

Aug. 12, 1947.

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2,425,474

FOUNTAIN SHAVING BRUSH WITH HAND-FEED VALVE

Filed Dec. 30, 1943

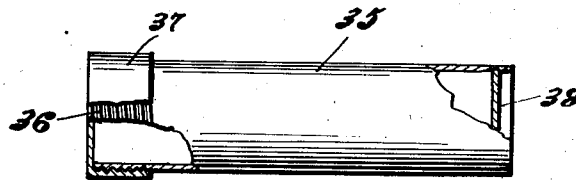


Fig. 4.

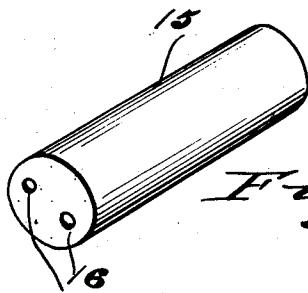


Fig. 3.

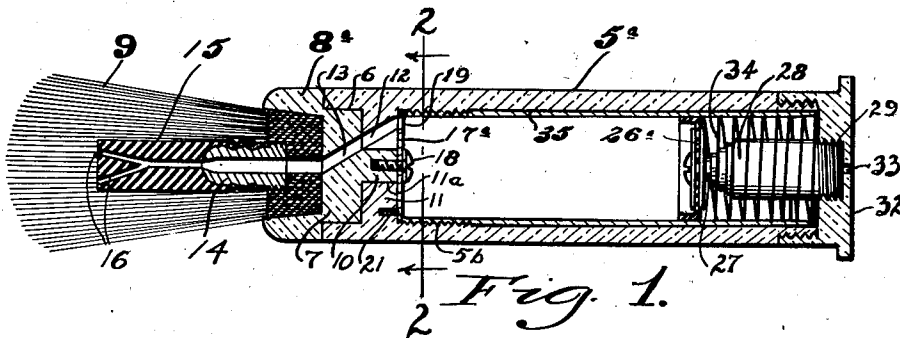


Fig. 1.

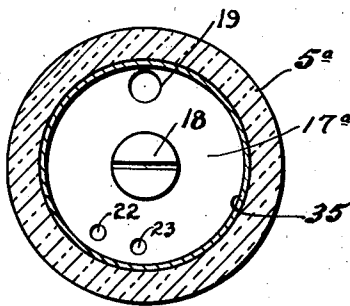


Fig. 2.

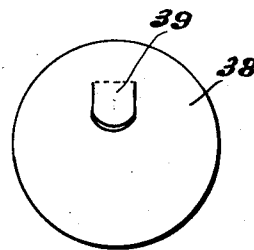


Fig. 5.

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# UNITED STATES PATENT OFFICE

2,425,474

## FOUNTAIN SHAVING BRUSH WITH HAND-FEED VALVE

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Application December 30, 1943, Serial No. 516,228

1 Claim. (Cl. 15—138)

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This invention relates to new and useful improvements in shaving brushes and more particularly to a brush containing a supply of shaving cream or other shaving preparation.

The principal object of the present invention is to provide a fountain shaving brush containing a supply of shaving preparation which can be dispensed to the bristles of the brush in an easy and proportionate manner.

Other objects and advantages of the invention will become apparent to the reader of the following description.

In the drawings:

Figure 1 represents a view in longitudinal section of the brush.

Figure 2 is a view in cross section taken on the line 2—2 of Figure 1.

Figure 3 is a perspective view of the nozzle.

Figure 4 is a fragmentary side elevational view of the shaving preparation containing cartridge partly in section.

Figure 5 is an end elevational view of the cartridge shown in Figure 4.

Referring to the drawings wherein like numerals designate like parts, it can be seen that the invention shown consists of an elongated barrel 5a which may be constructed of plastic or some other suitable material, the same having a bore 6 at one end for receiving the reduced end portion 7 of a brush head 8a from which bristles 9 extend. The reduced portion 7 of the head 8a has a trunnion 10 projecting therefrom and through a reduced bore 11a in the end wall 11 of the barrel 5. Through this end wall 11 is a duct 12 which is registrable with an oblique duct 13 extending through the head 8 and the base portion of the bristles 9. A nipple 14 projects from the head 8a into the bristles 9 and over this is disposed the inner end of a flexible nozzle 15 which has a plurality of discharge orifices 16. This flexible nozzle 15 may be used for massaging the face as lather is produced.

A disk valve 17a is secured by a screw 18 to the inner end of the trunnion 10, the same operating against the inner face of the wall 11. This disk valve 17a has an opening 19 which is registrable with the duct 12.

A spring-pressed ball 21 is provided in the wall 11 for engaging in one or the other of two recesses 22, 23 of the valve 17a so that the disk will be held either in preparation dispensing position or in closed position.

In the barrel 5a is a plunger 26' from which projects a guide 27 extending into a sectional telescopic tube 28 adapted to be elongated and

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contracted, the arrangement being such that when the plunger 26' moves to the left in Figure 1, the tube 28 elongates, and when said plunger 26' moves to the right, said tube 28 contracts.

The tube 28 is threaded, as at 29, into a cap 32 threaded onto the rear end of the barrel 5a. A back pressure relief vent 33 is provided in the cap 32.

A spring 34 circumscribes the telescopic tube 28 above described and is interposed between the plunger 26 and the cap 32.

By turning the head 8a to the position shown in Figure 1, the opening 19 in the valve disk 17a will register with the duct 12 to the end that the spring 34 and the plunger 26' will pour some of the preparation into and through the nozzle 15.

In the described form of the invention the inside of the barrel 5a adjacent the disk valve 17a is threaded as at 5b to receive the threaded end portion 36 of a cartridge 35 containing a shaving preparation and the plunger 26a operates in the cartridge after the cartridge has been inserted into the barrel 5a. It is preferable that the cartridge 35 be sold with a cap 37 disposed over the threaded end of the same and a removable disk 38 may be provided in the opposite end of the cartridge 35 so as to protect the contained preparation. The disk 38 may be provided with a tongue 39 to assist in displacing the same.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having described the invention, what is claimed as new is:

A fountain brush comprising a barrel, a shaving preparation containing cartridge threaded into said barrel from one end thereof, said cartridge having an open front end and a plunger therein for discharging the preparation out of said front end, a diametrical wall in said barrel spaced forwardly of said front end of the cartridge and having a through port therein for feeding the preparation discharged from said cartridge through said wall, said barrel having a front end bore therein, a bristle brush having a head rotatably fitted in said bore and a through port therein for alignment with the first named port by rotation of said head and to pass the preparation from the first named port

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into the bristles of the brush, and a disc valve rotatably fitted in said barrel between the front end of said cartridge and said wall for controlling the discharge of the preparation from the cartridge into this first named port, said valve having a discharge port in the same for registration with the first named port by rotation of the valve, and means to operatively connect said head to said valve passing through said wall for rotation of the valve by said head.

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