R. W. SMITH, Jr.

SHAVING BRUSH.

APPLICATION FILED NOV. 7, 1916.

Patented Mar. 20, 1917.

1,220,020.

FIG. 1.

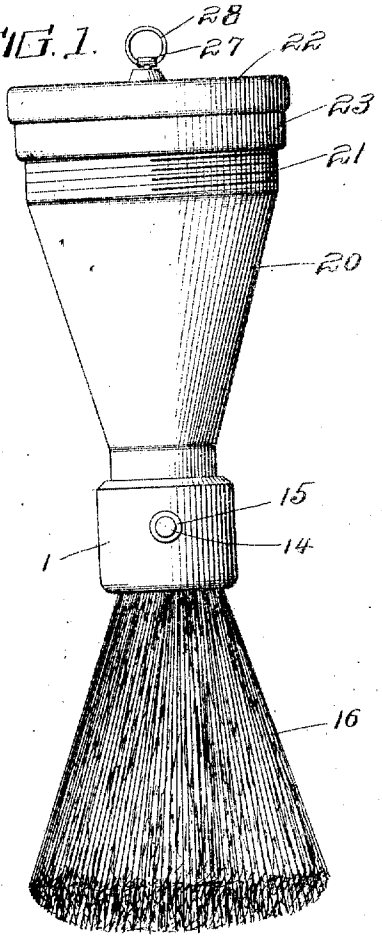


FIG. 2.

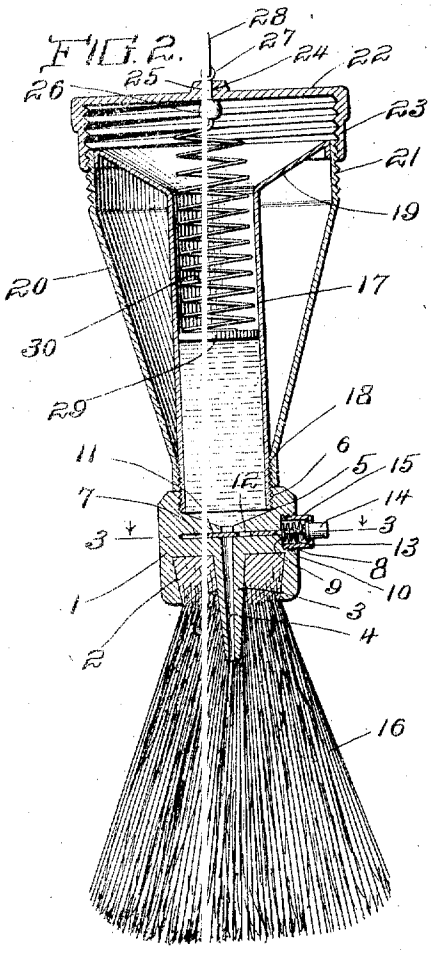


FIG. 3.

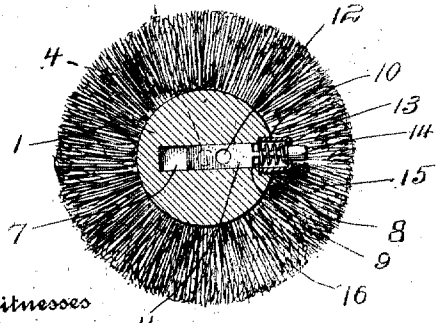
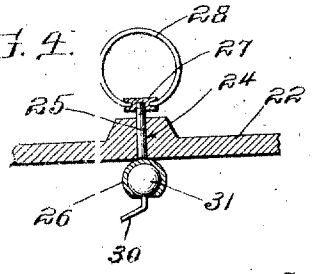


FIG. 4.



Witnesses

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SHAVING-BRUSH.

1,220,020. Specification of Letters Patent. Patented Mar. 20, 1917.

Application filed November 7, 1916. Serial No. 130,007.

To all whom it may concern:

Be it known that I, REUBEN W. SMITH, Jr., a citizen of the United States, residing at Huron, in the county of Fresno and State of California, have invented new and useful Improvements in Shaving-Brushes, of which the following is a specification.

This invention relates to a shaving brush of the fountain type.

The primary object of the invention is to provide a brush of this character having a handle in which is mounted a reservoir for the reception of shaving cream or the like, and connected with the brush body in such a manner that when the slide valve carried by the brush body and closing an outlet port to the soap reservoir is operated, a quantity of the shaving cream will be ejected into the bristles of the brush by means of a spring pressed follower within the soap reservoir.

Another object of the invention is to provide a cap closing an end upon the brush handle and having connected therewith one end of the spring for exerting pressure upon a follower within the soap reservoir, said cap being adjustably connected with the handle to enable the pressure of the spring upon the follower to be increased or decreased as desired.

Another object of the invention is to provide the adjustable cap on the brush handle with a member mounted to turn therein and by means of which the brush may be attached to a support, said member having a ball and socket connection with one end of the spring which exerts pressure upon the follower, so that the cap may be adjusted upon the handle without imparting turning movement to the spring.

A still further object of the invention is to provide a construction for a brush of the class described in which all parts thereof are so constructed that they may be disconnected and thoroughly cleaned when the occasion requires.

With these and other objects in view, the invention resides in the novel combination and arrangement of parts, which will be hereinafter described and particularly pointed out in the claim.

The preferred embodiment of the invention has been illustrated in the accompanying drawing, although no restriction is necessarily made to the precise details of construction therein shown, as changes, alterations, and modifications within the scope of the claim may be resorted to when desired.

Like characters of reference denote corresponding parts throughout the several views in the drawing, in which:

Figure 1 is a front elevation of a shaving brush constructed in accordance with the invention.

Fig. 2 is a vertical transverse sectional view therethrough

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

Fig. 4 is an enlarged fragmentary sectional view through the top of the cap on the brush handle to more clearly illustrate the connection between the spring for exerting pressure on the follower in the soap reservoir and the cap.

Referring now to the drawing in detail, the numeral 1 designates the brush body which may be formed from hard rubber or the like although in this instance the brush body has been shown constructed from metal.

The brush body 1 is provided in its bottom face with a circular recess 2 from the bottom wall of which depends a centrally arranged tapering extension 3, said extension having a longitudinally extending passage 4 therein opening out at its upper end into a recess 5 in the upper face of the body 1.

The bottom wall of the recess 5 is inclined while the peripheral wall of said recess is threaded, as designated by the numeral 6 throughout its height.

The body 1 has extending transversely therein an elongated slot 7 which intersects the longitudinally extending passage 4 in the extension 3 and has an enlarged portion 8 providing a chamber 9 near one end, the peripheral wall of said enlarged portion being threaded, as indicated by the numeral 10.

A slide valve 11 is disposed in the slot 7 and is provided near one end with a transversely extending opening 12, said valve having a reduced portion extending within the chamber 9 and receiving thereon a coil spring 13, one end of which bears against an end wall of the chamber 9, while the other end contacts with a button 14 on the reduced portion of the slide valve. The button passes through an opening in a casing 15, threadedly engaged with the threads 10 on the peripheral wall of the chamber 9. Through the above described arrangement of the spring and button with relation to the slide

valve, it will be noted that the spring 13 normally exerts an influence upon the slide valve to hold the opening 12 therein out of registration with the passage 4 in the body 3.

Bristles 16 are secured within the recess 2 in any suitable manner and are arranged to surround the extension 3 throughout its length.

A tubular soap reservoir 17 is threaded for a portion of its length, as indicated by the numeral 18 near one end and has its opposite end flared as designated by the numeral 19, said threaded end being received in the recess 5 and secured thereto by means of the threads 6.

A hollow handle 20 is tapered for a portion of its length to provide a reduced end to be engaged with the threads 18 on the soap reservoir 17 above the body 1, the larger end of the handle being closed by the flared end of the soap reservoir, while the cylindrical portion of the handle 20 at its larger end is exteriorly threaded as at 21 throughout its length.

A cap 22 for closing the enlarged end of the handle 20 has a peripheral flange 23 interiorly threaded for engagement with the threads 21 on the brush handle, said cap being provided with an opening 24 in which is mounted the stem 25 of a socket member 26. The end of the stem 25 which extends above the top of the cap 22 is threaded to receive a head 27 in which is mounted a ring 28 by means of which the brush may be connected with a support.

A follower 29 is positioned within the soap reservoir 17 and has connected therewith one end of a coiled expansion spring 30, the other end of which is provided with a ball 31 received in the socket 26 on the stem 25 in the cap 22.

When it is desired to fill the soap reservoir 17. Shaving cream, or liquid soap may now threaded end of the handle 20 and the follower 29 removed from the soap reservoir 17. Shaving cream or liquid soap may now be poured into the tubular portion of the soap reservoir with the flared portion 19 of the reservoir assisting in directing the soap into the reservoir, the follower may now be replaced within the soap reservoir and the cap 22 connected with the threaded end of the handle.

The brush is now ready for use and when the bristles have been moistened with water, pressure upon the button 14 will operate the slide valve 11 and to allow a portion of the soap to be expelled from the reservoir 17 through the extension 3 and into the bristles of the brush by means of the spring pressed follower 29.

When a considerable quantity of soap has been removed in this manner from the soap reservoir it may be found necessary to increase the pressure exerted upon the follower by the spring 30 and to accomplish this result, it is only necessary to adjust the cap 22 on the threaded end of the handle 20, it being noted that when the cap is turned, the spring and follower are prevented from turning through the connection of the spring with the stem 25.

From the foregoing statements, taken in connection with the accompanying drawing, it is at once apparent that a fountain shaving brush has been provided which is simple in construction, therefore inexpensive of manufacture, yet highly efficient in use.

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

A brush of the class described comprising a body, a handle having an open end, a soap reservoir received within the handle and connected therewith and with the body, a flared end on the soap reservoir closing the open end of the handle, a follower within the soap reservoir, a cap threadedly engaged with the handle and closing the flared end of the soap reservoir, a stem mounted to turn in said cap and provided with a socket, and a spring within the soap reservoir having one end connected with the follower and its other end provided with a ball received in said socket.

In testimony whereof I affix my signature in presence of two witnesses.

REUBEN W. SMITH.

Witnesses:
F. A. CUNNINGHAM,
ELLEN SMITH.