

UNITED STATES PATENT OFFICE.

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BRUSH.

No. 829,540.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, ROBERT H. MCKITTRICK and HENRY E. STERRY, citizens of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented a new and useful Brush, of which the following is a specification.

This invention relates to brushes, and has for its object to provide a brush embodying new and improved features of convenience, utility, simplicity, and efficiency.

A further object of the invention is to provide a brush having improved means for storing soap or like material within a hollow handle and of feeding the material to the brush.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a longitudinal sectional view of the improved brush. Fig. 2 is a transverse sectional view taken on line 2-2 of Fig. 1. Fig. 3 is a longitudinal sectional view of the improved brush, exhibiting a slight modification in the manner of securing the parts within the shell. Fig. 4 is an end view of the shell shown in Fig. 3 with the brush-carrying cap removed.

Like characters of reference indicate corresponding parts in all of the figures of the drawings.

The brush forming the subject-matter of this application comprises a shell 10, cylindrical in form and having at one end a brush 11, carried by a cap or brush-head 12, secured to the shell in any approved manner, as by the screw-threads 13. Disposed axially within the brush is a nozzle 14, the latter being secured to the diaphragm 15 of the cap or brush-head 12 and secured thereto in any approved manner, as by the flange 16. Within the shell is disposed a cylindrical cartridge 17, having a bead 18 formed longitudinally thereof along one side of its inner surface. Within the cartridge is mounted a circular follower 19, having a central screw-threaded opening and a peripheral notch 20, adapted to receive the bead 18 and prevent rotary displacement of the cartridge.

Through the central opening of the follower extends a screw-threaded spindle 21, corresponding in length to the length of the shell.

The spindle is secured at one end to a cap or closure 22, mounted for rotation upon the end of the shell opposite the brush. The cap 22 may be secured upon and the spindle and follower within the shell by the interrupted screw-threads 23 being passed spirally through the interrupted threads 24 and being engaged within the annular groove 25, formed in the inner surface of the shell. Instead of having the cap and casing threaded the spindle may be provided at the end opposite the cap with an annular groove 26 and the cap with a flange 27, disposed within the end of the shell, as shown in Fig. 3. Across the end of the shell opposite the cap 15' is disposed a bifurcated bar 28, the arms forming the slot 29 embracing the groove 26.

It will be understood that the improved brush is adapted for use as a shaving-brush, a shoe-blackening dauber, or wherever soap, blacking, or other material in paste form is used. For transportation and storage the cartridge ends will be closed in any approved manner to prevent drying and deterioration of the paste. When one cartridge has been emptied, it will be discarded and replaced by a charged cartridge. When the rigid cartridge 17 is dispensed with, the pasty material will still be marketed in cartridge form, the cartridges being composed of paper or tin, foil, and the paste removed from the cartridge and dropped into the shell.

Having thus described the invention, what is claimed is—

1. A brush comprising a shell, a brush-head detachably secured to the shell and provided with a perforated diaphragm, a nozzle seated in the perforation of the diaphragm and provided with a laterally-extending flange adapted to engage the diaphragm, said nozzle forming communication between the shell and brush, a cartridge disposed within the shell and having a bead formed upon its inner surface and extending longitudinally thereof, a follower arranged within the cartridge and having a notch for the reception of the bead to prevent rotary displacement of said cartridge, a cap mounted for rotation upon one end of the shell, a threaded spindle carried by the cap and engaged within a threaded opening in the follower, and means for securing the cap and spindle in operative position upon the shell.

2. A brush comprising a shell, a follower

movable within the shell, a cap mounted for rotation upon one end of the shell, a threaded spindle carried by the cap and extending through a threaded opening in the follower and throughout the length of the shell and having an annular groove adjacent the end opposite the cap, and a bifurcated bar extending across the end of the shell and engaging the groove.

3. A brush comprising a cylindrical shell, a nozzle disposed axially of and forming communication between the shell and the brush, a cartridge disposed within the shell and having a bead formed upon its inner face and extending longitudinally thereof, a follower arranged within the cartridge and having a notch in its periphery for the reception of the

bead to thereby prevent rotary displacement of said cartridge, a cap mounted for rotation upon the end of the shell opposite the nozzle, a threaded spindle carried by the cap and extending through a threaded opening in the follower and throughout the length of the shell and having an annular groove adjacent the nozzle, and a bifurcated bar extending across the shell and embracing the groove.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

ROBERT H. MCKITTRICK.
HENRY E. STERRY.

Witnesses:

R. D. McELROY,
R. McELROY.