No. 776,468. PATENTED NOV. 29 1904.

A. HOSMER.

FOUNTAIN TOOTH BRUSH.

APPLICATION FILED JAN. 14, 1904.

NO MODEL.

Fig. 1

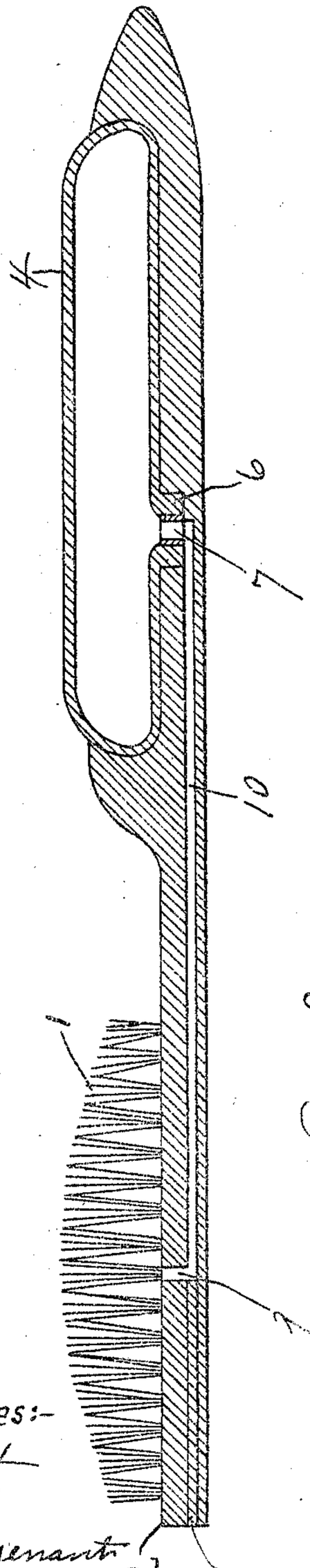
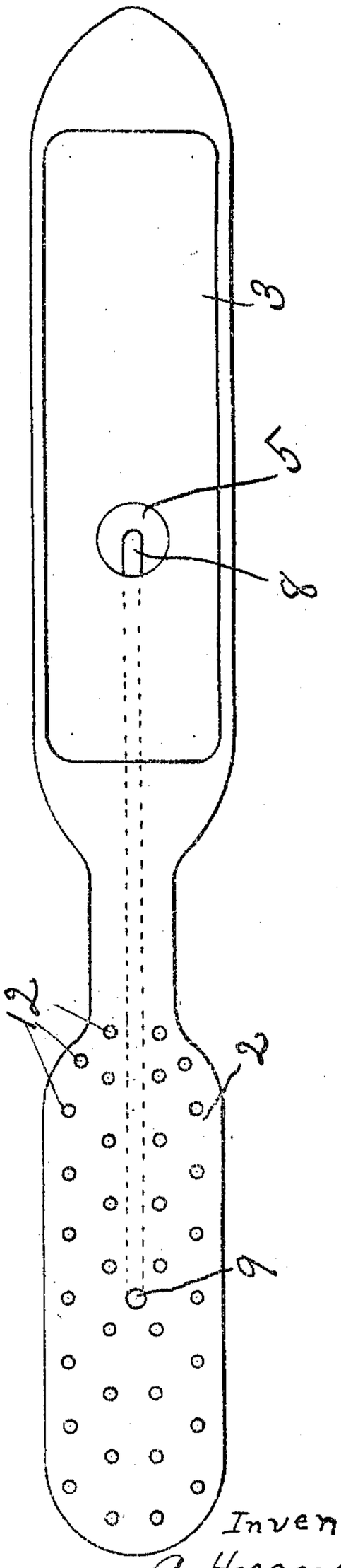


Fig. 3

Fig. 2.



Witnesses:-
J. W. Slatt
D. A. Whisenant

Inventor,
A. Hosmer,
By A. L. Jackson,
Attorney.

No. 776,468. Patented November 29, 1904.

UNITED STATES PATENT OFFICE.

ARTHUR HOSMER, OF FORT WORTH, TEXAS.

FOUNTAIN TOOTH-BRUSH.

SPECIFICATION forming part of Letters Patent No. 776,468, dated November 29, 1904.

Application filed January 14, 1904. Serial No. 189,012. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR HOSMER, a citizen of the United States, residing at Fort Worth, Texas, have invented certain new and useful Improvements in Fountain Tooth-Brushes, of which the following is a specification.

This invention relates to brushes, and more particularly to tooth-brushes; but brushes embodying the improvements herein may be used for various other purposes.

The object of this invention is to provide a brush having a bulb mounted on and attached to the handle of the brush in such a manner that the bulb will be held securely in place and from which water or other liquid may be forced from the bulb through the handle of the brush among the bristles.

Other objects and advantages will be fully explained in the following description, and the invention will be more particularly pointed out in the claims.

Reference is had to the accompanying drawings, which form a part of this application and specification.

Figure 1 is a longitudinal section of the brush and bulb. Fig. 2 is a face view of the brush-handle, showing the position of the duct leading from the bulb-cavity to a point among the bristles and showing the holes for the bristles. Fig. 3 is a plan view of the ferrule or ring for dilating the mouth of the bulb.

Similar characters of reference indicate the same parts throughout the several views.

My improved brush is provided with bristles 1, as commonly used in brushes, which bristles are inserted in the brush-back 2. The handle of the brush has a cavity 3 formed therein for receiving the bulb 4. The bulb 4 is preferably constructed of rubber or some other elastic material. In the bottom of the cavity 3 is formed a seat 5 for the mouth 6 of the bulb 4. The mouth is made in a boss or projection on the bulb 4. This boss is made so that the wall around the opening will be of considerable thickness, so that the bulb will be held in place thereby when this mouth is pressed in the seat 5. In order to hold the opening through the boss dilated, a metal thimble or ferrule 7 is inserted therein. When this boss or mouth is pressed in the seat 5 and the bulb inserted in the cavity 3, there will be no danger of the bulb being separated from the handle with ordinary usage. It will be noticed that the cavity 3 has the walls at each end thereof concave to receive the ends of the bulb 4. From the seat 5 a duct 8 is formed, which leads to the opening 9 among the bristles 1. In order to make the duct 10, it is necessary to drill from the end of the back of the brush or from the end of the handle. I show the device constructed with provision for drilling the duct 10 from the end of the back of the brush, and the duct from the opening 9 to the end of the brush-back is plugged up with the filling 11. Fig. 2 shows the openings 12 for the bristles. The ferrule 7 holds the mouth of the bulb open and also aids in wedging the wall of the bulb about the ferrule in the seat 5.

In order to fill the bulb 4 with water or other fluid with which to wash the mouth or other part of the anatomy, simply press on the bulb 4 until it is flat. Then insert the brush end in the fluid and release the pressure on the bulb 4. The bulb will expand and draw the fluid therein through the opening 9 and the duct 10.

A brush of this description may be used for various other purposes than for brushing the teeth or rubbing the body. Various changes may be made in the size and proportions of the brush above described.

As will be seen from the drawings, the bulb 4 is placed so that the thumb or finger can press thereon to force the water or other liquid wash from the bulb 4 out among the bristles 1 as the brush is being used.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. As a new article of manufacture, a brush comprising a handle having a cavity formed therein, a bulb of elastic material fitted in said cavity, a seat formed in said cavity and a boss on said bulb pressed in said seat and suitable bristles, said brush having a duct leading from the mouth of said bulb to an opening among said bristles.

2. A brush of the character described, having a bulb located in the handle thereof, a seat formed in said handle and a boss formed on

said bulb and pressed in said seat, a ferrule for holding said boss dilated and operative to hold said boss in said seat, and a suitable duct leading from said ferrule to an opening among said bristles.

3. A brush of the character described, having a cavity formed in the handle thereof, the end walls of said cavity being concave, a bulb fitted in said cavity and conforming to the contour thereof, a seat formed in said cavity, a boss formed integral with said bulb and pressed into said seat, means for holding said boss dilated and in said seat, said boss having an opening therethrough, and a duct leading from said opening through said handle to an opening among the bristles of said brush.

4. As a new article of manufacture, a brush comprising a handle having a cavity formed therein, a bulb of elastic material fitted in said cavity and having a mouth communicating with the opening in the bottom of said cavity, provision for retaining said bulb in said cavity and suitable bristles, said brush having a duct leading from the mouth of said bulb to the opening among the bristles.

In testimony whereof I set my hand, in the presence of two witnesses, this 4th day of January, 1904.

ARTHUR HOSMER.

Witnesses:
A. L. JACKSON,
A. P. RHODA.