Nov. 6, 1928. 1,690,706

J. SILBERSTANG

TOOTHBRUSH

Filed Feb. 14, 1925

Fig. 1.

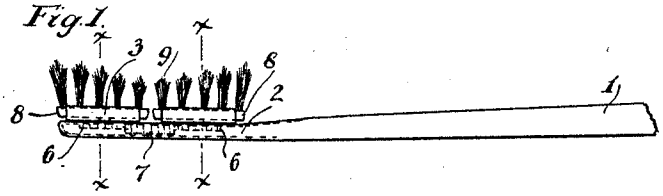


Fig. 2.

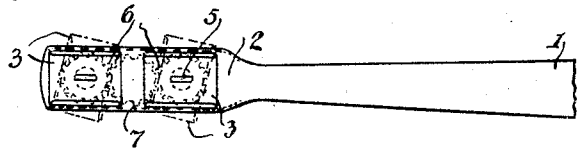


Fig. 3.

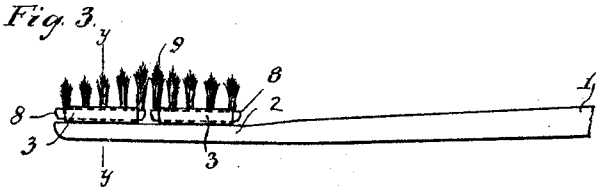


Fig. 4.

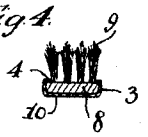
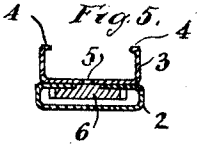


Fig. 5.



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UNITED STATES PATENT OFFICE.

JACOB SILBERSTANG, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO JACK I. SAKS, OF NEW YORK, N. Y.

TOOTHBRUSH.

Application filed February 14, 1925 Serial No. 9,257.

One of the objects of my invention is to provide a brush in which the contour of the wearing points of the tufts may be changed.

Another object of my invention is to provide for the ready removal of any of the self-contained groups of tufts and the replacement thereof after wear or a change to groups possessing a different quality.

Still another object is to provide a means whereby the groups of tufts may be arranged in other than an unbroken line for the purpose of avoiding obstacles.

Still further objects of my invention are to provide a device for the purpose intended which is simple to manufacture, rugged, easy to operate and which will not get out of order.

In the drawings, accompanying, is shown, by way of example, one of the possible embodiments of the invention:

Fig. 1 is a side view of the device showing the tufts grouped to form a concave contour.

Fig. 2 is a plan view with brushes removed, showing the plan of the operating mechanism.

Fig. 3 is a side view of the device showing the tufts grouped to form a convex contour.

Fig. 4 is a cross section view of the brushes taken on line x—x, Fig. 1.

Fig. 5 is an enlarged cross-section view of the holder with brushes removed taken on line y—y, Fig. 3.

My improved device consists of a handle 1 of suitable material, such as aluminum, with a tubular end portion 2, flattened and widened, if required, at the brush end of the handle. Mounted on the said brush end 2 are channels 3 with inwardly bent edges or legs 4. The said channels are secured, through openings 5, Fig. 2, to the toothed disks or wheels 6, said disks engaging with a toothed idler 7. The brushes 8 preferably consists of rows of tufts of bristles 9, secured in a base 10 made from suitable composition, such as celluloid. Said base inserts snugly into and through channel 3 being held therein frictionally, and by the inwardly bent edges 4.

Likewise the channel 3 may be rigidly secured to the handle 1; and the said base 10 of brush 8 made either square, hexagonal, or octagonal, as preferred; the said base being provided on the top edge of every side with a recess whereby to engage a corresponding projection, selectively placed on sides 4 of channel 3.

When used as a tooth brush, it is obvious that the brushes may be arranged to clean the outside of the teeth (Fig. 1); to clean the inside (Fig. 3); or, as in (Fig. 2) to cleanse the outer and inner parts of a plate for artificial teeth.

While a specific application of the invention is herein described, the invention is not limited to this since the device may be adapted to many and various uses without departing from the scope of the invention, as claimed.

I claim:

1. The combination of a handle having an end portion providing a supporting means, a pair of members rotatably mounted on said end portion, each member being provided with a row of bristle tufts, said tufts being graduated in lengths from one end to the other of the member whereby said member may be rotated to effect a brushing surface of concave or convex contour.

2. A tooth brush consisting of a handle flattened and hollowed, a pair of toothed disks spaced apart in said hollow portion, a toothed idler disposed in said hollow portion between the disks and engaging both the disks, mounts attached to said disks for rotation therewith, and means on each of said mounts provided with a row of graduated bristle tufts.

3. In a tooth brush, the combination of a handle provided with a supporting means; a pair of elongated members mounted on said supporting means and each reversible thereon end for end, each member carrying a row of bristles graduated from end to end thereby forming deep and shallow brush ends, whereby when the shallow ends are adjacent a concaved brushing surface is formed and when the deep ends are adjacent a convexed brushing surface is formed.

4. In a tooth brush, the combination of a support; a pair of members reversibly mounted on said support and each reversible thereon end for end, each member carrying a row of bristles graduated from end to end thereby forming deep and shallow brush ends.

5. In a tooth brush, the combination of a handle provided with a supporting means;

a pair of elongated members mounted on said supporting means and reversible thereon end for end; said members having inwardly turned edges to form channels; and bases frictionally slidably received between said edges of the respective members, and each carrying a row of bristles graduated from end to end thereby forming deep and shallow brush ends.

Signed at New York, in the county and State of New York, this 10th day of February A. D. 1925.

JACOB SILBERSTANG.