March 2, 1937. F. H. FITCH 2,072,620

SHAVING BRUSH

Filed Feb. 19, 1936

Fig. 1.

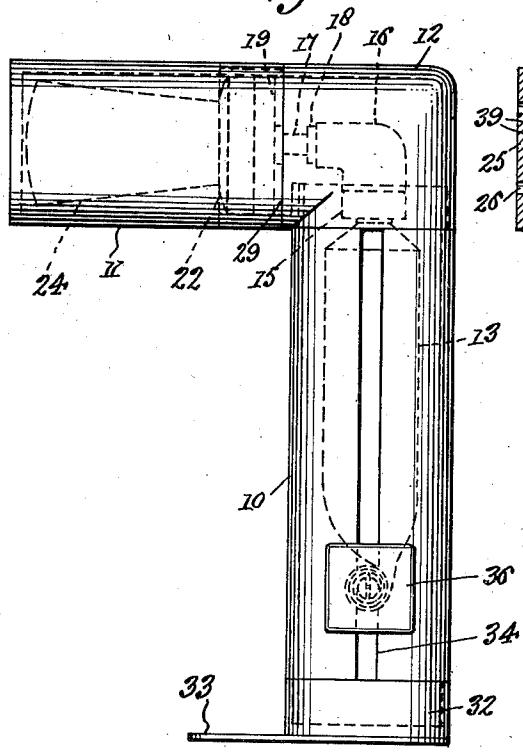


Fig. 2.

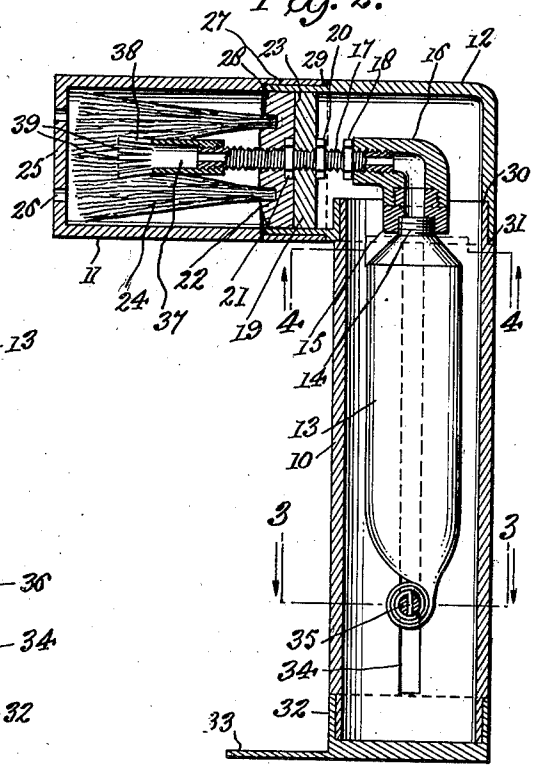


Fig. 3.

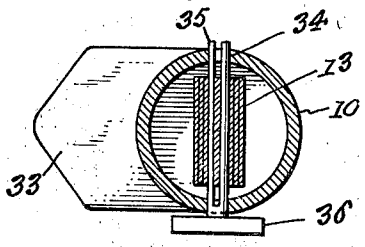


Fig. 4.

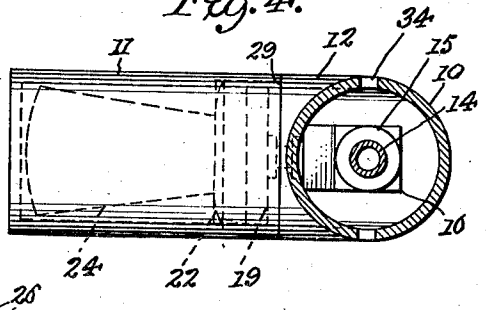


Fig. 6.

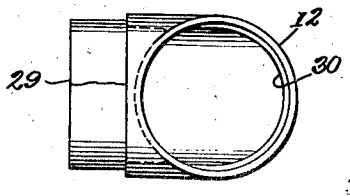
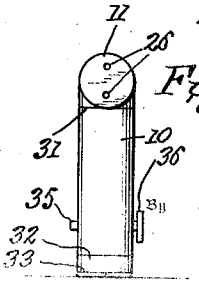


Fig. 5.



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2,072,620

SHAVING BRUSH

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4 Claims. (Cl. 15—135)

The present invention relates to improvements in shaving brushes, and has for an object to provide a brush, such as a shaving or shoe polishing brush, in which the shaving cream, polish or other material is fed to the outer portions of the bristles of the brush to a point where such material will be immediately applicable to the face, surface of the shoe or other surface where such paste, polish or other material is to be exuded in the act of brushing such surface.

Another object of the invention is to provide an improved handy handle shaving brush in which the tube conveying the cream, polishing or other material, while extending to an outward point with respect to the bristles, is so slit and otherwise constructed as to conform to the flexing motion of the bristles whereby to avoid injury to the surface being brushed and to which the material referred to is being applied.

A further object of the invention is to provide an improved handy handle shaving brush in which provision is made for receiving collapsible containers of various sizes and shapes having threads of different pitch.

A still further object of the invention resides in providing a collapsing arrangement for the container of material which will permit of its ready application to such container, of its efficient operation during the use, and of its ready withdrawal from the container after the contents thereof has been entirely consumed.

Other objects of the invention relate to simplicity in design, compactness in construction, and efficiency in use of the improved handy handle shaving brush, as well as the ability to clean same and maintain the device in a sanitary condition.

With the foregoing and other objects in view, the invention will be more fully described hereinafter, and will be more particularly pointed out in the claims appended hereto.

In the drawing, wherein like symbols refer to like or corresponding parts throughout the several views:

Figure 1 is a side view of an improved handy handle shaving brush constructed according to the present invention.

Figure 2 is a longitudinal section taken through such brush.

Figure 3 is a cross section taken on the line 3—3 of Figure 2.

Figure 4 is a similar view taken on the line 4—4 in Figure 2.

Figure 5 is a front view, on a much reduced scale, of the improved brush, and

Figure 6 is a bottom plan view of the casing removed.

Referring more particularly to the drawing 10 designates the handle of the brush and 11 the removable cover. The handle and cover are both adapted to be joined with a casing 12 which may be in the form of a tube as shown on the drawing, straight or arranged to suit the conditions for which the brush is needed.

Within the handle 10 which is hollow a chamber is afforded for receiving the container 13. This container may be of any suitable form but it is shown to be a collapsible tube such as ordinarily used at the present time for containing tooth paste, shoe polish, paint and other materials susceptible of being applied by means of a brush.

The threaded neck 14 of the container 13 may be screwed in to the lower threaded portion of the adapter member 15, and the latter is threaded externally upon its upper portion to engage one arm of the elbow 16 housed within the casing 12. The other arm of this elbow has screwed thereto one end of the straight pipe section 17, which extends outwardly therefrom into the removable cover 11, and provides a leadway through the elbow and adapter in communication with the threaded end of the container for the passage of paste or other material therein.

The pipe section 17 is externally threaded throughout its length and carries a lock nut 18 to abut against the elbow 16 for holding these members together in said position. A disc 19, which is preferably formed of wood, is carried upon the pipe section 17 between the lock nuts 20 and 21 a short distance removed from the outer end of the casing 12 leading into the cover 11, and with its outer circumferential edge portion tightly engaging the inner wall of the said casing. This disc 19 is secured to the face of the head or base portion 23 and is mounted within the casing to form a removable bearing for supporting the pipe section 17 and the parts attached thereto.

The brush 22 is also mounted upon the pipe section 17 with the top of its head portion 23 cemented or otherwise secured to the face of the disc 19, and with the bristles 24 projecting outwardly into the removable cover 11. The closed end 25 of the cover 11 has the perforations 26 extending therethrough to afford ventilating means for the brush, and the opposite or open end 27 of the same is cut away to form a pocket with the internal shoulder 28. The outer end of the casing 12 is also cut away externally to provide a reduced flanged portion with the exterior

shoulder 29, which is readily inserted into or removed from the pocket formed in the cover when it is desired to either house the brush or to expose the same. The shoulders 28 and 29 limit the movement of the cover upon the casing, and assure that these members are placed in the proper position.

The casing 12 is cut to provide an opening as shown in Figure 6 positioned at right angles to the open end portion of the same, and having a portion of the casing around said opening cut away to form an internal shoulder 30. The handle 10 is cut externally adjacent its upper end to provide a reduced flanged portion with the internal shoulder 31 which is readily inserted through the opening formed in the casing into the proper position where the shoulders 30 and 31 limit the movement of these parts.

The opposite or lower end of the tubular handle 10 may be closed or provided with a cap 32 and connected thereto in the same manner as the cap 11 is slidably attached to the casing 12. This cap has a flat plate 33 projecting outwardly therefrom along its bottom in the direction shown in the drawing, and affords a means for supporting the brush in an upright position.

The handle 10 is traversed by two vertical slots 34, such slots being diametrically opposed. These slots are provided to receive a split key 35 having a button or handle 36 formed thereon to permit its operation.

The other end of the straight pipe section 17 projecting into the removable cover 11 provides a support to attach one end of a rubber or other resilient or flexible tube 37 forming in effect a continuation of the metal pipe section 17. The outer end of the flexible tube 37 will approach close to the outer ends of the bunches of bristles 24 whereby to deliver the material exuded from the tube 37 immediately upon the face or other surface.

Moreover, the flexible tube 37 is slit longitudinally a number of times at spaced circumferential points, such slits being indicated at 38 to provide separated fingers 39, which fingers are narrow and unconfined for elongated distances at both sides, thereby conferring upon such fingers in addition to the normal resiliency inherent in the material in which they are made, a constructional flexibility that enables the outer portion of the tube 37 to partake of the flexible character of the bristles 24 of the brush whereby the brushing action, upon the face as in shaving, or upon other surfaces will not be materially different from that of the ordinary bristles.

In the use of the device a container such as, a tube of shaving cream, after removing its screw cap, is threaded into the adapter member 15 and the latter may be threaded into the elbow 16 which is held upon the pipe section 17 in a fixed position within the casing 12 as shown in Figure 2. The hollow handle 10 is then inserted over the container 13 and put in place. The split key 35 may then be inserted laterally through the slots 34 of the handle, and such split key will be received over the flattened end portion conventional with collapsible containers.

As shown in Figure 3, the key 35 will be of a length to extend through both slots 34 and to take up a bearing upon the walls of both slots, the diameter of the key 35 and the height of the slots 34 being approximately the same whereby to permit free rotation of the key 35 about its own axis and at the same time its progress along the slots 34 as is necessary to follow the contour 13 in its collapsing action as produced by the rotation of the key 35. The key, of course, is manipulated from the outside of the handle by the button member 36.

The material of the tube 13 is squeezed out through the hollow adapter member 15 and the elbow 16 into the rigid tube or pipe 17 and thence to the flexible tube 37 which carries it to the outer part of the brush and deposits such material directly upon the surface that is to receive the same.

The improved device combines in one operation the separate actions of applying the paste and then brushing the same. The waste attendant with the operations as heretofore performed separately is now removed as the key 35 may be advanced only as the actual material is needed at the bristle points.

The rubber tube 37 will protect the face from injury while also guiding the shaving cream down near the end of the brush. The two slots 34 make it possible to insert and to operate the key 35 from either side of the handle as desired. The handle slides into the brush holder or casing 12 and is rotatable therein to admit of adjusting the handle so that the key slots 34 may always be in line with the bottom flat end of the shaving cream container 13, whereby the key 35 may be inserted without difficulty. It will be noted that these key slots 34 extend all the way up to the casing 12 and permit the key to press all of the material out of the container 13. The key 35, as shown in Figure 3, is open at its left end permitting it to straddle the flat end of the cream tube 13 when inserted from either side. When the key is rolled around it will force out the cream from the tube 13.

When the material is exhausted from the container 13, that is when the key 35 has been fully rolled up to the ends of the slots 34, such split key can be pulled out laterally of the handle or lengthwise of itself without requiring the unwinding of the tube. Thereupon the handle 10 is free to be removed and the exhausted container 13 may be unscrewed with the adapter 15 from the elbow 16 and a new fresh container substituted after the adapter has been properly placed thereon; whereupon the handle 10 and the key are put in place for further use of the device.

It is obvious that various changes and modifications may be made in the details of construction and design of the above specifically described embodiment of this invention without departing from the spirit thereof, such changes and modifications being restricted only by the scope of the following claims.—

What is claimed is:

1. An improved shaving brush comprising an elbow-shaped casing, a disc in the casing, an elbow member in the casing, means for connecting said disc with one end of the elbow member and to hold the same in fixed position within said casing, an adapter member attached to the other end of the elbow, the said elbow and adapter members being hollow, a brush unit fixedly attached to said disc and mounted in one end of said casing with said tubular means extending into the brush, and a collapsible container removably fitted to said adapter member.

2. An improved shaving brush comprising an elbow-shaped casing, a disc therein having a central opening, a pipe section screw threaded externally throughout its length to pass through said opening, means for holding said disc upon said pipe section, a hollow elbow member in said casing fixedly mounted upon one end of the pipe section, an adapter member removably attached

to the elbow, a container removably connected with said adapter member, and a brush unit secured to the other end portion of the pipe section.

3. An improved shaving brush comprising an elbow-shaped casing open at both ends, a disc in the casing near but set back from one end thereof, an elbow member within said casing, a pipe section connected to one end of the elbow member and extending through said disc, a brush unit mounted upon said pipe section and secured to said disc, an adapter member attached to the other arm of said elbow member, a container connected with said adapter member to project outwardly beyond the casing, and a tubular handle extending about said container and having an end portion fitting snugly and rotatively within the adjacent end portion of said casing.

4. An improved shaving brush comprising an elbow shaped casing, a hollow elbow therein, a disc fitted in one end portion of said casing and set back from the end thereof, a brush back fitted into the same end of said casing and affixed to said disc, bristles carried by said brush back and extending outwardly from said end portion of said casing, said disc and brush back having registering openings therethrough, an externally threaded tube having one end removably threaded into one end of said elbow, said tube passing through the openings in said disc and brush back and extending into the bristles of the brush, means threaded on said tube for binding upon opposite sides of said disc to locate the tube axially with respect to the disc, an adapter removably connected with the other end of said elbow, a container removably connected with said adapter, a handle removably fitted to said casing for enclosing said container, and means guided by and extending through said handle for collapsing the container.

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