April 13, 1926. 1,580,799

R. ANZALONE

FOUNTAIN TOOTHBRUSH

Filed Dec. 20, 1924

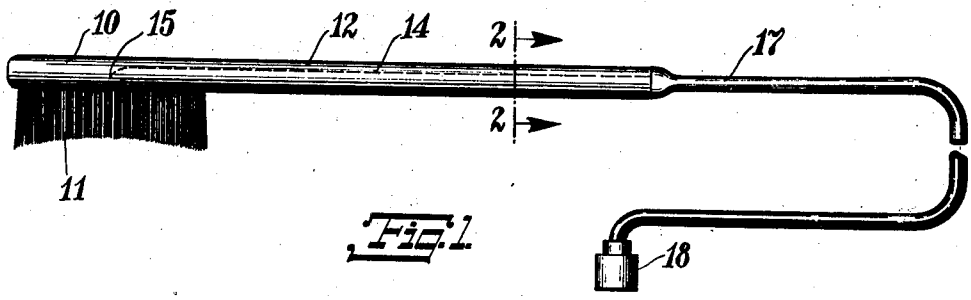


Fig. 1.

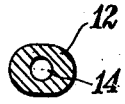


Fig. 2.
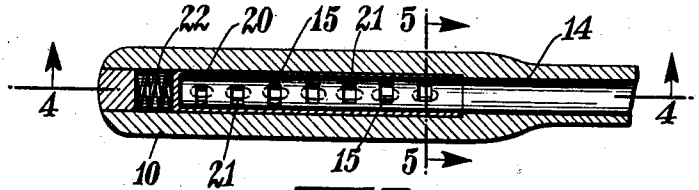


Fig. 3.

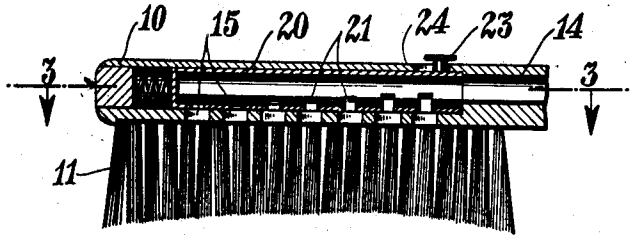


Fig. 4.

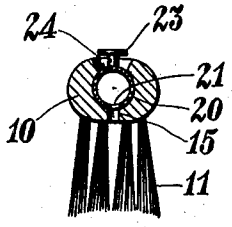


Fig. 5.

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UNITED STATES PATENT OFFICE.

ROBERT ANZALONE, OF BROOKLYN, NEW YORK.

FOUNTAIN TOOTHBRUSH.

Application filed December 20, 1924. Serial No. 757,121.

To all whom it may concern:

Be it known that I, ROBERT ANZALONE, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Fountain Toothbrushes, of which the following is a specification.

This invention relates to toothbrushes, the invention having more particular reference to a self moistening type of toothbrush.

The invention has for an object the provision of a novel toothbrush of this type arranged to be attached to a faucet by a flexible tubing to receive water frm the said faucet, a further object relating to the provision of means for controlling the flow of water to the brush to deliver the water in varying quantities to different parts of the brush as may be desired.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

Fig. 1 of the drawing is a side elevational view of my improved toothbrush.

Fig. 2 is a transverse sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a fragmentary longitudinal sectional view showing a modification, this view being taken on the line 3—3 of Fig. 4.

Fig. 4 is a fragmentary longitudinal sectional view taken at right angles to Fig. 3 and on the line 4—4 of the latter figure.

Fig. 5 is a transverse sectional view taken on the line 5—5 of Fig. 3.

Referring now to the drawing my improved brush comprises a backing element 10 of ordinary shape and material into which are set the brush bristles 11, this backing element being extended at one end in the form of handle 12. Entered longitudinally into the handle 12 is a boring 14 that extends also partially along the backing element 10 and is arranged to communicate with the face of said backing element to which the bristles are secured, the said backing element having a number of apertures 15 that communicate with the said boring. To the end of the handle 12 is attached one end of a rubber tube 17 whose other end is provided with a coupling member 18 that is adapted for attachment to a water faucet.

As shown more clearly in Figs. 3 to 5 I may mount a valve device in the boring 14 to control the apertures or ports 15 in the member 10. As here shown a tube 20 is inserted in the said boring and is formed with a number of arcuate apertures 21 spaced therealong, and registering with the aperture 15 in the member 10, one end of this tube being open to receive the water flowing through the boring 14. The other end of this tube is closed and has bearing thereon a coiled expansion spring 22 located in the end of the boring 14. The apertures 21 in the tube 20 are given a progressive arcuate or helical positioning with respect to one another as clearly shown in Fig. 3 of the drawing so that by partially rotating the tube the apertures at one end thereof may be moved partially or wholly out of registry with the adjacent apertures 15 in the member 10, without interfering with the full registry or the apertures in the other end of the tube with the adjacent apertures in the said member 10. In order to enable the tube 20 to be moved longitudinally and partially rotated it has a stud 23 fixed to one end thereof and projecting through a transverse slot 24 entered into the rear face of the backing member 10. As will be apparent by adjusting the tube 20 in a rotary direction the flow of water may be directed toward either end of the brushes desired by the user. By moving the tube longitudinally in the boring 14 the apertures therein may be moved as a unit out of registry with the apertures in the member 10. It will be understood of course that the tube 20 has sufficient frictional engagement in the boring 14 to maintain the rotary position to which it is adjusted.

Having thus described my invention, what I claim as new and desire to protect by Letters Patent of the United States is as follows:

1. A toothbrush comprising a backing element, bristles secured to one face of said backing element, said backing element being formed with a longitudinal boring and having a number of apertures spaced therealong and leading from the said face into the said boring, and a valve in said boring for selectively controlling the said apertures, said valve being in the form of a

sleeve arranged for rotary and longitudinal adjustment in the said boring and having a number of arcuate apertures therein spaced longitudinally in accordance with the apertures in the backing.

2. A toothbrush comprising a backing element, bristles secured to one face of said backing element, said backing element being formed with a longitudinal boring and having a number of apertures spaced therealong and leading from the said face into the said boring, and a valve in said boring for selectively controlling the said apertures, said valve being in the form of a sleeve arranged for rotary and longitudinal adjustment in the said boring and having a number of arcuate apertures therein spaced longitudinally in accordance with the apertures in the backing, said arcuate apertures having a helical positioning with respect to one another.

In testimony whereof I have affixed my signature.

ROBERT ANZALONE.