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FOUNTAIN BRUSH WITH SELF-CLOSING OUTLET TUBE

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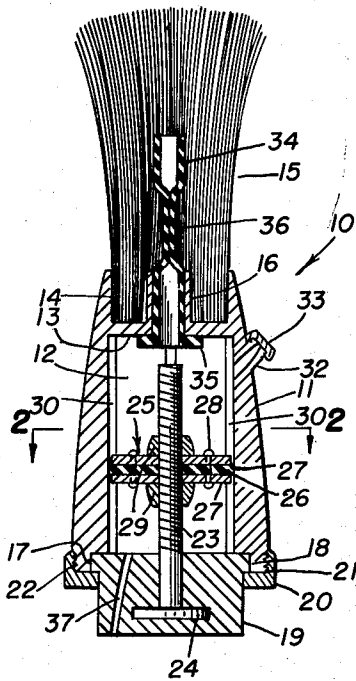


Fig. 1.

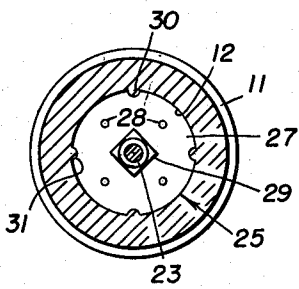


Fig. 2.

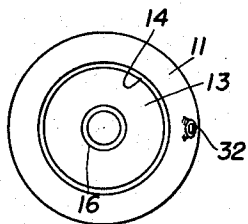


Fig. 4.

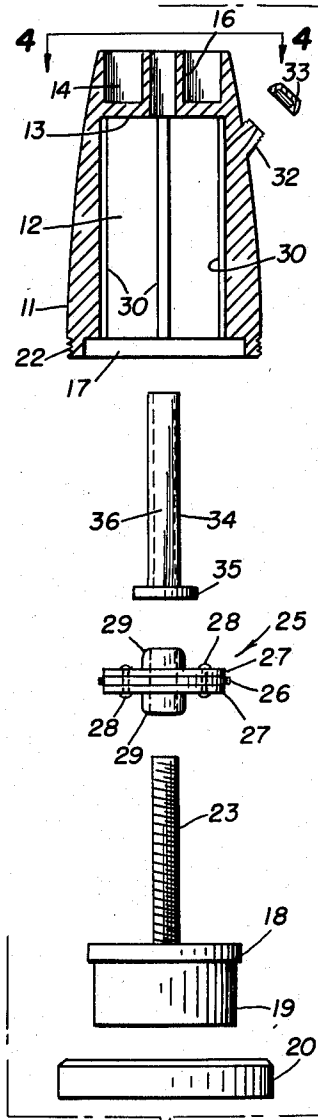


Fig. 3.

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FOUNTAIN BRUSH WITH SELF-CLOSING OUTLET TUBE

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1 Claim. (Cl. 15-137)

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This invention relates to new and useful improvements and structural refinements in shaving brushes, and the principal object of the invention is to provide a device of the character herein described, in which the shaving brush is equipped in the handle portion thereof with a receptacle and dispensing means for shaving cream.

A further object of the invention is to provide a shaving brush in which the shaving cream may be easily and conveniently dispensed and in which the shaving cream chamber or receptacle may be readily refilled when the contents thereof have been exhausted.

Another object of the invention is to provide a shaving brush in which the shaving cream dispensing means is of a self-sealing nature, so as to prevent the cream from drying when the brush is not in use.

An additional object of the invention is to provide a shaving brush which is simple in construction, durable, and which will readily lend itself to economical manufacture.

With the above more important objects in view, and such other objects as may become apparent as this specification proceeds, the invention consists essentially of the arrangement and construction of parts as illustrated in the accompanying drawings in which:

Figure 1 is a longitudinal cross sectional view of the invention;

Figure 2 is a cross sectional view, taken substantially in the plane of the line 2-2 of Figure 1;

Figure 3 is an exploded view showing the various components of the invention;

Figure 4 is an end view of the handle portion per se, the same being taken substantially in the plane of the line 4-4 in Figure 3.

Like characters of reference are used to designate like parts in the specification and throughout the several views.

Referring now to the accompanying drawings in detail, the invention consists of a shaving brush designated generally by the reference character 10, the same embodying in its construction a handle 11 forming a substantially cylindrical chamber 12, one end portion of this chamber being separated by a partition 13 to provide a recess 14, as is best shown in Figures 1 and 3.

The recess 14 is adapted for the mounting of the usual bristles 15, the latter being secured in position in any suitable manner. It will be also noted that the partition 13 is equipped with a

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tubular sleeve 16, the latter extending into the recess 14 and the purpose thereof being herein-after more fully described.

The chamber 12 is open ended at the remaining end of the handle 11 and the latter is provided with a counterbore 17 to rotatably receive an annular shoulder 18 formed integrally with a rotatable cap 19. The cap 19 is retained in position by an annular keeper flange 20 which is screw-threaded as at 21 and engages a correspondingly threaded portion 22 at the end of the handle 11.

A screw threaded shaft 23 is rotatable with the cap 19, this being facilitated by providing the shaft with an enlarged head 24 and embedding the headed end portion of the shaft in the cap, as is best shown in Figure 1.

A follower designated generally by the reference character 25 is operatively positioned on the shaft 23, the follower consisting of a sealing disk 26 formed from suitable resilient material and interposed between a pair of clamping disks 27. The three disks are secured together by suitable rivets 28 and the clamping disks 27 are provided with internally threaded bosses 29 which engage the shaft 23, as will be clearly understood.

The follower 25 is prevented from rotating with the shaft 23 by means of a plurality of guide ribs 30 which are provided on and extending longitudinally of the lateral wall of the chamber 12 and are slidably receivable in a plurality of notches 31 formed in the follower. It will be apparent that in this manner, rotation of the cap 19 will be concurrent with linear movement of the follower.

The shaving cream may be placed in the chamber 12 either by removing the parts 19, 20, 23 and 25 from the body 11, or alternatively, through the medium of a bored nipple 32 provided medially the length of the body. The nipple 32 is equipped with a screw cap 33 and communicates with the chamber 12, as will be clearly understood. A dispensing tube 34, preferably formed from resilient material, is positioned in the aforementioned sleeve 16 and extends into the bristles 15, one end portion of the tube, that is, the inner end portion of the tube being formed with an enlarged flange 35 which seats against the inner surface of the partition 13.

The mid-portion of the tube 34 is normally collapsed as indicated at 36, this providing what may be referred to as a self-sealing feature whereby the shaving cream in the chamber 12 is prevented from drying when the brush is not in use.

However, when the brush is being used, rotation of the cap 19 will advance the follower 25 to-

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ward the partition 13 and, as a result, shaving cream in the chamber 12 will be forced through the bore of the tube 34 and into the bristles 15. The advantages of the invention thus become clearly apparent and it is to be noted that since the outer end portion of the tube 34 is cylindrical, it will retain therein a certain amount of cream after the follower 25 is actuated, and this residual amount of cream may subsequently be discharged by applying pressure with the bristles to the face.

If desired, the cap 19 may be provided with an air passage 37, so as to prevent the tendency of partial vacuum being formed in the empty end of the chamber 12 as the follower 25 travels in the direction of the partition 13.

It is believed that the advantages and use of the invention will be clearly understood from the foregoing disclosure and, accordingly, further description thereof at this point is considered unnecessary.

While in the foregoing there has been shown and described the preferred embodiment of this invention it is to be understood that minor changes in the details of construction, combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

What I claim as my invention is:

In a fountain brush for use with shaving cream, the combination of a hollow handle affording a chamber therein and having an end wall provided with a central opening, a tuft of bristles extending outwardly from said end wall, a dispensing tube of resilient material disposed axially in said tuft of bristles and having an inner end portion thereof secured in said opening in communication with said chamber, and pressure means in said chamber for expelling material through said

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tube, said tube being substantially shorter than said bristles and including a cylindrical outer end portion and a flat deformable intermediate portion having contacting walls in the absence of pressure in the chamber whereby to provide closure means, the walls of said intermediate portion being deformable to an open substantially cylindrical form by the passage of material through said tube when said pressure means are actuated.

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