Nov. 24, 1925. 1,563,031

A. G. JONES

SHAVING AND COSMETIC BRUSH

Filed Dec. 5, 1924

Fig. 1

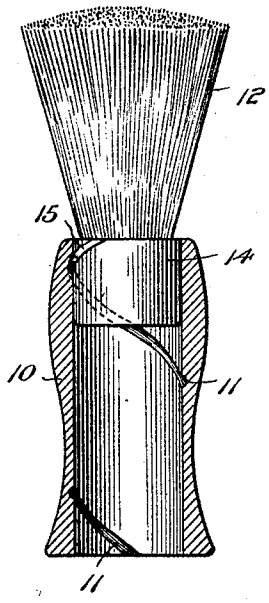


Fig. 2

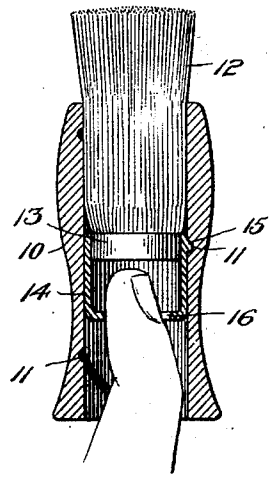


Fig. 5

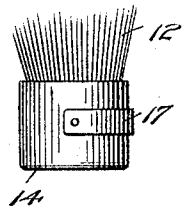


Fig. 3

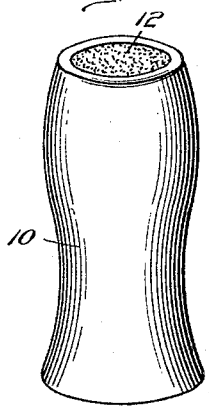


Fig. 4

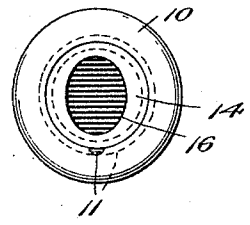
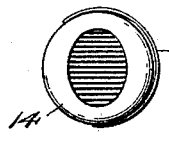


Fig. 6



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UNITED STATES PATENT OFFICE.

ARCHER G. JONES, OF RICHMOND, VIRGINIA.

SHAVING AND COSMETIC BRUSH.

Application filed December 5, 1924. Serial No. 754,086.

To all whom it may concern:

Be it known that I, ARCHER G. JONES, a citizen of the United States, residing at Richmond, in the State of Virginia, have invented certain new and useful Improvements in Shaving and Cosmetic Brushes; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification.

My invention relates to improvements in shaving and cosmetic brushes, and like articles, particularly to shaving and cosmetic brushes of the collapsible or telescoping type, whereby the bristles of such brushes may be expanded or constricted at the tips by partly or wholly projecting or retracting them out of or into the hollow handle of the brush, the degree of expansion or constriction being determined by the extent of the projection of the bristles beyond the end of the handle of the brush, or by their retraction within the handle, as adjustably provided for.

One object of my invention is to provide a brush which may be made of the softest and least abrasive bristles or hairs, so that the sides and bases of the bristles may be used, as in existing types of brushes, to work up the lather or spread on the cosmetic, and the tips of the bristles of the same brush then be used for rubbing the lather into the beard, or, without irritation, for working the cosmetic into and cleansing the pores of the skin. Another object of the invention is to provide a brush having a hollow handle open at each end within which is mounted a bristle carrying member to move longitudinally therein, the bristle carrying member being adapted to be grasped by the finger of the user inserted through the end of the handle to effect this movement.

With the present brush the bristles may be easily and gently moved into or out of the handle with one hand by the user even while the brush is in use.

In this brush the bristles may be entirely removed from the handle without difficulty, cleansed and wholly or partially dried, and then may be replaced in the handle and entirely retracted into the handle to prevent contact with clothing or dirt; and since the handle is not closed when the bristles are so retracted, the bristles are kept ventilated by contact with the air and yet are kept relatively free from dust and germs.

In the accompanying drawing,

Figure 1 is a view illustrating the present invention with the bristles loose at the tips by reason of being fully projected from the handle, the handle being shown in section and the bristles and their carrying member being shown in elevation.

Figure 2 is a similar view with the bristles partially retracted to constrict the bristles at the tips and prevent them from spreading, this view also illustrating the user's finger in the apertured cap on the bristle carrying member for constricting or expanding the bristles at their tips by moving the bristles in or out.

Figure 3 is a perspective view illustrating the end of the handle through which the bristles are projected and retracted; and

Figure 4 is an end view illustrating the opposite end of the handle.

Figures 5 and 6 are side and vertical views of the apertured cap (which holds the bristle base) with friction spring—when the helical groove is not used.

In the present invention the hollow handle, 10, is preferably of tubular form, both the ends being open. The exterior surface of the handle may be shaped according to the producer's wishes, but the interior surface of the handle is formed preferably with a helical groove, 11, extending from one end of the cylinder to the other at such a pitch that the bristles will remain in any of the adjusted positions while in use; or the bristle carrier may be held firmly in any desired position in the handle by the binding action of a friction spring 17 made as a part of the bristle carrier, as in Figures 5 and 6. When the friction spring 17 is used, the groove 11 may or may not be retained, as desired.

The bristles constituting the brush are secured by any suitable means in a carrier or head, preferably of less diameter than that of the bore of the handle, whereby a cap, 14, may be attached to said carrier. The cap, 14, preferably has a curved rib, 15, thereon, adapted to engage in the groove, 11, whereby relative rotation of the handle and carrier cap in opposite directions will effect a relative longitudinal movement of the bristles within or beyond the end of the handle; or

the bore of the handle may be made without the helical groove, and for the curved rib on the carrier may be substituted a friction spring attached to the carrier (Figures 5 and 6) which, by its binding action on the surface of the bore of the handle, will tend to hold the bristle cap at whatever position to which it may be forced either up or down in the handle of the brush.

The bristles can be adjusted beyond the end of the handle to any desired extent, depending upon the stiffness or softness it is desired the brush shall have and the pitch of groove 11 is such that the bristles will remain in any of the adjusted positions while in use. In addition to the nicety of adjustment that may be secured with this helical groove arrangement, another advantage thereof is that the reverse rotation of the cap and bristles necessary to retract the bristles tends to straighten out any twisted bristles. With very soft bristle brushes, the bristles tend to become tangled when used, but reverse rotation of the cap wipes the bristles diagonally, so to speak, of the end of the handle and causes them to disentangle. This is not true where the bristles are retracted in the handle by a straight movement longitudinally of the handle.

To facilitate rotating the handle and bristle cap to move the bristles in and out of the handle, the cap 14 is hollow and has an orifice 16 therein, said orifice preferably being elliptical in shape whereby one's finger may readily be inserted therein to grasp the cap and hold the cap bristles while the handle is being revolved to project or retract the bristles. The combined length of the capped bristle carrier and the bristles is substantially equal to or a little less than the length of the handle and as the groove 11 extends the entire length of the handle, the bristles can be retracted to a point where they will be wholly contained within the handle when the brush is not in use. This prevents dust or other foreign matter collecting in the brush, particularly around the base and intermediate portions of the bristles, making the brush a highly sanitary one.

With a brush such as described it is possible for the user to project or retract the bristles as he may desire into or out of the handle by inserting a finger in one end of the handle and grasp the bristle carrying member while with the other fingers of the hand he can manipulate the handle. So too by having the handle open at each end the bristle carrying member may be inserted in either end of the handle.

What I claim is:

1. In a device of the kind described, a hollow handle, a bristle carrying member mounted in the handle and cooperative elements on said handle and said bristle carrying member for moving the latter into and out of the handle upon relative rotative movement of the handle and bristle carrying member, said handle being open at each end whereby the bristle carrying member may be engaged by the finger of the user to effect relative rotative movement of said parts.

2. In a device of the kind described, a hollow handle screw threaded on the interior surface, a bristle carrying member within the handle having a projection cooperating with the thread on the handle whereby relative rotative movement of the handle and bristle carrying member will move the latter in and out of the handle said handle being open at each end whereby the bristle carrying member within the handle may be engaged by the finger of the user to effect the relative rotative movement of the parts.

3. In a device of the kind described, a hollow handle open at each end, a bristle carrying member movable longitudinally in the handle, cooperating elements on the bristle carrying member and handle for moving the bristles into and out of the handle upon relative rotative movement of the handle and bristle carrying member, and means carried by said bristle carrying member adapted to be grasped by a finger of the user inserted through the end of the handle, whereby said bristle carrying member may be held and the handle rotated relative thereto by one hand of the user to effect the projection or retraction of the bristles.

4. In a device of the kind described, a hollow handle open at each end, a bristle carrying member mounted in the handle, cooperating elements on the handle and bristle carrying member for moving the bristles into and out of the hollow handle upon relative rotative movement of the handle and bristle carrying member, a hollow cap fitted to said bristle carrying member provided with an opening into which a finger of the user may be inserted through the end of the handle, whereby said bristle carrying member may be held and the handle rotated relative thereto by the one hand of the user.

5. In a shaving brush or the like, a hollow handle having a spiral groove therein, a bristle carrying member movable longitudinally within the handle to move the bristles carried thereby into or out of the handle, a hollow metallic cap on said member having an orifice therein exposed at one end of the handle to facilitate movement of the bristle carrying member, and a rib on said cap engaging in said groove to move the bristles in and out of the handle.

6. In a device of the kind described, a hollow handle open at each end, a bristle carrying member movable longitudinally therein, means carried by said bristle carrying member adapted to be grasped by a

finger of the user inserted through the end of the handle, whereby said bristle carrying member may be moved in said handle to project or retract the bristles.

7. In a device of the kind described, a hollow handle open at each end, a bristle carrying member, hollow at one end, and movable longitudinally in the hollow handle by means of a finger of the user inserted in the hollow bristle carrying member through the open end of the handle opposite the bristles.

ARCHER G. JONES.