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H. G. ARNOLD

2,079,728

TOOTH BRUSH MASSAGER

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Fig. 1.

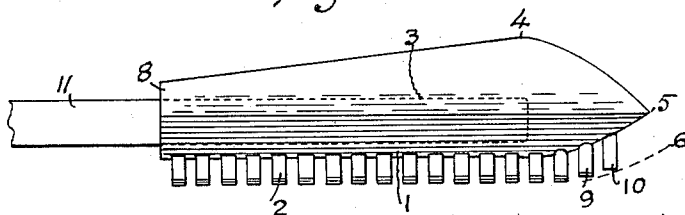


Fig. 2.

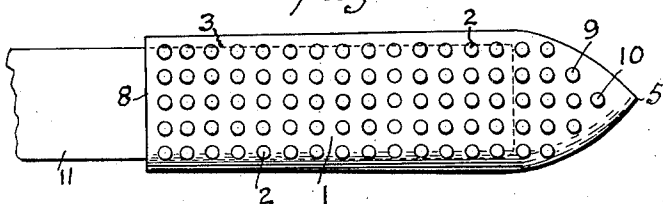


Fig. 3.

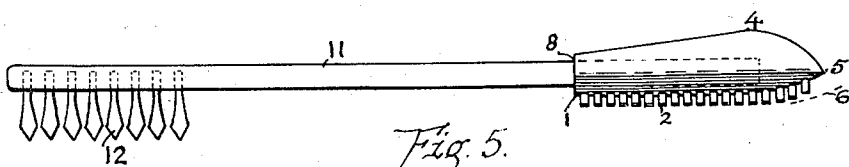
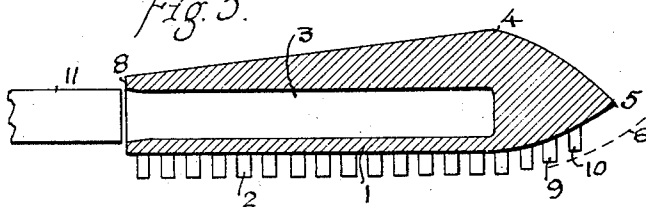


Fig. 5.

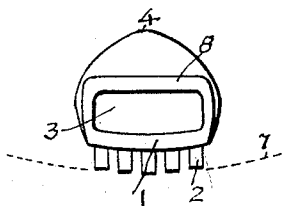


Fig. 4.

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## UNITED STATES PATENT OFFICE

2,079,728

## TOOTH BRUSH MASSAGER

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Application July 29, 1936, Serial No. 93,251

4 Claims. (Cl. 128—62)

My invention relates to improvements in tooth brush massagers and it more especially consists of the features pointed out in the claims.

The purpose of my invention is to provide a massager made of soft velvet rubber that in its availability is associated with a tooth brush, being attachable to the fore end of the handle by simply slipping it into place, there, however is enough elasticity to the material and the opening in the massager being slightly smaller than the average cross section of tooth brush handles it remains snugly in position while the massager is in use. A further purpose is to insure that the brush and massager are always associated with each other to prevent the massager being misplaced. The projections are formed on one face of the massager and the other face has a rounded enlargement which serves as a reinforcement and at the free end it terminates into a point.

With these and other ends in view there is illustrated in the accompanying drawing such instances of adaptation as will show the related features without limiting myself to the specific details shown thereon and described herein.

Fig. 1 is an enlarged side elevation.

Fig. 2 is an enlarged bottom plan view of Fig. 1.

Fig. 3 is a lengthwise cross section of Fig. 1.

Fig. 4 is an enlarged elevation from the open end of the massager.

Fig. 5 is a diagrammatic view showing the massager in relation to a tooth brush at the other end of the handle.

In practicing the invention I may use whatever alternatives or equivalents of parts that the exigencies of varying conditions may demand without departing from the broad underlying features of the invention.

I may form the massager as instanced in the accompanying drawing wherein an opening 3 is made to receive a handle 11 of a tooth brush 12. In order that it will remain firmly in place during use the opening is made slightly smaller than the handle. At the entrance to the opening 3 the rubber is approximately the same thickness all around, as at 8. However on the bottom it may be slightly thicker at the center so as to position the cylindrical or other shaped projections 2 at their bottom ends on a curve 7. At the front end 5 the massager is made pointed. The under thickness 1 is thin enough to be resilient and serve as a cushion for the projections 2 while the upper portion is made gradually thicker as shown in Figs. 1 and 3. It terminates in a rounded portion 4 which acts as a reinforcement to the thin under part 1. Toward the point 5 the bottom ends of the projections 2 are on a curve 6 leading to the point. As instanced in the drawing Fig. 2 there are five rows of projections,

lengthwise, at the front end there is a single projection 10 and next to the five row group at 9 there are only three, thus conforming to the general side and plan contours of the massager.

My device is sharply differentiated from finger cot massagers which are easily misplaced and lost. In addition to the assurance that my massager will always be associated with a basic dental requirement—a tooth brush, I attain greater hygienic security because of the custom of storing tooth brushes in holders provided therefor.

The massager on account of the thin thickness of rubber above the projections produces a velvety "texture" one that is readily adapted to the variations of curvature of the gums and the extra thickness at 4 serves as a compactor to the gums as a whole and the reduction of the number of projections at 9 and 10 associated with the point 5 will permit of the individual massaging at the base of a tooth which cannot be done with a large group of projections.

What I claim is:—

1. In a massaging device that is associated with a tooth brush by being slipped onto the handle of the brush, the combination of a soft rubber exterior having an opening for the reception of a tooth brush handle, a thin under part, a plurality of projections dependent therefrom, a gradually increasing thickness opposite the thin part, a pointed termination opposite the open end, and a small separate group of projections near the point.

2. In a massaging device that can be slipped onto the handle of a tooth brush, the combination of a soft rubber body having a lengthwise opening therein, a thin wall on the underside of the opening, a plurality of small cylindrical projections integral with the thin wall, a semi-conical pointed projection opposite the opening, a compacting enlargement on the upper side, and isolated massaging elements near the point.

3. In a device slidable onto a tooth brush handle adapted for massaging purposes, the combination of a soft rubber pointed body, having a lengthwise opening opposite the pointed termination of the body, a gradually increasing thickness on one side of the opening, a thin wall opposite thereto, and a plurality of projections integral with the wall.

4. A massaging device which comprises a soft rubber body having a lengthwise opening therein, a plurality of massaging projections integral with a thin wall of the body, and a compacting semi-spherical enlargement on the side of the body opposite the projections.

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