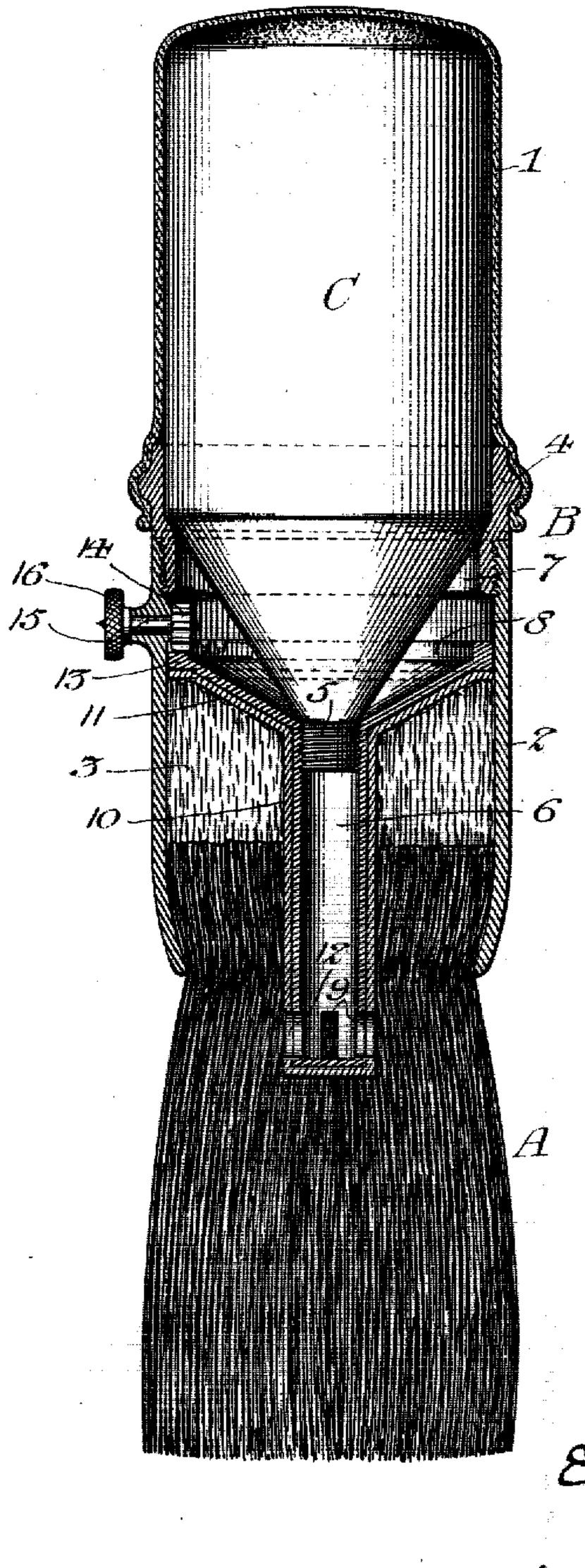
No. 825,448. PATENTED JULY 10, 1906.

E. A. FARRON.

SHAVING BRUSH.

APPLICATION FILED DEC. 18, 1905.



Witnesses:
Louis W. J. Whitehead
O. C. Freiberg

Inventor:
Elie A. Farron
by Chas. G. Page
Atty.

UNITED STATES PATENT OFFICE.

ELIE A. FARRON, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO ERNEST E. BELL, OF GLENRIDGE, NEW JERSEY.

SHAVING-BRUSH.

No. 825,448. Specification of Letters Patent. Patented July 10, 1906.

Application filed December 18, 1905. Serial No. 292,191.

To all whom it may concern:

Be it known that I, ELIE A. FARRON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Shaving-Brushes, of which the following is a specification.

The accompanying drawing is a longitudinal central section of a shaving-brush embodying the principles of my invention.

In said drawing, A indicates the bristle portion of the brush, and B denotes the handle of the same. The handle is made hollow to contain a flexible tube C of liquid soap and to provide a duct for receiving liquid soap from the flexible supply-tube and for discharging the same into the bristle portion of the brush.

The handle of the brush comprises a hollow elastic portion 1, preferably made of vulcanized rubber, and adapted to receive a flexible tube C, containing liquid soap. This elastic handle portion 1 is suitably provided or connected with a socket portion 2, adapted to receive and hold one end of the bunch of bristles, the socket being preferably rigid and the bristles being held therein in any suitable way—for example, by cement 3. As shown, the flexible handle portion 1 is attached to a screw collar or coupling 4, and this coupling is removably coupled with a screw-threaded end portion of the socket 2, whereby when the soap in the tube is exhaused the handle portion 1 and collar or coupling 4 can be removed from the socket 2, so as to permit the empty tube to be removed and a full tube substituted therefor. The contracted discharge end 5 of the soap-holding tube is externally threaded and screwed into an internally-threaded end portion of a short tube 6, arranged to form a discharge-duct extending from the bore or chamber 7, in which the soap-holding tube C is confined. The tube 6, which is of less diameter than the diameter of the chamber 7, is provided or unites at its upper end with a bearing flange or diaphragm 8, having its margin fitted to the inner wall of the socket 2. The tube 6 is also preferably closed at its lower end and provided at points above such end closure with lateral discharge-ports 9 for the passage of liquid soap from the discharge-duct into the bristle portion of the brush, it being observed that the ported end portion of the tube 6 extends into the bristle portion of the brush below the cemented portion thereof.

The brush is also provided with a valve device for closing the discharge-ports 9. The valve device shown consists of a tube 10, provided with an upper flaring end portion or flange 11, having its outer edge secured to the inner wall of the socket 2. The tube 6 is fitted to turn within the tube 10, and the upper bearing portion 8 of the tube 6 is fitted to seat and turn upon the flaring portion 11 of the tube 10. The tube 10 is provided with ports 12, corresponding with ports 9 of the inner duct-tube 6, so that by turning the latter the ports 9 and 12 can be placed in or out of register, as may be desired. The flange or diaphragm 8 and the tube 6 turn as a whole upon the bearings provided by the outer tube 10 and the flange or diaphragm 11, and the tube 11 is also preferably closed at its lower terminal in correspondence with the closure of the lower terminal of tube 6. In order to turn the tube 6, so as to open or close its ports, the flange or diaphragm 8 has a part of its marginal portion provided with a rack 13, which is engaged by a pinion 14 on a spindle 15. The spindle 15 extends through a suitable bearing with which socket 2 is provided and has on its outer end a milled head 16.

The main body portion of tube C, which fits within the elastic handle portion 1, is made of tin-foil or like material, such as is commonly used for paint-tubes. By grasping and squeezing the elastic handle portion 1 the tube C can be squeezed sufficiently to cause a suitable quantity of liquid soap to be ejected from such tube into the discharge-duct and thence into the bristle portion of the brush when the discharge-ports are open.

For the broader purposes of my invention the hollow handle comprises the socket portion 2, as well as an upper elastic portion. While the tube C is flexible, it is preferably non-elastic. By pressing the elastic handle portion 1 laterally inward the tube C will be pinched or compressed; but upon releasing pressure on the elastic handle portion 1 such elastic handle portion will spring out to its normal shape.

What I claim as my invention is—

1. A shaving-brush comprising a hollow handle having an elastic portion which can

be pressed laterally inward, a bristle portion, a flexible tube removably held within the hollow handle and containing liquid soap and having one end open for discharge, and a duct arranged to receive liquid soap ejected from the flexible tube and to discharge the same into the bristle portion of the brush, the flexible tube being compressed to eject the liquid soap by laterally-inward pressure against the elastic handle portion.

2. A shaving-brush comprising a hollow handle having an elastic portion which can be pressed laterally-inward, a bristle portion, a flexible non-elastic tube adapted to contain liquid soap and removably held within the hollow handle and having one end open for discharge, and a duct arranged to receive liquid soap discharged from the flexible non-elastic tube and to discharge the same into the bristle portion of the brush, the flexible tube being compressed to eject the liquid soap by laterally-inward pressure against the elastic handle portion.

3. In a shaving-brush, a hollow handle having an elastic portion which can be pressed laterally inward; a bristle portion; a flexible tube removably held within the hollow handle and containing liquid soap and having one end open for discharge; a duct arranged to receive liquid soap ejected from the flexible tube and to discharge the same into the bristle portion of the brush, the flexible tube being removably connected at its open end with the said duct; and a valve for controlling the discharge of liquid soap into the bristle portion of the brush; the flexible tube being compressed by laterally-inward pressure against the elastic portion of the handle.

4. In a shaving-brush, a hollow handle adapted to receive a flexible tube containing liquid soap; a bristle portion; a duct having one end internally threaded and arranged to receive the threaded discharge end of a flexible tube containing liquid soap and held within the hollow handle, the duct being prolonged to extend and discharge into the bristle portion of the brush; and means for controlling the discharge; the hollow handle being provided with an elastic portion which can be pressed laterally inward for the purpose set forth.

5. A shaving-brush constructed with a hollow elastic handle portion, a socket portion with which the hollow elastic portion is detachably connected, a ported discharge-tube arranged within the socket portion and supported to turn axially, said tube being extended into the bristle portion, a stationary ported tube within which the said discharge-tube is fitted to turn, and means for turning the discharge-tube.

6. A shaving-brush constructed with a hollow elastic rubber handle portion 1, a socket portion 2, a bristle portion, and a discharge-tube arranged to discharge within the bristle portion and having an upper receiving end portion internally threaded and adapted to receive the threaded end 5 of a tube C introduced within the hollow handle.

7. A shaving-brush comprising a hollow handle having an upper elastic rubber portion 1, and a lower socket portion 2, a bristle portion held by the socket portion, a partition arranged between the bristle portion and the upper rubber portion 1, and having a central discharge-tube extending down within the bristle portion, and a valve device for opening and closing the discharge-tube.

ELIE A. FARRON.

Witnesses:
CHARLES G. PAGE,
OTTILIE C. FREIBERG.