

UNITED STATES PATENT OFFICE.

LOUIS FOLTAN, OF NEW YORK, N. Y.

SHAVING BRUSH.

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To all whom it may concern:

Be it known that I, LOUIS FOLTAN, a citizen of Hungary, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Shaving Brushes, of which the following is a specification.

This invention relates generally to brushes, having particular reference to a brush in which are embodied means for feeding the material used in connection with the brush, upon the desired surface, the invention being intended more particularly for embodiment in shaving brushes.

The invention has for a general object the provision of a novel and simple construction whereby shaving cream contained in a flexible container within the toothbrush handle, may be fed to the brush bristles.

A further object of the invention is the provision of a subsidiary means for completely discharging the paste from the feed passage through the brush handle.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

Fig. 1 of the drawing is a perspective view, showing my invention embodied in a shaving brush.

Fig. 2 is a central longitudinal sectional view thereof.

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

Fig. 4 is a fragmentary central longitudinal sectional view showing a modification.

Fig. 5 is a transverse sectional view of this modified form of the brush, taken on the line 5—5 of Fig. 4.

In constructing my improved brush I provide a cylindrical block 10, in which are set the bristles 11 of the material, and in a general arrangement, common to shaving brushes. Leading centrally through this block 10 from end to end thereof is a passage 12, the bristles being grouped around the exit end of this passage, as indicated in Fig. 2, leaving a central space 13 into which the shaving cream is discharged.

At its inner end the passage 12 is enlarged and screw threaded as at 14 to receive

the usual threaded head formed on the discharge end of the flexible containers or tubes in which shaving cream is commonly sold.

The body of the tube or container, whose head is thus engaged with the block 10, is contained in a cylindrical casing 16 which is secured at its forward end to the block, the latter having a diminished rear extension 17 over which the front end of the casing 16 engages. The casing 16 is secured in place by means of a collar 18 screwed on the block 10 and having an inwardly projected rear end which bears on an out-turned flange 19 on the front end of the casing.

The tube containing the shaving cream extends, when full, substantially the full length of the casing 16 and is gradually compressed, to discharge the cream, by means of a follower comprising a pair of disks 25 united by a web 26, the ends of the web extending radially beyond the disks, through a pair of longitudinal slots 27 in the casing 16, and uniting with a thimble 28 slidable on the casing.

The thimble is adapted to be engaged, to move the follower along the casing, by a barrel 30 which freely surrounds the latter and the thimble. The thimble is exteriorly screw threaded, while the barrel is correspondingly interiorly screw threaded from end to end, the threads in the barrel engaging the threads on the thimble. As will be apparent, a relative rotary movement of the casing 16 and barrel 30 will cause the follower to travel along the casing. The barrel 30 is held against longitudinal movement, at its front end by engagement with the collar 18, and at its rear end by a cap 34 which is screwed on the rear end of the casing 16. To cause the barrel to fit snugly on the casing a pair of collars 35 are fitted in opposite ends thereof to fill the space between the barrel and the casing.

To regulate the flow of cream through the passage I may provide a rotary plug valve 36 in the block 10, this valve having a head 37 for turning purposes and being provided with a projection 38 adapted to bear against stop elements 39 when the valve is in respective open and closed positions.

In Figs. 4 and 5 I have shown an arrangement whereby the cream may be forced out of the passage 12 into the space 13. In this

construction the block 10 is formed with a series of small passages 50 leading radially outward from the central passage 12 these passages 50 communicating with the periphery of the block at a point between a pair of flanges 51 formed, and spaced longitudinally apart, on the latter. Stretched over these flanges 51, and making air-tight contact therewith, is a sheet rubber drum 52. Each of the passages 50 has a one-way valve 53 therein which allows the air to pass into the central passage. Mounted on one of the flanges is an air inlet valve 54 of ordinary construction. To discharge the cream from the passage 12, the drum 52 is compressed between the thumb and forefinger, forcing air into said passage, the drum being alternately compressed and released until the cream is discharged.

Having thus described my invention what I claim as new and desire to protect by Letters Patent of the United States is as follows:—

1. A shaving brush comprising a circular block having an axial passage leading therethrough, bristles on said head grouped about the mouth of said passage to leave a central space, a hollow handle fixed to said block and adapted to enclose a flexible shaving cream container, a follower in said handle, and means for moving said follower longitudinally of said handle, and a valve controlling the said passage through the said block, and a device communicating with the said passage for forcing air under pressure thereinto to expel the cream therefrom.

2. A shaving brush comprising bristles, a hollow handle adapted to enclose a collapsible shaving cream container, means for collapsing the said container to discharge the cream through an orifice in the handle to the said bristles, and an air pressure device in communication with said orifice for expelling the cream from said orifice.

3. A shaving brush comprising bristles, a hollow handle adapted to enclose a collapsible shaving cream container, means for collapsing the said container to discharge the cream through an orifice in the handle to said bristles, and an air pressure device in communication with said orifice for expelling the cream from said orifice, said air pressure device including a cylindrical flexible drum surrounding and spaced from the said handle.

4. A shaving brush comprising a circular block having an axial passage leading therethrough, bristles on said head grouped about the mouth of said passage to leave a central space, a hollow handle fixed to said block and adapted to enclose a flexible shaving cream container, a follower in said handle, and means for moving said follower longitudinally of said handle, a sheet rubber drum surrounding and spaced from said block, said block having passages leading radially therethrough and communicating at opposite ends with said axial passage and the interior of said drum.

5. A shaving brush comprising a circular block having an axial passage leading therethrough, bristles on said head grouped about the mouth of said passage to leave a central space, a hollow handle fixed to said block and adapted to enclose a flexible shaving cream container, a follower in said handle, and means for moving said follower longitudinally of said handle, a sheet rubber drum surrounding and spaced from said block, said block having passages leading radially therethrough and communicating at opposite ends with said axial passage and the interior of said drum, and inlet valves in said passages and in the wall of said drum.

In testimony whereof I have affixed my signature.

LOUIS FOLTAN.