

Feb. 21, 1928.

1,659,628

C. GREENBLATT

TOOTHBRUSH

Filed March 9, 1927

Fig. 1.

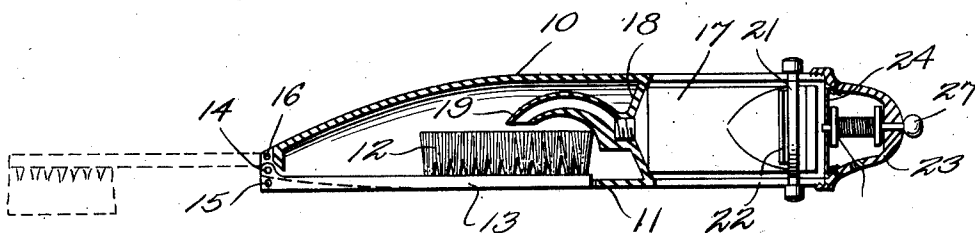


Fig. 4.

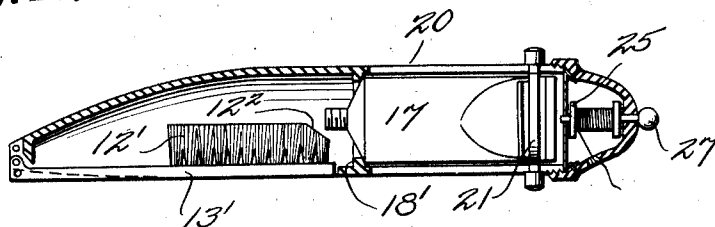


Fig. 2.

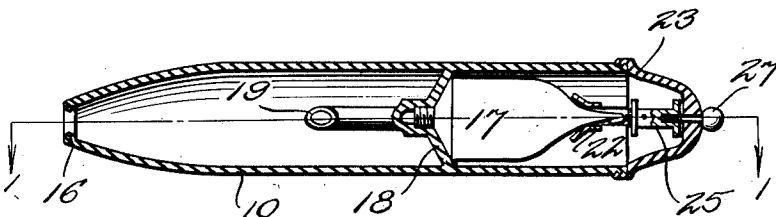
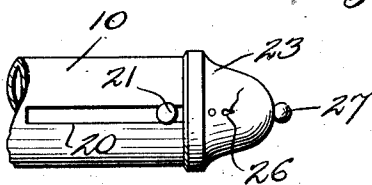


Fig. 3.



*R. E. Case*

WITNESS:

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# UNITED STATES PATENT OFFICE.

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## TOOTHBRUSH.

Application filed March 9, 1927. Serial No. 173,999.

This invention relates to combined tooth brushes and dentifrice applying device therefor.

5 An object of the invention is to provide a handle member adapted to receive the brush for application of the dentifrice.

Another object of the invention is to provide means for controlling the discharge of the dentifrice.

10 A further object is to provide a floss holder carried within one end of the handle.

With the above and other objects in view, the invention further consists of the following novel features and details of construction to be hereinafter more fully described, 15 illustrated in the accompanying drawings, and pointed out in the appended claims.

In the drawing:

20 Figure 1 is a longitudinal sectional view taken on line 1—1 of Figure 2.

Figure 2 is a longitudinal sectional bottom plan view.

25 Figure 3 is a fragmentary elevation of the holder illustrating the mounting of the control device for the dentifrice.

Figure 4 is a longitudinal sectional view of a modified form of the invention.

30 Referring to the drawing in detail, wherein like characters of reference denote corresponding parts, the reference character 10 indicates a handle member provided with a cut-out portion 11 within the under side thereof.

35 A tooth brush 12 provided with a shank 13 is pivotally mounted as indicated at 14 within one end of the handle member. Said shank is provided with depressed portions 15 upon the opposed sides thereof and adjacent its pivoted end to receive projections 40 16 carried within the opposed side walls of the handle member to rigidly hold the brush in open and closed positions. A collapsible tube 17 containing a suitable dentifrice is positioned within the opposed end of the 45 handle member and which has the discharge neck therefor threaded centrally of a disk member 18. A discharge neck 19 carried by the disk member is extended over the bristles of the brush 12 when the latter is folded within the handle member. Spaced parallel elongated slotted portions 20 extended longi- 50 tudinally of the longitudinal axis of the handle member and upon diametrically opposite sides thereof are adapted to receive the outwardly projecting ends of a shaft 21 transversely disposed therein. A clip 22 car-

ried by the shaft 21 within the handle member is adapted to engage the pinched reduced end of the collapsible tube 17. The shaft 21 when slid within the slotted portions 20 60 will force the dentifrice from the tube 17 into the discharge neck 19 for application upon the brush. A closure cap 23 threaded upon one end of the handle member 10 is provided with a centrally apertured disk 24 65 adapted to journal the adjacent end of a spool 25 therein carried by and extended through said cap. Said spool has wound thereon a suitable dental floss which discharges the same through an opening 26 in 70 the cap 23 which is gradually tapered to provide cutting edges for severing the floss at a desired length. Said opening may also be used in the winding of floss upon the spool. A knob 27 carried upon the outer 75 end of the spool shaft is adapted to rotate the spool in either direction.

It will be noted from the foregoing description and accompanying drawing that the invention provides an exceedingly useful 80 and advantageous form of tooth brush which may be fed a suitable dentifrice precedent to opening the same from the handle member to prevent the accumulation of ex- 85 traneous matter due to the fact that dentifrices have affinities for such matter due to the adhering characteristics thereof.

In Figure 4 of the drawing I have illustrated a modified form of the invention 90 which embodies the general characteristics of the preferred form but which differentiates therefrom in the substitution of an annular flange 18' for the disk 18 and the elimination of the discharge neck 19. The shank 13' of a brush head 12' is accordingly 95 lengthened to position the brush head 12' in juxtaposition to the discharge end of the tube 17. Said end of the brush head is cut-away, as indicated at 12<sup>2</sup> to facilitate application of the dentifrice thereon. 100

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended 105 claims.

Having thus described the invention, what is claimed is:—

1. A combined dentifrice applying device and tooth brush comprising a housing 110 hingedly connected with the brush, a dentifrice container carried by the housing being

provided with a discharge neck located immediately adjacent the brush bristles when the brush is swung within the housing, and a discharge member carried by the housing engageable with one end of the dentifrice container to discharge the contents thereof.

2. A combined dentifrice applying device and tooth brush comprising a housing hingedly connected with the brush, a dentifrice container carried by the housing being provided with a discharge neck located immediately adjacent the brush bristles when the brush is swung within the housing, and a discharge member slidably mounted within the housing and engageable with the container to discharge the contents thereof.

3. A combined dentifrice applying device and tooth brush comprising a housing hingedly connected with the brush, a dentifrice container carried by the housing being provided with a discharge neck located immediately adjacent the brush bristles when the brush is swung within the housing, a

discharge member slidably mounted within the housing, and a clip carried by the discharge member being adapted for engagement with the container to discharge the contents thereof upon the bristles of the brush.

4. A combined dentifrice applying device and tooth brush comprising a housing hingedly connected with the brush, a dentifrice container carried by the housing being provided with a discharge neck located immediately adjacent the brush bristles when the latter is swung within the housing, a shaft slidably mounted within the housing, and a clip carried by the shaft being adapted for engagement with the reduced portion of the container and which when slid with the shaft being adapted to discharge the contents of the container upon the brush bristles.

In testimony whereof I affix my signature.

CAMILLE GREENBLATT.