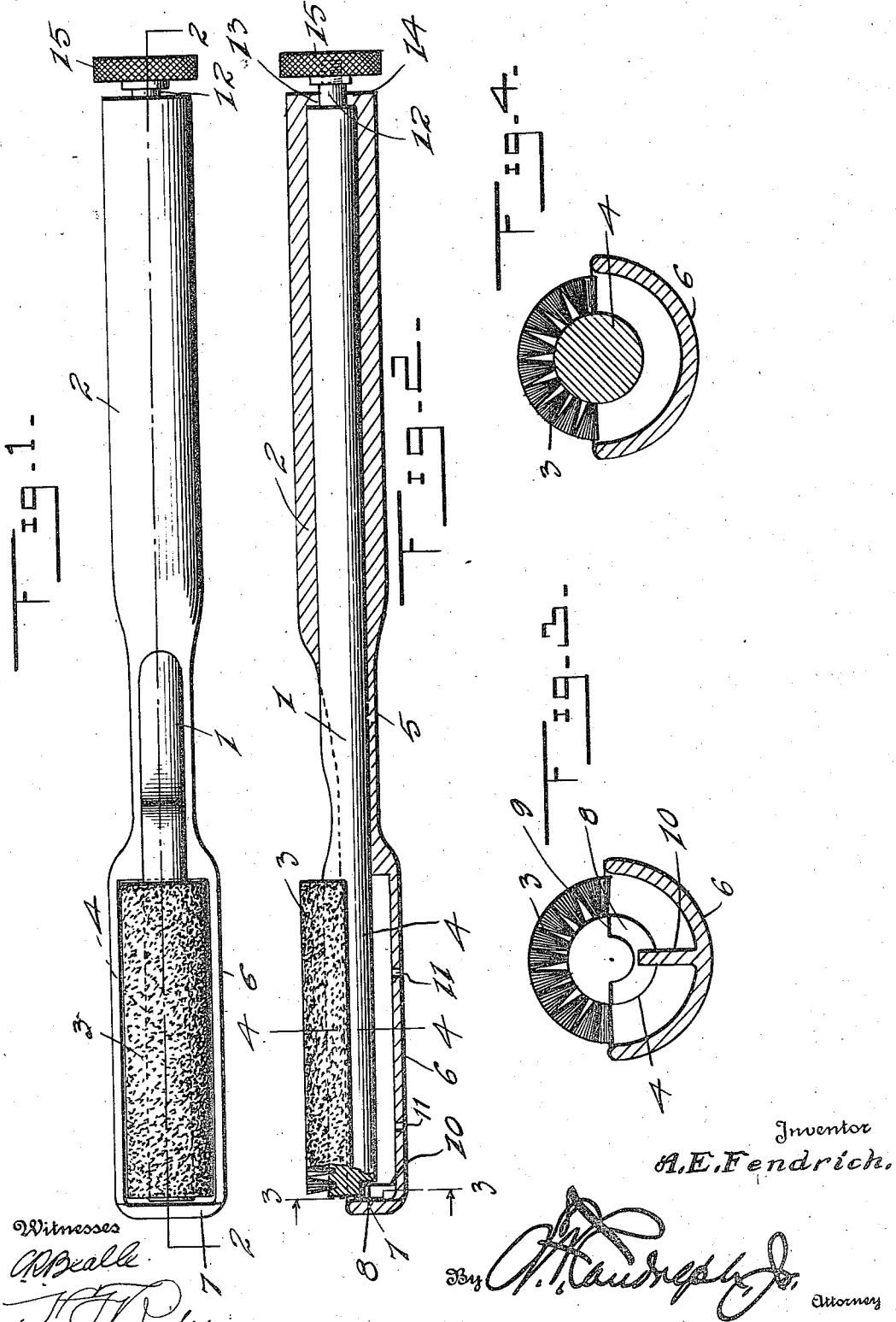
A. E. FENDRICH.

TOOTH BRUSH.

APPLICATION FILED OCT. 30, 1915.

1,227,412.

Patented May 22, 1917.



Witnesses

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ADAM E. FENDRICH, OF WEEHAWKEN, NEW JERSEY.

TOOTH-BRUSH.

1,227,412. Specification of Letters Patent. Patented May 22, 1917.

Application filed October 30, 1915. Serial No. 58,840.

To all whom it may concern:

Be it known that I, ADAM E. FENDRICH, a citizen of the United States, residing at Weehawken, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Tooth-Brushes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to improvements in tooth brushes.

The object of the present invention is to improve the construction of tooth brushes and to provide a simple, practical and comparatively inexpensive tooth brush adapted to brush the teeth with an up and down motion of the bristles of the brush and capable of also protecting the gums and of preventing the same from being injured by the solid portion of the brush head.

A further object of the invention is to provide a sanitary tooth brush of this character capable of easy operation from the end of the handle to produce a partial rotary movement of the bristles alternately in opposite directions.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claim hereto appended, it being understood that various changes in the form, proportion and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing

Figure 1 is a plan view of a tooth brush constructed in accordance with this invention,

Fig. 2 is a longitudinal sectional view of the same,

Fig. 3 is a transverse sectional view on the line 3—3 of Fig. 2,

Fig. 4 is a similar view on the line 4—4 of Fig. 2.

Like numerals of reference designate corresponding parts in the several figures of the drawing.

In the accompanying drawing in which is illustrated the preferred embodiment of the invention, 1 designates a brush member consisting of a bar of any suitable material circular in cross section to rotate within a hollow handle 2 and provided at its outer portion with bristles 3 extending over approximately one-half the surface of the outer portion or head 4. The handle 2 is of tubular form and is provided with a shank or stem 5 connecting the handle with an outer substantially semi-cylindrical shell 6 adapted to form a guard. The substantially semi-cylindrical shell has an end wall 7 which may be secured to the shell after the parts have been assembled or the shell may be constructed in any other desired manner to enable the parts to be assembled.

The outer end of the brush member 1 is provided with a recess 8 forming spaced shoulders 9 which are adapted to engage a lug or projection 10 for limiting the rotary movement of the brush member. The shell or casing 6 is designed to be provided with one or more perforations or apertures 11 for draining and ventilating the tooth brush. The brush member 1 is preferably reduced at its inner end to form a neck 12 which passes through an opening 13 in the end wall or portion 14 of the tubular handle 2 and has secured to it an operating handle or disk 15 by means of which the brush member is partially rotated to cause the bristles of the tooth brush to brush the teeth with an up and down motion. The operating device may be secured to the reduced terminal portion or neck 12 in any desired manner and it will be clear that the tooth brush may be easily held in the hand with the bristles in position for engaging the teeth and that the handle member may be readily operated to cause the bristles to thoroughly brush the teeth and engage the same at the sides thereof as well as the faces of the teeth.

In practice, the tooth brush will be provided with a suitable cover which may be constructed in any desired manner and the handle may be constructed in one or more pieces.

It will be seen that the tooth brush is exceedingly simple in construction and that the shell or casing in which the brush head is rotatively mounted forms a guard and that only the bristles are permitted to come in contact with the teeth.

What is claimed is:—

A tooth brush including a tubular handle provided with a shell or casing of substantially semi-cylindrical form, a rod circular

in cross section and mounted for rotary movement in the tubular handle, said rod or bar extending into the shell or casing, bristles covering a portion of the surface of the rod extending into said shell, said rod being provided with a terminal recess forming opposite shoulders and a stop carried by the shell or casing and arranged to be engaged by said shoulders for limiting the rotary movement of the rod.

In testimony whereof I affix my signature in presence of two witnesses.

ADAM E. FENDRICH.

Witnesses:

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