L. A. BLOCK.

TOOTH BRUSH.

APPLICATION FILED JULY 21, 1916.

1,326,638. Patented Dec. 30, 1919.

Fig. 1

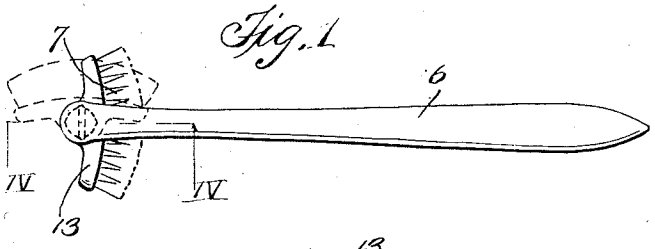
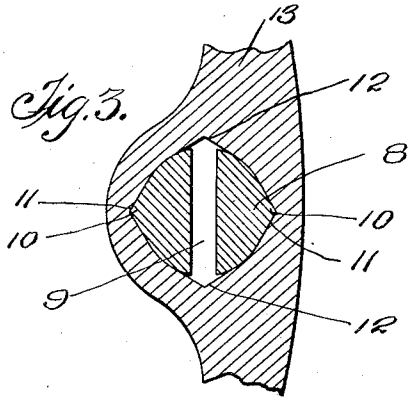


Fig. 3.



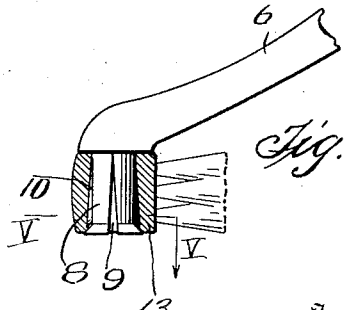


Fig. 2.

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LOUIS ADRIEN BLOCK, OF NEW YORK, N. Y.

TOOTH-BRUSH.

1,326,638. Specification of Letters Patent. Patented Dec. 30, 1919.

Application filed July 21, 1916. Serial No. 110,442.

To all whom it may concern:

Be it known that I, LOUIS ADRIEN BLOCK, residing at New York, in the county and State of New York, have invented certain new and useful Improvements in Tooth-Brushes, of which the following is a specification.

This invention relates to a tooth-brush and the object thereof is to provide an improved type of brush adaptable for efficient use in relation to certain parts of the human teeth, which parts are not readily accessible to brushes of the type commonly in use.

A more detailed object is to provide a brush which embodies a brush element disposed to face approximately in the direction of the opposite end of the handle of the brush so that said brush element will be peculiarly adapted to reaching the inner surfaces of the teeth.

A further detailed object is to provide means whereby the mentioned brush element will be adjustable with respect to the handle of the brush so that it may be adjusted into various convenient positions for adapting it to particular uses.

Other objects and aims of the invention, more or less specific than those referred to above, will be in part obvious and in part pointed out in the course of the following description of the elements, combinations, arrangements of parts and applications of principles, constituting the invention; and the scope of protection contemplated will be indicated in the appended claims.

In the accompanying drawings which are to be taken as a part of this specification, and in which I have shown a merely preferred form of embodiment of the invention:

Figure 1 is a plan view of a tooth brush constructed in accordance with this invention, and indicating the bristle carrying portion of the brush in two different positions.

Fig. 2 is an enlarged detail sectional view taken upon the plane of line IV—IV of Fig. 1; and

Fig. 3 is a further enlarged sectional view taken upon the plane of line V—V of Fig. 2.

Referring to the drawings for a detailed description of the structure illustrated therein, the reference character 6 indicates the handle of the brush. The brush element 7 is arranged at one end of the handle 6, and is carried upon the plate 13 which is pivotally connected at one end of the handle.

The pivotal connection may be made in any approved manner, but preferably includes a pivot extension 8 projecting laterally at the end of the handle, said extension being bifurcated, or made into two lugs, as at 9, and these are of suitable material, such as celluloid, so that the bifurcation thereof renders the two lugs resilient with respect to each other.

Each of the lugs is provided with angular ribs, or projections, 10.

The plate 13 is formed with a bearing aperture therethrough for receiving the pivot extension 8, said aperture having a pair of recesses, 11, in the side walls thereof for receiving the ribs 10 when the plate 13 is in one position, and having a second set of recesses, 12, for receiving the ribs 10 when the plate is in a different position.

Any desired number of sets of recesses may be formed within the bearing aperture of the plate for retaining the brush element in different positions, but usually two sets is sufficient, one set for retaining the brush in a right angular position with respect to the length of the handle, and the second set for retaining the brush in substantially the same plane as the handle, as illustrated by the dotted lines in Fig. 1.

The pivot extension 8 may be made to project from the handle at any desired angle, with respect to the general direction of length of the handle, so to dispose the rubbing surface of the brush element in the most appropriate position relatively to the handle for properly operating upon the inner surfaces of the user's teeth.

As many changes could be made in this construction without departing from the scope of the following claims, it is intended that all matter contained in the above description or shown in the accompanying drawing shall be interpreted as illustrative only and not in a limiting sense.

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

1. A tooth brush comprising a handle portion and a separately formed bristle carrying portion, the bristle carrying portion comprising an elongated member having a set of bristles projecting from one face thereof, said member having an aperture formed therethrough in a direction transverse to the plane in which the bristles project, the handle portion having a pivot part extending laterally therefrom through the

aperture in said bristle carrying member pivotally connecting the bristle carrying member with the handle to permit rotary adjustment of the bristle carrying member so that the bristles thereof may be caused to face in the direction of either side or one end of the handle, and the bristle carrying member and said pivot part of the handle having means coöperative to yieldingly obstruct free rotation of the bristle carrying member when the bristle carrying member is in a selected position of rotary adjustment.

2. A tooth brush comprising a handle portion and a separately formed bristle-carrying portion, the bristle-carrying portion comprising an elongated member having a set of bristles projecting from one face thereof as is common to tooth brushes, and said member having an aperture formed therethrough transverse to the plane in which said bristles project, the handle portion having a pivot extending laterally therefrom rotatably through the aperture in said bristle-carrying member adapted to connect the bristle-carrying member with the handle and to permit adjustment of the bristle-carrying member so that the bristles thereof may be caused to face in the direction of either side or one end of the handle, the aperture in the bristle-carrying member having a plurality of recesses therein, and the pivot comprising resilient parts for engaging within said recesses adapted to yieldingly retain the bristle-carrying member in any one of a plurality of adjusted positions.

3. A tooth brush comprising a handle portion and a separately formed bristle-carrying portion, the bristle-carrying portion comprising an elongated member having a set of bristles projecting from one face thereof as is common to tooth brushes, and said member having an aperture formed therethrough transverse to the plane in which said bristles project, the handle portion having a pivot extending laterally therefrom rotatably through the aperture in said bristle-carrying member adapted to connect the bristle-carrying member with the handle and to permit adjustment of the bristle-carrying member so that the bristles thereof may be caused to face in the direction of either side or one end of the handle, the aperture in the bristle-carrying member having a plurality of recesses therein, and the pivot comprising a pair of resilient lugs carried by the handle having parts spaced apart and compressible toward each other to permit portions thereof which engage within said recesses to yieldingly retain the bristle-carrying member in any one of a plurality of adjusted positions.

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

LOUIS ADRIEN BLOCK.

Witnesses:

L. GESSFORD HANDY,

HELEN CAREY.