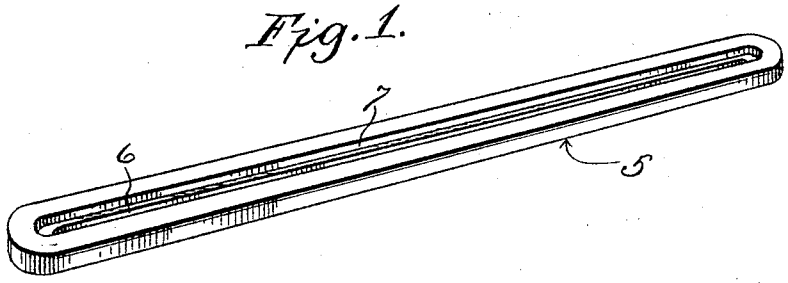
A. F. HALLER.

TOOTH BRUSH.

APPLICATION FILED APR. 21, 1916.

1,199,268. Patented Sept. 26, 1916.

Fig. 1.



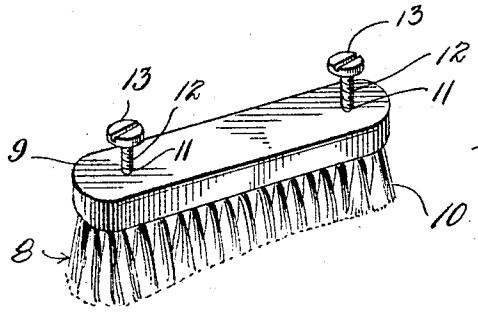


Fig. 2.

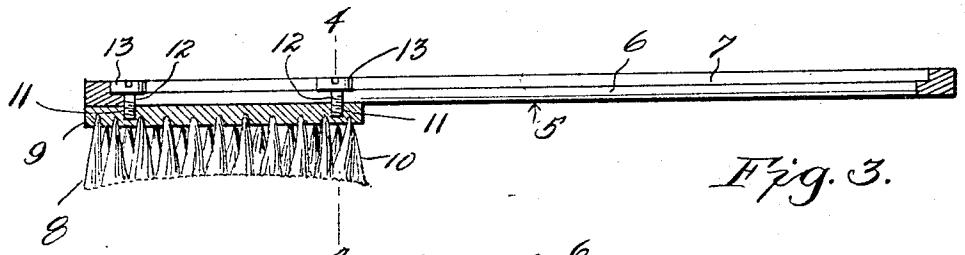


Fig. 3.

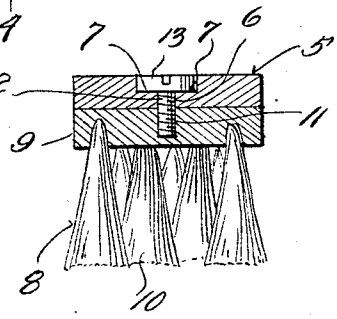


Fig. 4.

Inventor

A. F. Haller

Witnesses

Thos. Carter

Dwight B. Galt.

By Daniels & Saunders

Attorneys

UNITED STATES PATENT OFFICE.

ARTHUR F. HALLER, OF MERROW, CONNECTICUT.

TOOTH-BRUSH.

1,199,268. Specification of Letters Patent. Patented Sept. 26, 1916.

Application filed April 21, 1916. Serial No. 92,710.

To all whom it may concern:

Be it known that I, ARTHUR F. HALLER, a citizen of the United States, residing at Merrow, in the county of Tolland, State of Connecticut, have invented certain new and useful Improvements in Tooth-Brushes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to tooth brushes, and has for its primary object to provide a construction wherein there will be employed in connection with a homogeneous handle, a brush head for use at either extremity of the handle under identical conditions and presenting identical structure and arrangement.

A further object of the invention is to provide in a tooth brush having the brush head slidable thereon, improved means for retaining the said head firmly upon the handle in its various positions of adjustment.

A still further object of the invention is to provide a device of this character which is of simple and inexpensive construction, which is composed of but few readily assembled parts, all so constructed and arranged as to preclude the possibility of wear, derangement, or breakage of the same, the device enabling the life of the brush to be materially lengthened.

With these objects in view, together with others which will appear as the description proceeds, the invention resides in the novel combination and arrangement of parts, all as will be described more fully hereinafter, illustrated in the drawings and particularly pointed out in the claim.

The invention will be best understood by reference to the accompanying drawings, wherein:

Figure 1, is a perspective view of the improved brush handle, Fig. 2, is a similar view of the brush head, Fig. 3, is a longitudinal sectional view taken through the assembled brush, and Fig. 4, is a transverse sectional view taken on line 4—4 of Fig. 3.

Referring now more particularly to the drawings, 5 indicates the brush handle, the same being formed of an elongated bar of wood, bone, or metal, or any other suitable or desired material, and is relatively narrow and thin. This handle is provided with a central longitudinal slot 6, the said slot terminating at its ends inwardly from the extremities of the handle, and provides spaced parallel walls. The slot at the under portion of the handle may be restricted in width as shown, the construction providing shoulders 7 midway the depth of the slot.

The brush is indicated generally at 8. This brush may be formed of a head 9 of suitable material of a width preferably equal to that of the handle 5, and the brush bristles 10 project from the under face of the head. The upper face of the head is flat, and is provided adjacent its ends with threaded openings 11, the said openings being spaced an equal distance inwardly from the longitudinal edges of the said head. Screws 12 are inserted through the slot in the handle of the brush and engage in the threaded openings 11 of the brush head, the said screws having heads 13 adapted to seat at their lower edges upon the shoulders 7 at the edges of the slot 6. This arrangement permits of the screws 12 being extended through the slots and into the brush handle with the upper faces of the screw heads lying flush with the upper face of the brush handle. From this construction it is apparent that the brush head may be easily and quickly moved to the opposite end of the handle when desired, whereby the bristles formerly at the outermost extremity of the brush head will be positioned inwardly from the handle end, and the length of the life of the tooth brush greatly lengthened. It is also to be observed that the same handle may be used indefinitely, as worn brushes may be removed and new brushes inserted in their stead. The edges of the slot 6 in the present instance are shown as cut away to provide square or angular shoulders, but it is to be understood that these edges may be beveled if desired to enable the ordinary screw having inclined head faces to be applied to the device and to enable the outer face of the screw head to lie flush with the brush handle.

While I have herein shown and described a particular or preferred embodiment of the invention, I wish it to be understood that I need not confine myself to all the precise details of construction herein set forth by way of illustration as modification and variation may be made without departing from the spirit of the invention or exceeding the scope of the claim.

What is claimed is:

A tooth brush, comprising in combination, a handle having a longitudinal slot of substantially equal length with the handle, a countersink surrounding said slot on one face of the handle, a brush head abutting the opposite face of the handle, and set-screws threaded into the back of the brush and riding in said slot to permit the head to be slid from end to end of the handle, the heads of the set-screws operating in said countersink.

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

ARTHUR F. HALLER.

Witnesses:

IVAN F. WILCOX,

E. C. SCHUEBELER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."