July 31, 1956 A. B. MILLER 2,756,908

AUTOMATIC SHAVING BRUSH HEAD

Filed Feb. 17, 1954

Fig. 1.

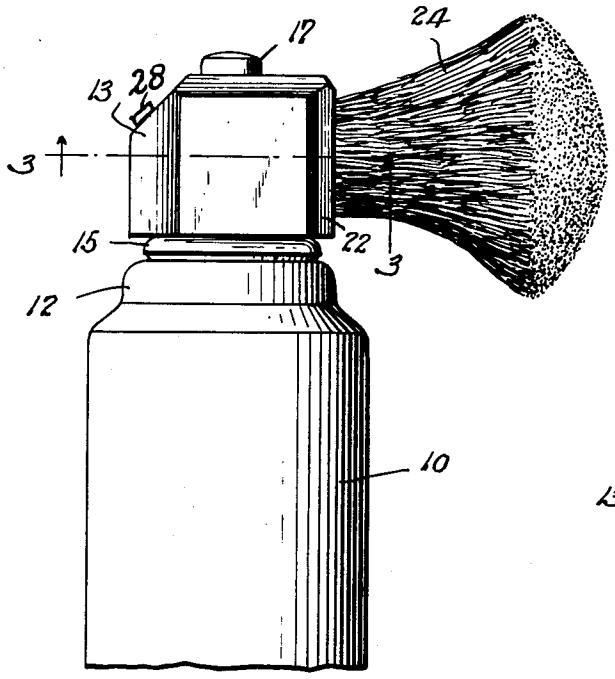


Fig. 3.

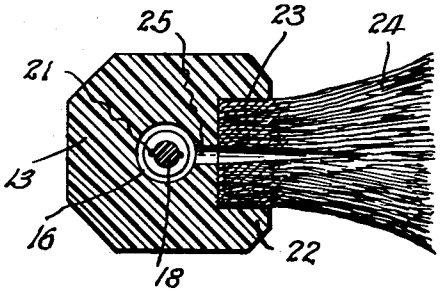


Fig. 2.

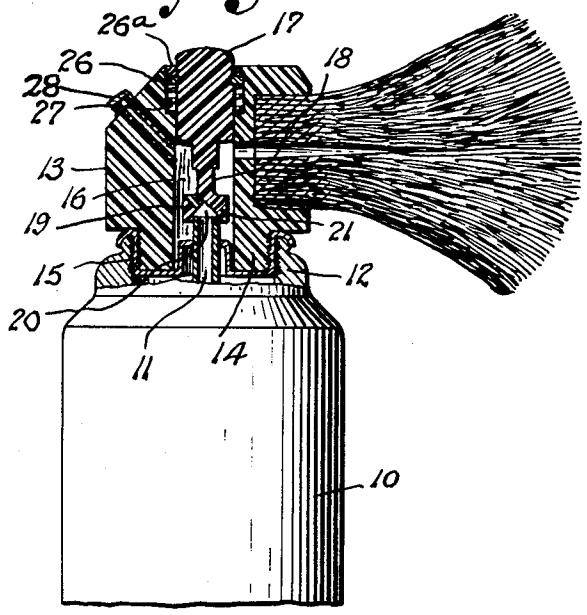
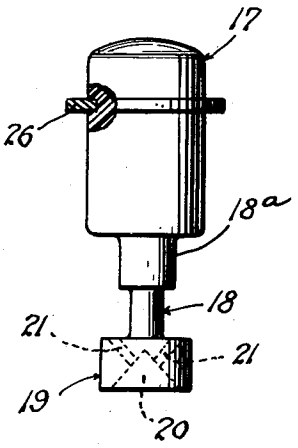


Fig. 4.



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AUTOMATIC SHAVING BRUSH HEAD

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1 Claim. (Cl. 222—394)

This invention relates to a dispensing device for conducting shaving soap from an ordinary container to a brush, the invention being preferably termed an automatic shaving brush head.

One important object of this invention is to provide an attachable head for soap containers, whereby contents emitted from the container will be directed to a shaving brush.

A second important object of the invention is to provide a device of this description whereby, upon application of the head, soap will be ejected from the ordinary soap container automatically.

A third important object of the invention is to provide a device of this character whereby a brush carrying element may be detachably connected to the top of an ordinary container having a supply of soap and wherein an element may be operated to actuate the soap dispensing nozzle of the container.

With the above and other objects in view, the invention consists in general of certain novel details of construction and combinations of parts hereinafter fully described, illustrated in the accompanying drawings, and particularly claimed.

In the accompanying drawings, like characters of reference indicate like parts, and:

Fig. 1 is a side elevation of the upper part of a soap container with the invention applied thereto.

Fig. 2 is a view similar to Fig. 1 with the brush carrying device shown in section.

Fig. 3 is a section on the line 3—3 of Fig. 1.

Fig. 4 is a detailed view of the nozzle actuating means used in this invention.

In the invention as here illustrated there is shown a container **10** adapted to supply lather for shaving through a discharge nozzle **11**, which acts, when depressed, to permit ejection of shaving lather for use by the person proposing to shave himself. These containers are well known on the general market with this nozzle arrangement. When the nozzle **11** has been depressed the shaving lather is ejected from the tube or nozzle **11** on to the fingers of the user. He then, in the present old manner, applies this finger-carried lather to his face and proceeds with the shaving.

In the present invention the device is intended to direct shaving lather from the nozzle **11** within the central part of a brush without the intervention of the fingers at all. In the type of the common container **10** herein shown, there is provided on its edge an annular flange **12** concentric to the tube or nozzle **11**.

The present invention consists of a body **13** having a reduced lower end **14** carrying washer member **15** which fits in the annular flange **12**. The member **13** has a bore **16** extending therethrough. In this bore is mounted a push button plunger **17** having a stem **18***a* upon which is mounted a reduced lower end **18** provided with an operating head or operator **19** fitting loosely in the bore **16**. The head or operator **19** has a conical recess **20** in its

bottom and from this recess extends radial ejection passages **21**. From the body **13** extends a lateral portion **22** socketed as at **23** (Fig. 3) to contain a shaving brush **24**. A passage **25** leads from the bore **16** to the central part of the shaving brush. In the utilization of the invention the reduced end **14** with its screw threads **15** is fitted tightly onto flange **12** of the container **10**. At this time the plunger **17** projects above the body **13** and the head **19** rests loosely on top of the nozzle **11**. When it is desired to obtain a supply of shaving lather from the container **10**, the plunger **17** is depressed and this in turn depresses the nozzle **11**, whereupon shaving lather is ejected from the container **10** into the recess **20** and from there passes through the passages **21** into the bore **16**. From the bore **16** this lather flows through the passage **25** to the center of the brush **24**, and then the lather may be applied directly to the face of the person using the device without the use of the fingers when spreading or distributing the lather over the person's face.

As shown in Figure 2, the plunger **17** carries a collar **26**, the upper end of the bore **16** being enlarged to accommodate this collar. Between the collar **26** and the bottom of the enlarged portion, there is provided a spring **27** which normally holds the plunger raised.

In the upper end of body **13** is fixedly secured a washer **26***a*, against which movable collar **26** bears.

A closed chemically heated tube **28** is provided for heating the lather, if desired, and is movable into passage **16** by manual pressure on an extending push button **28**.

It is to be noted that by using my invention, hands filled with slimy, sticky lather soap are eliminated. My automatic shaving brush head saves shaving lather due to the pressure button regulator. It eliminates hands being used to lather the face and produces a better rubbing-in job. Towels are not needed because the user's hands are not messy. It saves time because old-fashioned shaving jugs and separate shaving brushes are not used.

It is obvious that minor changes may be made in the form and construction of this invention without departing from the material principles thereof. It is not, therefore, desired to confine the invention to the exact form herein shown and described, but it is wished to include all such as properly come within the scope claimed.

What is claimed is:

In a dispensing cap for an automatic lather dispensing device adapted to dispense lather directly into a brush, said cap being adapted to engage in hermetically sealed relation a container for shaving-lather under pressure, said cap having a vertical bore therein, a movable nozzle communicating said bore with said container, an operator in said vertical bore, said operator including a stem having a conical recess in its lower end and radial passages extending from said recess, said stem having a circumferential recess in said bore into which said radial passages extend, a push button on said operator, a right angle passage in said cap, and depression of said operator causing extrusion of said lather through said right angle passage.

References Cited in the file of this patent

UNITED STATES PATENTS

1,106,378	Hardman	Aug. 11, 1914
1,248,622	Cooper	Dec. 4, 1917
2,281,604	Smith	May 5, 1942
2,328,863	Threm	Sept. 7, 1943
2,417,370	Magann et al.	Mar. 11, 1947
2,678,147	Abplanalp	May 11, 1954

FOREIGN PATENTS

782,494	France	Mar. 18, 1935