No. 643,803. Patented Feb. 20, 1900.

W. SCHOTT.

BRUSH.

(Application filed Dec. 30, 1899.)

(No Model.)

FIG. 3.

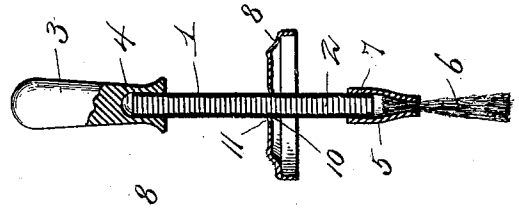


FIG. 5.

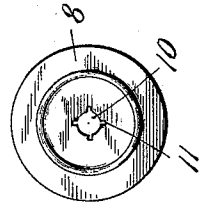


FIG. 2.

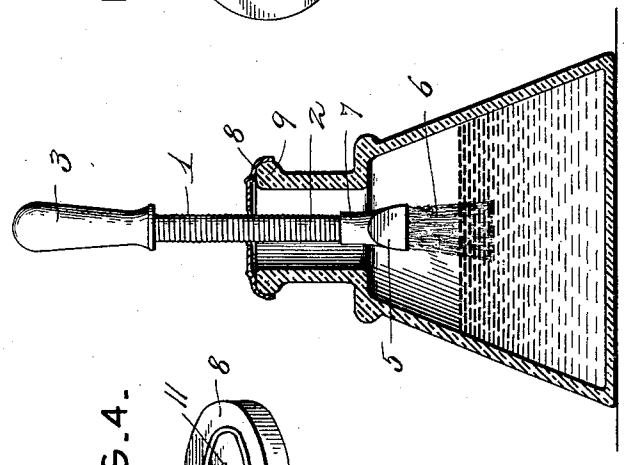


FIG. 4.

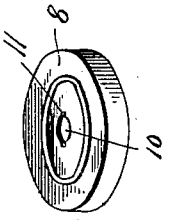
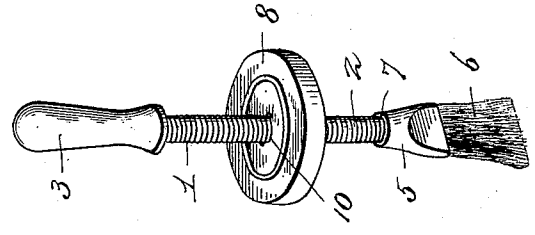


FIG. 1.



Witnesses
Harry L. Ames.
Beyford M. Smith.

Inventor
William Schott.
By W. D. Stockbridge,
Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM SCHOTT, OF NEW YORK, N. Y.

BRUSH.

SPECIFICATION forming part of Letters Patent No. 643,803, dated February 20, 1900.

Application filed December 30, 1899. Serial No. 742,112. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM SCHOTT, a citizen of the United States, residing at New York, (Brooklyn,) in the county of Kings and State of New York, have invented a certain new and useful Brush, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to brushes; and the object in view is to provide, in connection with a brush, a flexible tubular shank so constructed as to have associated therewith a bottle cap or cover which engages the shank and is adjustable up and down thereon. The shank is of uniform diameter throughout, and consists of a coiled spring the coils of which lie in contact with each other and form exterior screw-threads, with which the cap engages and coöperates, so as to enable the brush to be raised or lowered and maintained at any desired elevation for the purpose of rendering it practicable to submerge or insert the bristles of the brush to any desired extent into the liquid contents of the bottle or other receptacle in connection with which the brush is used.

The detailed objects and advantages of the invention will be fully pointed out in the course of the ensuing description.

The invention consists in a brush embodying certain novel features and details of construction and arrangement of parts, as hereinafter fully described, illustrated in the drawings, and incorporated in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a brush complete and equipped with an adjustable cap in accordance with the present invention. Fig. 2 is a vertical sectional view of a receptacle, showing the brush in place therein and the cap resting on the mouth of the receptacle. Fig. 3 is a detail longitudinal section through the brush complete, showing also the cap. Fig. 4 is a detail perspective view of the cap detached. Fig. 5 is a plan view of the cap, showing a slight modification therein.

Similar numerals of reference designate corresponding parts in all the figures of the drawings.

For convenience I have illustrated a brush especially adapted for use in connection with mucilage-bottles, although the brush may with equal advantage be used in connection with other forms and shapes of receptacles adapted to contain either mucilage, glue, or other solutions.

In the drawings, 1 designates the shank of the brush. This shank is in the form of a coiled spring in which the coils 2 lie close together and preferably in actual contact with each other throughout, thereby forming a light tubular shank, while the coils provide the shank with exterior screw-threads, with which the cap, hereinafter described, engages and coöperates. The shank 1 has a uniform diameter from end to end.

In connection with the shank 1 I employ a handle 3, provided in one end with a socket 4, whereby it is adapted to surround, embrace, and fit over a plurality of the terminal coils of the shank at one end thereof. 5 designates a brush-head, in which the bristles 6 are placed and held by crimping or mashing the head, as clearly shown, although the bristles may be combined with the head in any convenient or approved manner. The head 5 also comprises a socket 7, by which it is adapted to embrace and fit over a plurality of terminal coils at the opposite end of the shank from that to which the handle 3 is applied. The handle 3 and brush-head 5 may be fastened to the respective ends of the shank in any convenient manner.

Before assembling the shank, handle, and brush-head a receptacle cap or cover 8 is threaded upon the shank 1. The cap 8 is constructed of sheet metal and is stamped or otherwise formed into shape to fit over and close the neck or mouth of the receptacle, a suitable receptacle being illustrated at 9. The cap 8 is also provided with a central opening 10, and the edge of the cap is swaged, and the oppositely-lying portions of the edge defining the central opening are reversely pitched at an angle corresponding with the angle of the threads formed by the coils of the shank. In this manner a screw-threaded engagement is obtained between the shank and cap, so that they may be relatively adjusted, thereby enabling the brush to be raised or lowered and maintained at the proper height within the receptacle, according to the amount of liquid contained therein. In order to facilitate the swaging of the edge defining the central open-

ing, one, two, or more radial slits 11 may be formed adjacent to the central opening, as illustrated in the drawings, and the portions of the edge between such slits may be swaged or bent at an inclination or pitch corresponding to the pitch of the threads formed by the coils.

From the foregoing description it will be seen that by the construction described not only is a flexible shank provided for the brush, which will render the use of the same more convenient and desirable, but at the same time the coils of the shank, by lying close together, form exterior threads, with which the cap engages, thereby enabling the adjustment above described to be accomplished.

The several parts of the brush hereinabove described may be made in various sizes and are susceptible of changes in the form, proportion, and minor details of construction, which may accordingly be resorted to without departing from the principle or sacrificing any of the advantages of the invention.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. A brush comprising a flexible tubular shank of uniform diameter throughout and consisting of a coiled spring with the coils in contact with each other to form screw-threads, and an adjustable cap surrounding the shank and engaging the threads formed by the coils thereof, substantially as described.

2. A brush comprising a flexible tubular shank of uniform diameter throughout and consisting of a coiled spring with the coils in contact with each other to form screw-threads, and an adjustable sheet-metal cap having an opening for the shank and swaged adjacent to the opening to engage the threads formed by the coils of the shank, substantially as described.

3. A brush comprising a flexible tubular shank of uniform diameter throughout and consisting of a coiled spring with the coils in contact with each other to form screw-threads, an adjustable cap surrounding the shank and engaging the coils thereof, and a handle embracing a plurality of the terminal coils of the shank, substantially as described.

4. A brush comprising a flexible tubular shank of uniform diameter throughout and consisting of a coiled spring with the coils in contact with each other to form screw-threads, an adjustable cap surrounding the shank and engaging the threads formed by the coils, and a brush-head embracing a plurality of the terminal coils of the shank, substantially as described.

5. A brush comprising a flexible tubular shank of uniform diameter throughout and consisting of a coiled spring with the coils in contact with each other to form screw-threads, and an adjustable cap having an opening for the shank and provided with slits adjacent to said opening, the portions of the edge of the cap between said slits being swaged at an angle corresponding with the pitch of the threads formed by the coils of the shank, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM SCHOTT.

Witnesses:

ALEXANDER R. VON OTTENFELD,

WILLIAM WOHLGEMUTH.