **15** formed on the end structure **14** in the body **10** and encircling the opening **16** therein. The said stopper is also constructed with a shoulder **29** adapted to seat against the end **30** of said neck. The tip **31** of the nozzle **28** extends through the opening **16** and into the passageway **17**. This nozzle has a passageway **32** communicating with the passageway **17** in the bristles **13** and also with the bore **33** of a tube **34**. Tube **34** is received in a socket **35** formed in the stopper **27** which terminates short of the nozzle **28** and said tube extends inwardly into the receptacle **18** to within a short distance of the base **21** of said receptacle.

In the manufacture of the receptacle the same is filled with soap and the stopper **27** having the tube **34** attached thereto inserted into the opening **26** in said receptacle. A temporary cap, not shown in the drawings, is then screwed on the threads **25** of the receptacle to close the same until desired for use. In the use of the invention the temporary cap is first removed and discarded. The receptacle **18** is then screwed into threads **24** in body **10** until the parts occupy the position shown in Fig. 2. When properly applied the nozzle **28** is seated on seat **15** and shoulder **29** engages the end **30** of neck **23**. Soap may now be injected into the passageway **17** in bristles **13** and from said passageway the soap finds its way into the spaces between the bristles. This is accomplished by squeezing the wall structure **19** of receptacle **18**. When a sufficient quantity of soap has been injected into the bristles the brush is used in the customary manner.

The advantages of the invention are manifest. The device is extremely simple and foolproof and avoids the mess ordinarily encountered in the use of shaving soap applied to the brush in the customary manner. By means of the seat formed in the body of the brush and against which the nozzle seats, leakage of soap out of the handle of the brush is prevented. At the same time the shoulder on the stopper prevents leakage between the stopper and the receptacle. When the parts are screwed together the threads simultaneously urge the shoulder against the neck

and the stopper against the seat. The device can be constructed at a nominal expense and will operate indefinitely without inconvenience. If desired, the parts can be readily disassembled and cleaned. When the receptacle is empty the same can be removed and discarded and a new filled receptacle substituted.

Changes in the specific form of the invention, as herein described, may be made within the scope of what is claimed without departing from the spirit of the invention.

Having described the invention, what is claimed as new and desired to be protected by Letters Patent is:

1. In a shaving brush, a body having a cavity therein and being formed at said cavity with internal threads, a flexible receptacle, a neck formed on said receptacle and received within said cavity, said neck having external threads screwed into the threads in said body, said body having a bore communicating with said cavity and coaxially disposed with said neck, bristles mounted in said bore and issuing from said body and having a passageway therein communicating with the space between said bristles, an end structure within said cavity at the base of the bristles and having an opening therethrough communicating with the passageway in said bristles and the interior of said cavity, an annular conical seat formed on said end structure and encircling the opening in said end structure, a stopper received in and closing the opening in said neck, a nozzle on the end of said stopper extending outwardly therefrom and having a tip extending into the passageway in said bristles and a conical portion adjoining said tip and seated against the conical seat, said nozzle and stopper having a passageway therein communicating with the space between the bristles and the interior of the receptacle.

2. In a shaving brush, a body having a cavity therein and being formed at said cavity with internal threads, a flexible receptacle, a neck formed on said receptacle and received within said cavity, said neck having external threads screwed into the threads in said body, said body having a bore communicating with said cavity and coaxially disposed with said neck, bristles mounted in said bore and issuing from said body and having a passageway therein communicating with the space between said bristles, an end structure within said cavity at the base of the bristles and having an opening therethrough communicating with the passageway in said bristles and the interior of said cavity, an annular conical seat formed on said end structure and encircling the opening in said end structure, a stopper received in and closing the opening in said neck, a nozzle on the end of said stopper extending outwardly therefrom and having a tip extending into the passageway in said bristles and a conical portion adjoining said tip and seated against the conical seat, said conical portion at its base being of greater diameter than said stopper to form a shoulder engaging the end of said neck, said nozzle and stopper having a passageway therein communicating with the space between the bristles and the interior of the receptacle.

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