

Sept. 14, 1937.

M. RUDOF ET AL

2,093,383

TOOTH BRUSH

Filed Oct. 15, 1935

FIG. 1.

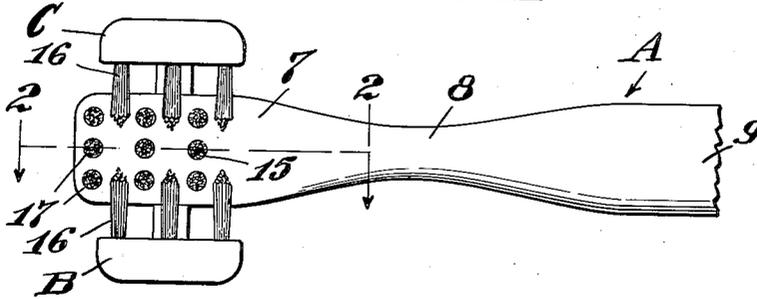


FIG. 2.

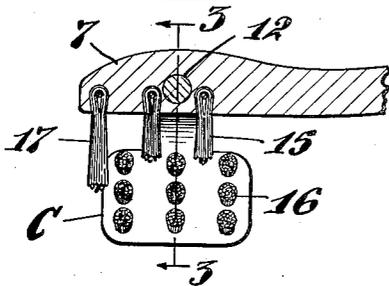


FIG. 3.

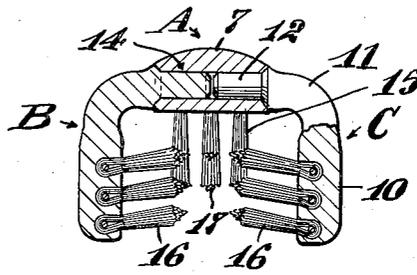


FIG. 4.

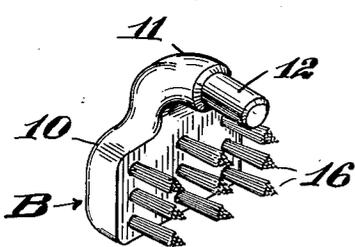


FIG. 5.

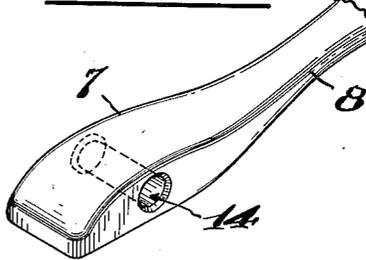
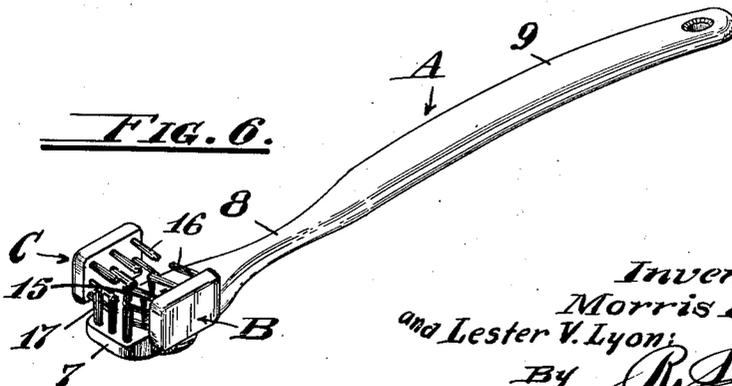


FIG. 6.



Inventors:
Morris Rudof
and Lester V. Lyon
By *R. S. Binn*
Att'y.

UNITED STATES PATENT OFFICE

2,093,383

TOOTH BRUSH

Morris Rudof and Lester V. Lyon, Los Angeles,
Calif.; said Lyon assignor to said Rudof

Application October 15, 1935, Serial No. 45,086

2 Claims. (Cl. 15—167)

This invention relates to a tooth brush and more particularly pertains to tooth brushes of the type set forth in United States Patent Number 1,967,783, issued to us July 24, 1934, embodying a substantially U-shaped head portion fitted with tufts of bristles projecting inwardly toward each other from each of the side members thereof, and also fitted with tufts of bristles projecting from the connected portion of the head whereby on manipulating the brush astride the teeth bristles will engage the anterior, interior and edge surfaces of the teeth.

An object of the invention is to provide an arrangement in a brush of the above character whereby the bristles protruding from the side portions of the brush head are so arranged as to effect a massaging action on the gums, and also provide an arrangement of end bristles adapted for engagement with the rear faces of end molars.

Another object is to provide a simple construction in the brush head whereby assemblage of the brush is facilitated.

With the foregoing objects in view together with such other objects and advantages as may subsequently appear, the invention resides in the parts and in the combination, construction and arrangement of parts hereinafter described and claimed, and illustrated by way of example in the accompanying drawing in which:

Fig. 1 is a plan view of the brush as seen from the under side thereof;

Fig. 2 is a view in section and elevation taken on the line 2—2 of Fig. 1 as seen in the direction indicated by the arrows;

Fig. 3 is a detail in cross section viewed on the line 3—3 of Fig. 2 in the direction indicated by the arrows;

Fig. 4 is a perspective view of one of the brush side members showing it detached;

Fig. 5 is a detail in perspective of the head end portion of the tooth brush handle; and

Fig. 6 is a perspective view of the tooth brush as viewed from the under side thereof.

Referring to the drawing more specifically, A indicates the handle of the tooth brush which embodies a head portion 7 from which leads a neck portion 8 connecting with a shank 9.

In carrying out the invention the head portion 7 is fitted with a pair of side members B and C each of which embodies a back portion 10 formed with an upwardly and inwardly extending neck 11 terminating in a shank 12 here shown as cylindrical and projecting at right angular relation to the back portion 10.

The shanks 12 of the side members B—C are in-

serted in a bore 14 extending transversely of the head 7, and are tightly engaged therein with the side members disposed in opposed parallel relation thus forming a brush head of substantially U-shape with the members B—C constituting the side portions and the head 7 constituting the connection portion.

Previous to assembling the side members B and C on the handle head 7 the side members and the head are each fitted with a series of bristle tufts; the tufts on the head 7 comprising a series of rows of tufts 15 and those on the side members B and C consisting of rows of tufts 16; the head 7 also carrying a series of end tufts 17 on its forward end which latter tufts are of greater length than the tufts 15 rearwardly thereof as particularly shown in Fig. 2, so that the tips of the tufts 17 will project beyond the tips of the tufts 15.

The bristle tufts 16 on the side members B and C are arranged in rows and incline upwardly toward the under side of the head 7 with the tufts on the member B terminating in slightly spaced relation to the tufts on the member C and with the uppermost row of the tufts 16 on the members B—C terminating substantially on the plane of the rearwardmost tufts of bristles 15 on the head 7. The elongated bristle tufts 17 are arranged on the head 7 to project downwardly in front of the outermost tufts of the upwardly inclined bristles 16 as particularly shown in Fig. 3.

By thus arranging the bristles, the brush is adapted to be readily disposed astride the teeth so as to bring the bristles 16 in juxtaposition with the anterior and interior surfaces of the teeth and with the bristles 15 in position for engagement with the edge portion of the teeth; while the end tufts 17 are adapted for engagement with the back surfaces of end teeth, such as the molars.

By disposing the bristles 16 at upward inclinations the lowermost tufts thereof when disposed astride the teeth tend to bend upwardly when brought against the gums so that in manipulation of the brush by a reciprocal movement longitudinally of a row of teeth the side portions of the outer end of the tufts 16 will effect a massaging action on the gums. Furthermore by thus presenting the side portions of the bristles to the gums the possibility of puncturing the gums, as sometimes occurs on presenting bristles endwise thereto, is obviated.

By employing the assemblage of the brush head as here shown the provision of the arrangement of bristles set forth is easily accomplished since

the bristling of the side members B—C and of the head T may be effected before assemblage thereof.

We claim:

- 5 1. In a tooth brush, a handle having a head portion, a series of tufts of bristles on said head portion, a pair of side members carried on said head portion extending from opposite sides thereof, and a series of tufts of bristles on each of said side portions projecting at an upward incline
10 inwardly toward each other and toward the bristles on said head portion.
2. In a tooth brush, a handle having a head

portion, a series of tufts of bristles on said head portion including outer end tufts of greater length than adjacent tufts, a pair of side members carried on said head portion extending from opposite sides thereof, and a series of tufts of bristles on each of said side members projecting upwardly at an incline inwardly toward each other and toward the tufts on said head portion and positioned rearwardly of the longer end bristles on the latter.

MORRIS RUDOF.
LESTER V. LYON.