No. 860,527. PATENTED JULY 16, 1907.

J. A. COCHRANE.

TOOTH BRUSH.

APPLICATION FILED MAR. 21, 1905.

Fig. 1

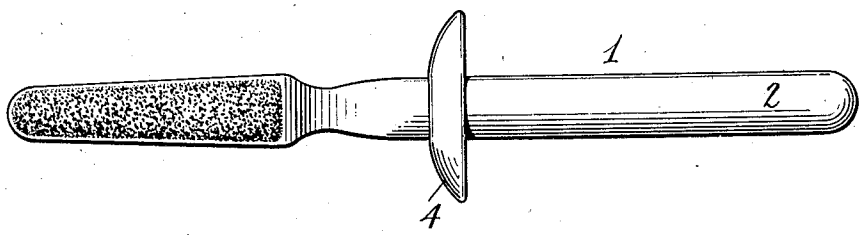


Fig. 2

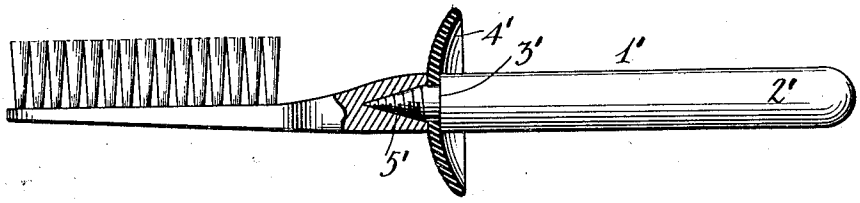
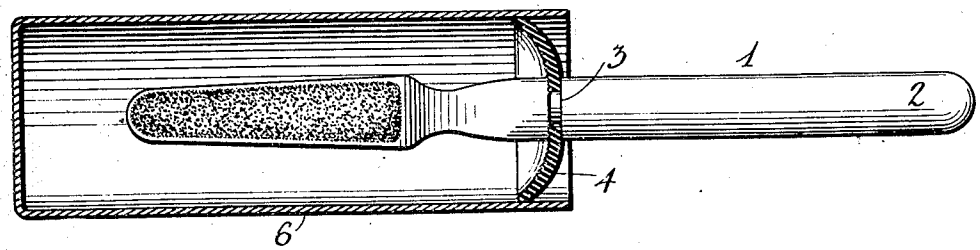


Fig. 3



Witnesses

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TOOTH-BRUSH.

No. 860,527. Specification of Letters Patent. Patented July 16, 1907.

Application filed March 21, 1905. Serial No. 251,344.

To all whom it may concern:

Be it known that I, JAMES ANSON COCHRANE, a citizen of the United States, residing at Cincinnati, in the county of Appanoose and State of Iowa, have invented certain new and useful Improvements in Tooth-Brushes, of which the following is a specification.

One of the principal objects of my invention is to provide a tooth-brush with a concavo-convex disk fitted to the handle to form a liquid-tight connection between said disk and handle, to prevent saliva and dentifrices from soiling the hand of the user and being disagreeable and unsanitary; and another object is to utilize the concavo-convex disk as a stopper for a casing adapted to contain the bristle end of the brush.

To accomplish these objects and to secure other and further advantages in the matters of construction, operation and use, my improvements involve certain new and useful arrangement or combination of parts and details of construction, which will hereinafter be described and then pointed out in the claims at the close of this specification.

In the drawings forming part of this specification,—Figure 1 is a plan view of a tooth brush made in accordance with my present invention. Fig. 2 is a longitudinal sectional view of a slight modification of the same. Fig. 3 is a plan view and partial section of a tooth brush embodying my improvements, showing the casing in which the tooth brush is adapted to be placed.

Referring to the drawings for a more particular description of this invention, the numeral 1 designates a tooth brush which may be of any desirable character and contour, having a handle 2, which may be of any suitable shape. A recess or groove 3 is formed in the handle at a slight distance from the bristle portion of the brush, and 4 is an elastic shield adapted to be passed over the handle of the brush and retained by its own resiliency in the groove in the handle. The elastic shield 4 is slightly concavo-convex in cross section. In the form of my invention shown in Figs. 1 and 3, the handle and head portions of the stock are formed of a single piece of material.

In the form of my invention shown in Fig. 2, the handle portion 2′ of the stock is detachable from the head portion. Said handle portion has a projection 3′ at its inner end, forming a shoulder on said end, and said projection has its outer portion tapered and screw-threaded, as at 5′. The head portion has a similarly-shaped, screw-threaded socket to receive said projection. The shield in both forms of my invention serves as a stopper for the mouth end of the casing 6, shown in Fig. 2.

Various changes in the form, proportion and minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus fully described my invention, what I claim as new and desire to secure by Letters-Patent, is:—

1. A tooth brush provided with a groove surrounding the handle of the same at a point between the brush head and the portion gripped by the hand in using the brush, and a concavo-convex elastic disk having a central aperture therein, said aperture being normally smaller than the handle at the base of the groove, and said disk being fitted in said groove to form a liquid-tight connection between said disk and shank to prevent saliva and dentifrices from soiling the hand of the user.

2. In combination with a casing open at one end, a tooth brush having an elastic disk connected to the handle thereof, and forming a stopper for the open end of the casing, for the purpose set forth.

3. A tooth brush provided with an elastic shield secured to the handle portion thereof, and a casing for said tooth brush, the opening in which is slightly smaller than the shield, substantially as described.

JAMES ANSON COCHRANE.

Witnesses:
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