

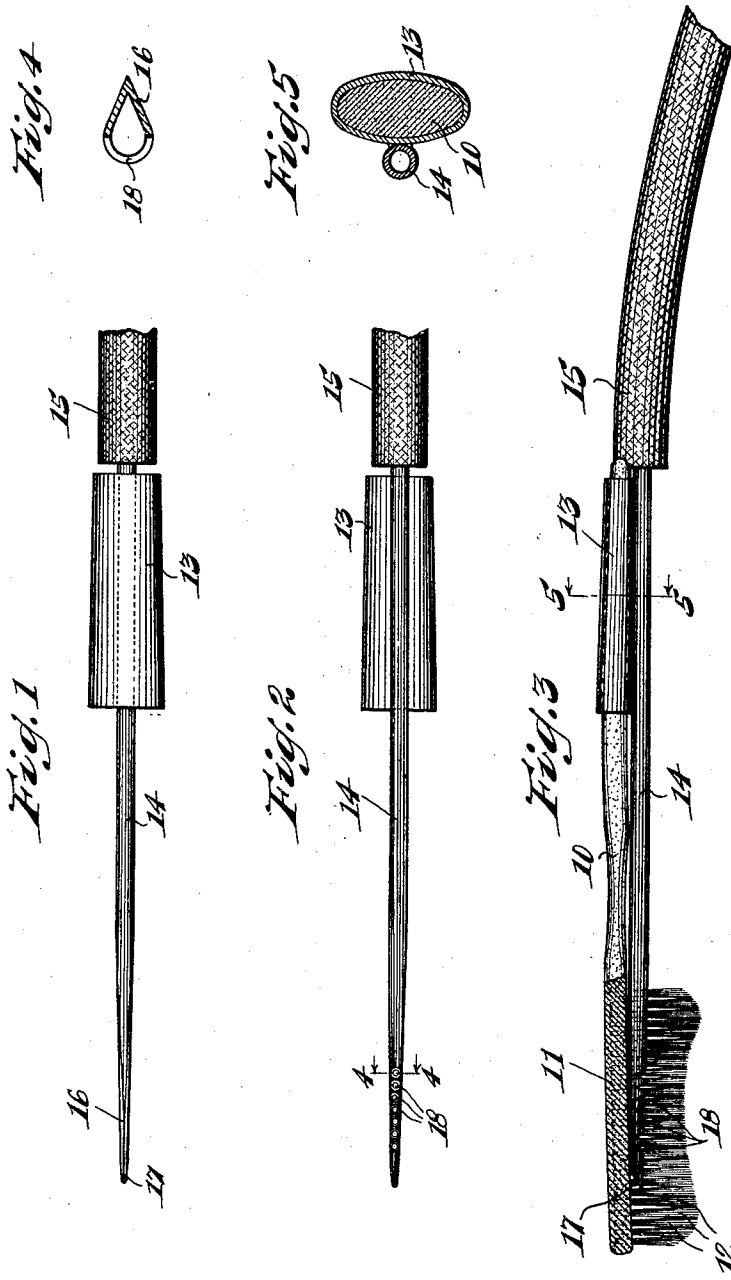
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C. H. FINTON

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TOOTHBRUSH ATTACHMENT

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Witnesses:

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UNITED STATES PATENT OFFICE

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TOOTHBRUSH ATTACHMENT

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This invention relates to tooth brush attachments and it has for its object to produce a simple and practical fountain attachment which may be readily applied to an ordinary tooth brush.

Other objects and advantages to be attained will hereinafter more fully appear.

The invention consists in the novel construction and in the parts and combinations and arrangements of parts hereinafter described and claimed.

In the accompanying drawings illustrating a practical adaptation of the invention,—

Fig. 1 is a top plan view of the fountain device detached from the brush;

Fig. 2 is an inverted plan view of the device;

Fig. 3 is a view, partly in side elevation and partly in longitudinal section, showing the attachment applied to an ordinary tooth brush;

Fig. 4 is a cross-section on line 4—4 of Fig. 2; and

Fig. 5 is a view on an enlarged scale, it being a cross-section taken substantially on the line 5—5 of Fig. 3.

Referring now to the drawings, the numeral 10 designates the handle portion of an ordinary tooth brush, said handle having at its forward portion a brush head 11 whose bristles 12 may be arranged in any desirable manner and according to the well known structures on the market.

The fountain device comprises a tubular socket portion 13 which is preferably elliptical in cross section and slightly tapered for the reception of the handle portion 10 of the tooth brush. However, this socket portion may be varied in form for the accommodation of brush handles of different shapes and, obviously, other socket or holding arrangements may be provided in lieu of the tubular member shown.

Secured to the socket member 13, as by welding or by any other suitable means of attachment, is a nozzle pipe 14. This pipe 14 is attached to the end portion 15 of a flexible tube or rubber hose, which latter, in practice, is attached to a faucet or other tap at the source of a water or other liquid supply. The

forward end portion of the nozzle tube 14 is closed except for the special discharge orifices to be presently described. This end portion of the nozzle pipe is tapered to a rather sharp point so that it readily penetrates between the bristles 12 of the brush head 11 and the side of the tube which comes adjacent to the brush head is preferably beveled or tapered transversely so as to be substantially wedge shape as at 16 and best shown in Fig. 4 of the drawings.

The extreme end portion of the nozzle pipe 14 is also preferably beveled so that a rather well defined point 17 is provided. Thus the pipe more readily enters between the bristles and yet said point 17 is projected away from the face of the head 11 in which the bristles are imbedded, and so as not to have a tendency to dig into the adjacent face portion of the head.

Any suitable outlet openings or jet orifices may be provided in the nozzle pipe 14. However, it is preferable to provide a multiplicity of minute apertures 18 by cross cutting or filing the tube 14 with a series of closely arranged substantially V-shaped cuts (see Fig. 3).

By the provision of a device of the character of the present invention, the water or other liquid is forced into the effective scrubbing portion of the brush head and the brush is kept in a clean and sanitary condition. The arrangement of the nozzle tube 14 on the inner side of the handle makes the device more practical in its application to the brush and affords no protuberance on the outside of the head portion which might interfere with the manipulation of the brush in the mouth when brushing the teeth.

Obviously, the device admits of considerable modification without departing from the spirit and scope of the invention as defined by the appended claims.

The invention, therefore, is not limited to the specific structures shown in the accompanying drawings.

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

1. The combination with a tooth brush, of

a fountain attachment comprising a socket member in which the handle of the brush is detachably secured, and a nozzle pipe secured to said socket member with its end portion inserted between the bristles of the brush head.

2. The combination with a tooth brush, of a fountain attachment comprising a socket member in which the handle portion of the brush is detachably secured, a nozzle pipe secured to said socket member, said nozzle pipe having a tapered outer end portion provided with jet orifices and being insertable between the bristles in the brush head.

3. A fountain attachment for tooth brushes and the like, comprising a nozzle pipe having means for detachably securing it to the handle of a tooth brush on the bristle side of the latter, the outer end portion of said nozzle pipe being substantially wedge shape in cross section and tapered longitudinally, said end portion of the pipe being provided with a discharge outlet in its side.

4. In a fountain attachment for tooth brushes, a socket member for the reception of the handle portion of a tooth brush, a nozzle tube secured to said socket member and extending longitudinally therefrom on the bristle side of the brush, the outer end portion of said nozzle pipe being tapered longitudinally and beveled transversely whereby to be substantially wedge shape in cross section, and with its relatively sharp edge portion disposed towards the base of the brush head, said outer end portion being provided on its side away from the brush head with minute jet orifices.

5. The combination with a brush, of a fountain attachment comprising a socket member in which the handle of the brush is detachably secured and a nozzle pipe secured to said socket member provided with jet orifices with its end portion inserted in the body of bristles of the brush head.

In testimony whereof I have signed my name to this specification.

CHARLES H. FINTON.

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