A. R. VORE.

SHAVING BRUSH.

APPLICATION FILED MAY 20, 1916.

1,220,033. Patented Mar. 20, 1917.

Fig. 1.

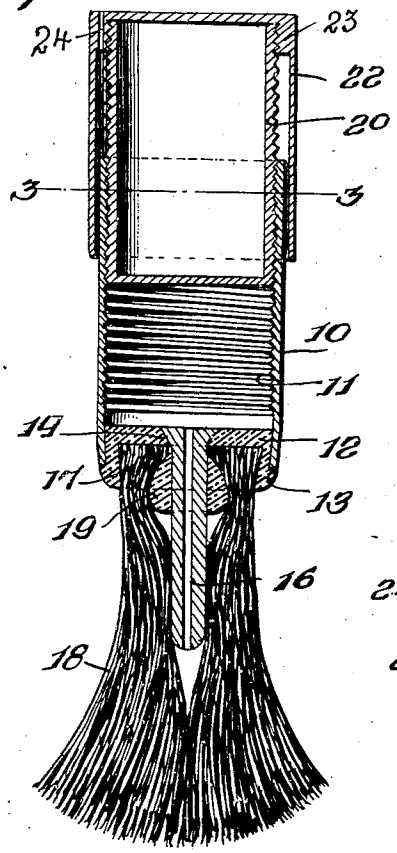


Fig. 2.

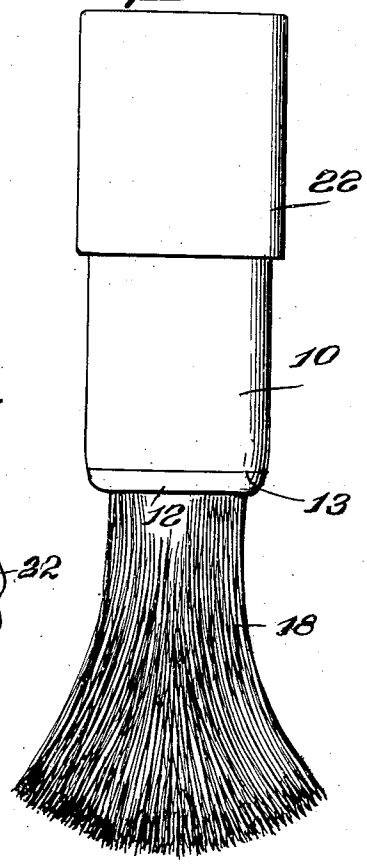


Fig. 5.

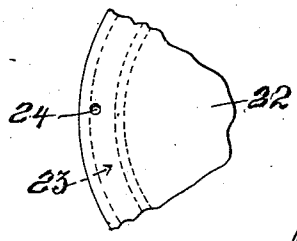


Fig. 3.

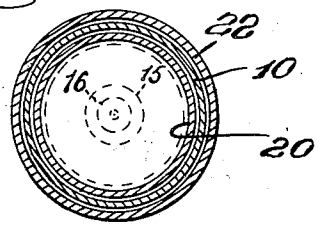
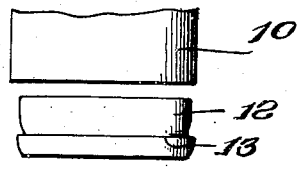


Fig. 4.



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SHAVING-BRUSH.

1,220,033. Specification of Letters Patent. Patented Mar. 20, 1917.

Application filed May 20, 1916. Serial No. 98,814.

To all whom it may concern:

Be it known that I, ARTHUR R. VORE, a citizen of the United States, residing at Carraway, in the county of Putnam and State of Florida, have invented certain new and useful Improvements in Shaving-Brushes, of which the following is a specification.

This invention relates to brushes, more particularly to the class of shaving brushes wherein provision is made for introducing a soap compound within the brush from a reservoir or supply in the handle, and has for one of its objects to improve the construction and increase the efficiency and utility of devices of this character.

With these and other objects in view, the invention consists in certain novel features of construction, as hereinafter shown and described and then specifically pointed out in the claims; and in the drawings illustrative of the preferred embodiment of the invention—

Figure 1 is a vertical sectional elevation of the improved device;

Fig. 2 is a side elevation of the same;

Fig. 3 is a section on the line 3—3 of Fig. 1;

Fig. 4 is a side elevation of a portion of the tubular reservoir and the brush receiving plug before being united;

Fig. 5 is an enlarged detail illustrating the construction of the vent between the plunger and the guard.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The improved device comprises a cylindrical reservoir represented as a whole at 10 and with the major portion internally threaded, as shown in Fig. 1. Engaging in the unthreaded end of the receptacle 10 is a hollow downwardly opening plug 12 with a shoulder 13 encircling the same near the lower end with the outer wall of the plug contracted slightly at its juncture with the shoulder, and the interior of the plug enlarging gradually toward the inner or apertured end. Formed in the closed inner end of the plug is an opening having downwardly and inwardly sloping sides and indicated at 14, to receive the enlarged tapering end 15 of a flexible nozzle device 16 and in which it is cemented. By this means the nozzle device is held from displacement in one direction relative to the plug and projects at its lower end for a considerable distance below the lower end of the plug, as shown in Fig. 1. The hollow plug is designed to receive the butt ends 17 of the bristles 18 which constitute the brush. After the bristles have been introduced into the plug a tapered sleeve 19 is disposed over the nozzle 16 and forced toward the terminal 15 of the nozzle and thus compresses the bristles against the sloping walls of the hollow plug. The bristles will be cemented in the usual manner within the plug and the sleeve 19 will be forced into position before the cement has become "set". After the plug containing the bristles and the other attachments has been inserted within the lower end of the receptacle 10 the material of the receptacle is compressed by a suitable implement into the contracted portion of the plug, as indicated in Fig. 1, to firmly bind the plug to the receptacle and locking the plug within the receptacle.

An externally threaded plunger, indicated as a whole at 20, engages the threads of the receptacle 10, and is thereby movable within the receptacle when rotated. The plunger is preferably hollow to reduce the weight, and the members 10—20 are preferably of metal as thin as possible consistent with the strains to which they will be subjected.

Bearing over the outer end of the plunger 20 is a guard shell 22 closed at the upper end, as shown in Fig. 1, and enlarged internally at the juncture of the walls of the shell and its top in the form of a ring 23 and the inner face of the ring threaded to engage the outer threads of the plunger 20. The guard shell 22 is somewhat larger than the receptacle 10 and engages constantly over the latter, as illustrated in Fig. 1. The ring portion 23 is provided at suitable intervals with one or more orifices 24, as shown in Fig. 5, to form vents to the space between the members 20 and 22 to prevent the formation of compressed air in event of the member 22 fitting too closely against the outer walls of the receptacle 10 and likewise to provide means for the escape of any leakage of soap.

The receptacle 10 is designed to contain a supply of soap in relatively soft condition, and when the plunger is actuated by rotating the same, a small quantity of the soap will be forced through the nozzle 10 and into the brush and when water is applied to the brush a lather will be produced in the usual

manner. The shell 22 is shorter than the plunger 20 to facilitate the insertion of the plunger into the reservoir. The shell 22 is removable from the plunger when required, thus exposing the interior of the plunger which may be utilized to receive suitable articles.

The improved device is simple in construction, can be inexpensively manufactured of any required size, and while employed primarily as a shaving brush may be employed for other purposes if required.

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

1. In a shaving brush, a hollow handle, a hollow outwardly opening plug in one end of the handle and having an inwardly flaring aperture, a nozzle having a flaring inner end engaging said flaring aperture, bristles within said plug and surrounding said nozzle, and a conical sleeve engaging over said nozzle and forced to a seat within said bristles.

2. In a shaving brush, a hollow handle, a hollow outwardly opening plug in one end of the handle and having an inwardly flaring aperture, a nozzle having a flaring inner end engaging said flaring aperture, bristles within said plug and surrounding said nozzle, and a conical sleeve engaging over said nozzle and forced to a seat within said bristles, the lower end of said hollow handle being compressed against said plug to compress the same against the bristles and compress the bristles against the sleeve.

In testimony whereof I affix my signature.

ARTHUR R. VORE. [L. S.]