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SHAVING BRUSH

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2 Sheets-Sheet 1

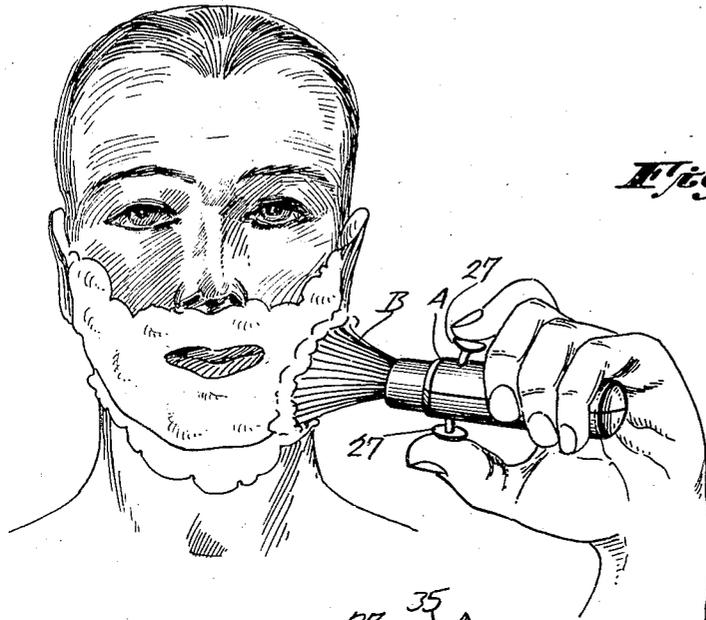


Fig. 1.

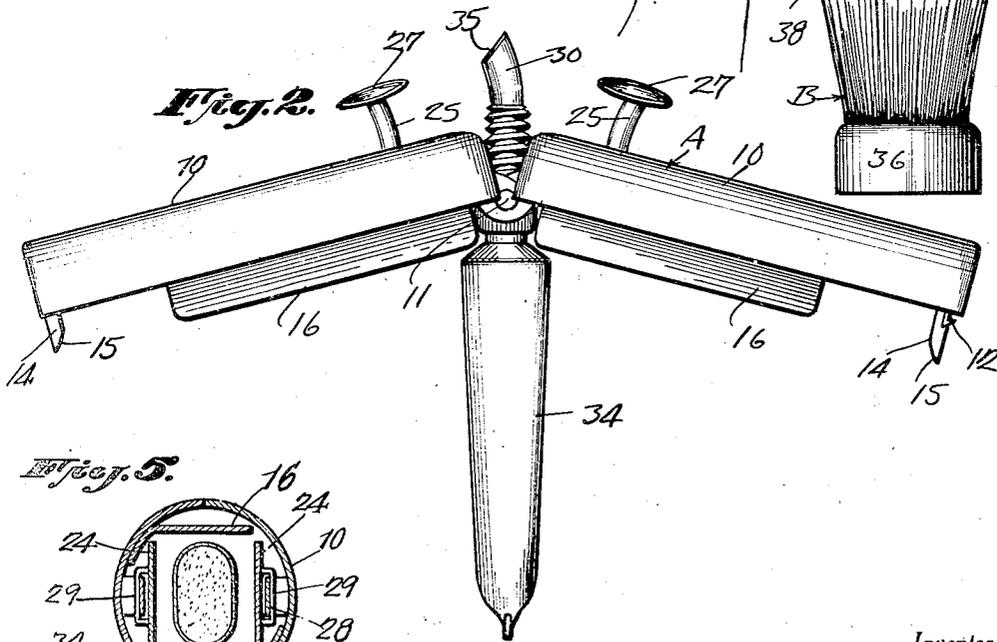


Fig. 2.

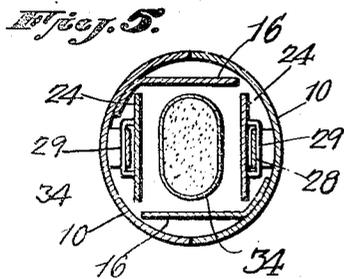


Fig. 3.

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SHAVING BRUSH

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This invention relates to improvements in shaving brushes and more particularly to a brush of the self soaping type.

The primary object of the invention resides in a shaving brush in which a collapsible tube of shaving cream may be stored in the handle, and the contents fed to the bristles of the brush by manipulating means provided on the handle whereby only the required amount of soap needed is used to lather the face to be shaved, as the discharge of the soap may be effectively controlled during the lathering operation.

Another object of the invention is to provide a shaving brush of the kind above mentioned which may be quickly and easily opened to facilitate the quick and easy removal of a used tube from the handle and the insertion of a fresh tube therein.

A further object is the provision of a shaving brush having a hollow handle for accommodating a collapsible tube of shaving cream, and tube squeezing means operable exteriorly of the handle by which the tube may be completely flattened to assure the dispensing of the full contents thereof upon the bristles of the brush.

A still further object is to provide a shaving brush having the foregoing characteristics which is simple of construction, inexpensive of manufacture, and in which the parts are accessible for cleaning purposes to maintain the brush in a sanitary condition at all times.

With these and other objects in view, the invention resides in the certain novel construction, combination and arrangement of parts, the essential features of which are hereinafter fully described, are particularly pointed out in the appended claims, are illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view illustrating my invention in use.

Figure 2 is a side elevational view showing the brush section removed and the handle section in an open or extended position.

Figure 2a is a detail side elevational view of the brush section.

Figure 3 is an enlarged vertical longitudinal

sectional view through the brush showing the parts in normal position in full lines, and in operative position in dotted lines.

Figure 4 is a vertical transverse sectional view taken on the line 4—4 of Figure 3.

Figure 5 is a horizontal sectional view taken on the line 5—5 of Figure 3.

Referring to the drawings by reference characters the character A designates the handle section of my improved shaving brush, and B the removable brush section, the purpose of having these two sections separable being to permit of the substitution of a new brush section for a worn one and for permitting thorough cleaning of the parts to maintain the brush in a highly sanitary condition at all times.

The handle section A includes a pair of handle sections 10—10 which are substantially semi-circular in cross section, as best seen in Figure 5 of the drawings, so that when the two sections are brought together, they provide a hollow tubular casing which may be round or oval in cross section if desired. One of the ends of the sections 10—10 are open and which ends are pivotally connected together as at 11, while the opposite closed ends of the handle sections are provided with coacting elements by which the sections may be held in a closed position. In the drawings I have shown a spring catch carried by the end wall of one of the sections for engaging with a shoulder 13 provided on the inner side of the bottom wall of the other section. Inwardly extending fingers 14 extend from the bottom walls of the two sections and are provided with rounded ends or noses 15 for a purpose to be presently explained. The finger 14 on one of the sections 10 moves into engagement with the bottom of the opposite section, and vice versa.

Extending inwardly from each handle section 10 is a wall 16 formed integral or attached to the interior of the respective sections and which wall extends beyond the plane of the longitudinal side edges of the section. The wall of one section 10 is disposed out of alinement or offset with respect to the walls 16 of the other section to accommodate a collapsible tube therebetween when

the handle sections 10—10 are in a closed position as best seen in Figures 3 and 4.

Fixedly secured to the closed end wall of each handle section 10 is a flat spring 17, the same being bent upon itself to provide a tongue 18 disposed substantially parallel to the end wall while the terminal end of the spring is bowed and is in constant engagement with the inwardly bent end of a supporting bracket 19. The other end of the bracket 19 is bent so as to be disposed parallel to the side wall of the handle section and is slidable in a pocket 20 provided on the inner wall of the said section. Pins 21 extend from each section 10 and are disposed in slots 22 provided in spaced ears 23 extending outwardly from the lower end of a squeezing jaw 24. The jaw 24 is of flat material and is disposed at right angles to the wall 16 of the handle section to which the jaw is connected. By loosely connecting one end of the jaw 24 in the manner described, the spring 23 acting upon the bracket 19 will tend to force the said end of the jaw outwardly after a collapsible tube has been inserted into the hollow handle and the handle section moved to a closed position as the rounded ends 15 of the fingers 14 serve to place the required tension upon the springs 23 as the said fingers ride therebeneath. Carried by the opposite end of the jaw 24 is a manipulating member which includes a shank 25 extending outward through an opening 26 in the handle section 10, while the outer end of the said shank terminates in a button or head 27.

Fixed to the inner side of each handle section 10 is one end of a flat spring 28, while the opposite end of the spring bears against the jaw 24 and is slidably connected thereto by passing the free end of the spring through an eye 29 carried by the said jaw. By connecting the free end of the spring in this manner, the spring is permitted to slide relative to the jaw as is necessary when the jaw is moved from one position to another.

Formed integral with and extending beyond the open end of the hollow handle is a discharge tube 30, the inner end of which is enlarged to provide a head 31 internally screw threaded as at 32 for receiving the threaded discharge end 33 of a collapsible tube 34. The outer end of the discharge tube 30 is slightly curved and is closed by a flap valve 35, which tends to normally close the outlet end of the tube so as to maintain the shaving cream or other like paste in a sanitary condition. The valve 35 automatically opens due to the pressure behind the cream to be dispensed, and therefore does not interfere with the free flow of the cream. The brush section B hereinbefore mentioned includes a cup back 36, the inner peripheral edge of which is beveled for seating engage-

ment upon the inwardly beveled walls of the open end of the hollow handle as best seen in Figure 3 of the drawings. Extending beyond the open side of the brush back and formed integral therewith is a sleeve 37, the lower end of which is internally screw threaded to receive the threaded portion of the discharge tube 30. By screwing the brush section to the handle section so that the brush back 36 seats against the open ends of the handle section, the said handle sections are prevented from outward swinging even though the catch 12 is released, but by slightly unscrewing the brush section from the handle section and actuating the catch, the handle sections 10—10 may be swung to the open position shown in Figure 2 of the drawings. When in such position, the tube may be inserted or removed from the brush as desired.

Assuming that the parts of the brush are in the position shown in full lines in Figure 3 of the drawings, and it is desired to dispense a quantity of the shaving cream from the tube 34. The operator proceeds to moisten the bristles 38 of the brush which are set in the brush head 36 and into which the discharge tube extends, after which the manipulating buttons or heads 27 are grasped in the manner shown in Figure 1. By exerting inward pressure upon these buttons, the jaws 24 are compressed inwardly toward each other against the action of the springs 28 and the pressure exerted thereby causes the shaving cream or contents of the tube to be discharged or squeezed through the discharge end of the tube, it being understood that the flap valve 35 automatically opens under this pressure. In working the moistened brush over the face to be shaved a lather is produced and if additional shaving cream is needed, the actuating heads or buttons 27 may again be compressed. After a shaving operation, the bristle sections of the brush may be thoroughly cleaned by washing so as to maintain the brush in a sanitary condition. The walls 16 hereinbefore mentioned serve to prevent or confine the spreading of the walls of the tube during a squeezing operation, and by reason of the construction of the jaws 24, the tube may be completely flattened so as to effect discharge of the entire contents of the tube before replacing the same with a fresh one.

While I have shown and described what I deem to be the most desirable embodiment of my invention, I wish it to be understood that various changes in construction may be resorted to if desired, and I do not wish to limit myself to the exact details of construction herein set forth and described, nor to anything less than the whole of my invention limited only by the appended claims.

Having thus described the invention, what I

I claim as new and desire to secure by Letters Patent is:—

1. A shaving brush comprising a hollow handle consisting of two hingedly connecting handle sections, a threaded discharge tube extending from one end of said hollow handle, catch means for holding said handle sections against swinging movement, means for suspending a collapsible tube within said hollow handle, a brush section detachably connected to said hollow handle, said discharge tube extending into the bristle portion of said brush section, and tube squeezing means carried by each of the said hingedly connected handle sections, said tube squeezing means including a jaw having one end loosely connected to the tube section, a spring acting upon said jaw to move the free end of the same in a direction toward the handle section, and a manipulating member carried by said jaw and extending through an opening in said handle section, by which said jaw may be moved inwardly against the action of said spring.

2. In a shaving brush of the class described, a hollow handle, means by which the handle may be opened to facilitate the insertion of a collapsible tube therein, oppositely disposed jaws within said handle, means acting upon one end of said jaws for moving the said ends toward each other, spring means acting upon the opposite ends of said jaws for urging said ends away from each other, said jaws adapted to be disposed on opposite sides of a collapsible tube adapted to be placed within said hollow handle, and manipulating means carried by said jaws and extending exteriorly at opposite sides of said hollow handle by which the spread ends of said jaws may be moved toward each other.

3. In a shaving brush of the class described, a hollow handle, means by which the handle may be opened to facilitate the insertion of a collapsible tube therein, oppositely disposed jaws within said handle, means acting upon one end of said jaws for moving the said ends toward each other, spring means acting upon the opposite ends of said jaws for urging said ends away from each other, said jaws adapted to be disposed on opposite sides of a collapsible tube adapted to be placed within said hollow handle, and manipulating means carried by said jaws and extending exteriorly at opposite sides of said hollow handle by which the spread ends of said jaws may be moved toward each other, and walls fixedly carried by said hollow handle and extending inwardly thereof at right angles to said jaws and respectively disposed on opposite sides thereof to prevent outward spreading of a collapsible tube when squeezed by said jaws.

4. In a device of the class described, a hollow casing having a discharge outlet to which the discharge end of a collapsible tube is adapted to be connected, a pair of jaws hav-

ing one of their ends loosely connected to the walls of said casing, means normally holding said jaws in V-shaped position and between which a collapsible tube is adapted to be positioned, and manipulating means carried by said jaws and extending exteriorly on opposite sides of said casing whereby said jaws may be manually moved in a direction toward each other.

5. In a device of the class described, a hollow casing having a discharge outlet to which the discharge end of a collapsible tube is adapted to be connected, a pair of jaws having one of their ends loosely connected to the walls of said casing, means normally holding said jaws in V-shaped position and between which a collapsible tube is adapted to be positioned, and manipulating means carried by said jaws and extending exteriorly on opposite sides of said casing whereby said jaws may be manually moved in a direction toward each other, a brush section threaded to said discharge tube, the discharge tube extending into the bristle portions of said brush section.

6. In a device of the class described, a hollow casing having a discharge outlet to which the discharge end of a collapsible tube is adapted to be connected, a pair of jaws having one of their ends loosely connected to the walls of said casing, means normally holding said jaws in V-shaped position and between which a collapsible tube is adapted to be positioned, and manipulating elements carried by said jaws and extending exteriorly on opposite sides of said casing whereby said jaws may be manually moved in a direction toward each other, a brush section threaded to said discharge tube, the discharge tube extending into the bristle portions of said brush section, and a spring actuated flap valve closing the discharge end of said discharge tube.

In testimony whereof I affix my signature.
RUDOLF SKVORECZ.

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