

A. A. PICARD.
TOOTH BRUSH.
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1,219,147.

Patented Mar. 13, 1917.

Fig. 1.

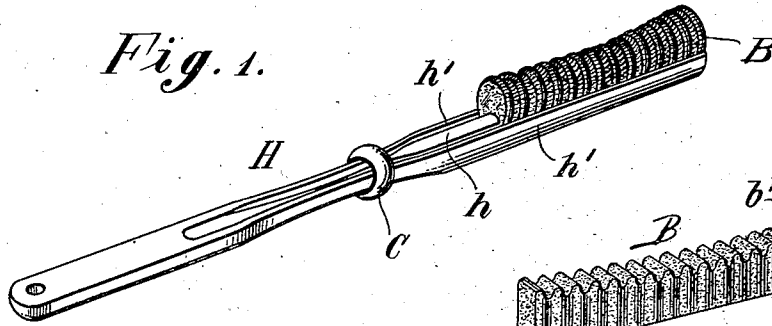


Fig. 2.

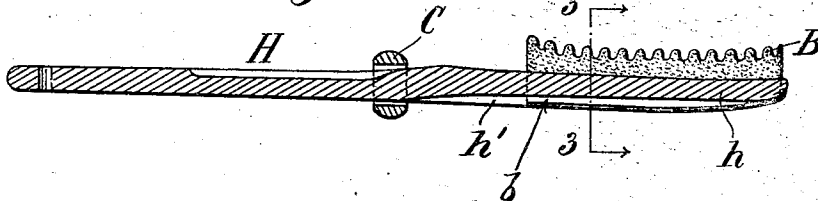


Fig. 7.



Fig. 4.

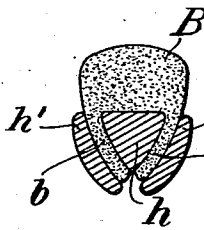


Fig. 3.

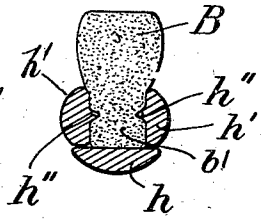


Fig. 5.

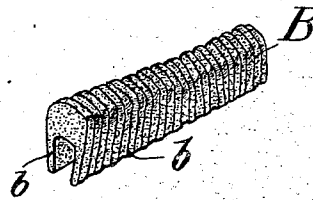


Fig. 6.

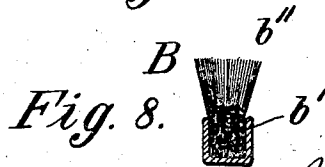


Fig. 8.

Witnesses:

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UNITED STATES PATENT OFFICE.

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TOOTH-BRUSH.

1,219,147.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALPHONSE ARTHUR PICARD, a native of Canada, and a resident of the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Tooth-Brushes, of which the following is a specification.

The object of my invention is to afford a cheap but efficient sanitary tooth brush or cleaner that may be used once and discarded to be replaced by another,—this detachable and discardable brush pad or rubber being made preferably of relatively soft absorbent material so that it may be charged with a suitable dentifrice, antiseptic, or other constituent for direct application to the teeth and gums of the user.

The invention consists in the specific construction and arrangement of parts described and claimed herein, a distinctive feature being the holder formed with a medial supporting member for the brush pad, in conjunction with elastic resilient lateral jaw members and means for clamping them against the brush pad positioned on said medial supporting member, as hereinafter more fully set forth.

In the accompanying drawings,
Figure 1, is a perspective view of a tooth brush embodying the essential features of my invention;

Fig. 2, is a central longitudinal section of the construction shown in Fig. 1;

Fig. 3, is a transverse section upon an enlarged scale taken upon plane of line 3—3, Fig. 2;

Fig. 4, is a central longitudinal sectional elevation of a slightly modified structure;

Fig. 5, is a transverse section upon an enlarged scale taken upon plane of line 5—5, Fig. 4;

Fig. 6, is a perspective view of the brush pad shown in Figs. 1, 2, and 3, detached;

Fig. 7, is a similar view of the brush pad shown in Figs. 4, and 5;

Fig. 8, is a cross section of a brush pad in which bristles are used.

The essential features of the holder or handle H, are, the medial supporting member *h*, the lateral-jaw members *h'*, *h'*, and the clasp C, by means of which these members, particularly the jaw members *h'*, *h'*, may be clamped against the sides of the brush pad or element B, to hold it in posi-

tion for use, or released to admit of the discard of said brush member B.

Presuming the handle H, to be made of material having elastic resilient qualities to a greater or less extent, as of celluloid and similar compositions and materials available for the purpose, it is obvious that if the external sides of the jaw members *h'*, *h'*, are tapered or inclined more or less convergently toward the rear of the handle as in Fig. 1, of the drawings, the forward thrust of the clasp C, will force the side jaws *h'*, *h'*, in toward each other, thereby clamping between them the sides and base of the brush pad or element B, resting on the medial supporting member *h*, of the handle H.

In Figs. 1, 2, and 3, the medial tongue or support *h*, is shown as adapted for insertion in a brush B, having lateral extensions *b*, *b*, to be clamped between said medial tongue or member *h*, and the side jaws *h'*, *h'*, as shown more particularly in Fig. 3, whereas in Figs. 4, and 5, the medial member *h*, forms simply a floor support for the comparatively solid brush pad B, the spine or base *b'*, of which is clamped by and between the jaws *h'*, *h'*, as shown more particularly in Fig. 5. In either case the result is the same in that the brush pad or element B, is firmly secured in position on the handle H, in such a manner as to be available for use. If desired this result may be still further insured by providing the inner sides of the jaws *h'*, *h'*, with barbs or protuberances *h''*, *h''*, as indicated in Fig. 5, or by serrating or roughening said inner surfaces of the jaws in a manner well known to increase frictional contact with the brush pad B.

Thus I do not limit myself to any particular construction of my elongated brush pad B, as it is obvious that various modifications thereof may be resorted to without departing from the spirit and intent of my invention in this respect. For instance the base *b'*, of the brush pad B, shown in cross section in Fig. 8, may be provided with bristles *b''*, as in the case of an ordinary tooth brush. I prefer however, as hereinbefore stated, to use an absorbent material in the formation of my elongated brush pad B, so that it may be saturated or impregnated with a dentifrice, antiseptic or the like,—the substance thus stored in or upon the brush pad B, being preferably soluble so as to be directly available for

application to and in the mouth of the user, although it is obvious that a powdered dentifrice, antiseptic or similar constituent may be applied to the brush pad if found expedient.

In this connection it may be stated that my brush is especially efficacious for use in hospitals and situations where there is danger of contamination, infection or contagion, since it affords a convenient medium not only for cleanliness and sanitation, but also as a means for applying a medicament and special treatments in the case of invalids and patients,—the brush pad being capable of immediate detachment and destruction after use, and the handle H, being easily cleansed and sterilized by means well known.

Obviously the form of clasp C, used is of secondary importance provided it performs the function described herein, *i. e.*, that of affording means whereby the jaws *h'*, *h'*, may be clamped against the brush pad B upon the medial supporting member *h*, to secure it on the handle H, in position for use.

What I claim as my invention and desire to secure by Letters Patent is,—

1. A tooth brush of the character designated, comprising a handle formed with a medial supporting member and lateral jaw members of resilient material, a removable

brush pad adapted to rest on said medial supporting member and to be embraced by said jaw members, and a clasp slidably embracing said medial supporting member and the jaw members for clamping said pad in position.

2. A tooth brush of the character designated, comprising a one-piece handle of elastic resilient material formed with a medial supporting member and with clamping jaws extending on opposite sides thereof, a removable brush pad supported upon said medial supporting member, and means slidably embracing said medial supporting member and clamping jaws to firmly clamp said pad between said jaws.

3. A tooth brush of the character designated, comprising a one-piece handle of elastic resilient material formed with a medial supporting member and with clamping jaws extending on opposite sides thereof, a removable brush pad supported upon said medial supporting member, and means slidably embracing said medial supporting member and clamping jaws to firmly clamp said pad between said jaws, said medial supporting member being received within and embraced by the side portions of said pad.

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Witnesses:

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