J. F. FOUYER.

TOOTH BRUSH.

APPLICATION FILED OCT. 14, 1913.

1,132,326.

Patented Mar. 16, 1915.

Fig 1.

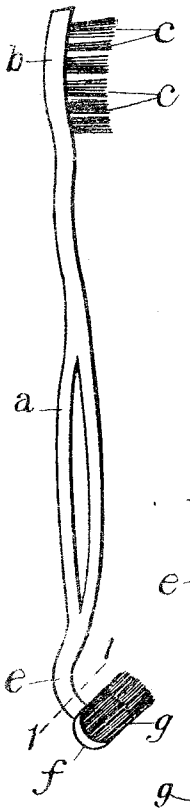


Fig. 2.

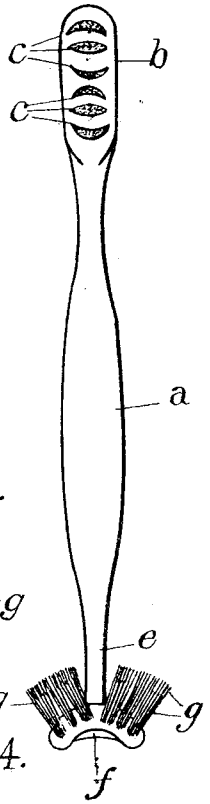


Fig. 3.

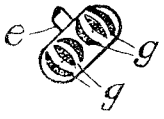
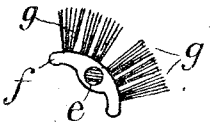


Fig. 4.



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Witnesses

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UNITED STATES PATENT OFFICE.

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TOOTH-BRUSH.

1,132,326. Specification of Letters Patent. Patented Mar. 16, 1915.

Application filed October 14, 1913. Serial No. 795.052.

To all whom it may concern:

Be it known that I, JOSEPH FERDINAND FOUYER, a citizen of the Republic of France, residing at 156 Rue de Paradis, Marseille, Bouches-du-Rhône, in the Republic of France, have invented certain new and useful Improvements in Tooth-Brushes, of which the following is a full, clear, and exact description.

The present invention relates to a new tooth brush, and the special arrangement of the bristles of which enable the teeth to be cleaned perfectly and rationally, not only on the outer surface, but particularly on the inner surface.

The annexed drawing illustrates by way of example this new type of brush, the dimensions of which may vary accordingly as it is to be used by adults or by children.

Figure 1 is a side view. Fig. 2 is a front view. Fig. 3 is a front view of the bent part of the end of the brush, intended to show the arrangement of the clusters of bristles. Fig. 4 is a plan of this bent end seen from the line 1—1 in Fig. 1.

The form of the handle *a* enables the brush to be firmly held without its being able to slip between the fingers. The end *b* is slightly curved in so as to move the lips slightly apart and to enable the brush to be applied easily to the jugal faces of the incisor, canine, pre-molar and large molar teeth and to brush them thoroughly. The face of this end *b* carries clusters of bristles *c c*, arranged in a special manner, as shown in Fig. 2. This arrangement of the bristles is very important as it enables particles of food and the tartar that may lodge between the clusters of bristles to be removed in any direction. The cleaning of the brush is then effected easily by means of running water which removes all these particles. This arrangement has another appreciable advantage which is that of enabling the bristles of the brush to dry almost immediately. The other end *e* of the handle of the brush is considerably bent and terminates in a convex piece *f* on which clusters of bristles *g g* are arranged in the same manner as for the end *b*. This end *e* is intended to prevent the handle of the brush from rubbing the triturating surface of the teeth during the cleaning. This has an appreciable advantage because the wearing of the enamel which is a cause of caries, and sensitiveness of the dental tissue, is thus avoided. Moreover, the bending of the piece *f* has likewise an important advantage as this form enables the brush to be perfectly applied to the back face of the lower jaw. The brushing of this essential part of the teeth can thus be effected in a normal and rational manner without the mouth being opened too wide and without affecting the triturating face of the teeth. The form of this piece and the arrangement of its bristles enables the teeth to be brushed on all their interior faces, where the tartar is particularly sheltered by the tongue and where the saliva constantly stays which is one of the principal causes of the formation of tartar.

The handle of this brush may be made of metal, aluminium, nickel, silver, gold, etc., or of any material whatever, wood, horn, bone, ivory.

Having thus described my invention what I claim is:

In a tooth brush having a suitable handle, bristles arranged in spaced, compact clusters, said clusters being arranged to form two spaced, crescent shaped groups whose concave sides face but do not touch each other and a double convex pointed group, there being one crescent shaped group on each side of, and facing said double convex pointed group, said grouping being repeated as desired.

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

JOSEPH FERDINAND FOUYER.

Witnesses:

BENJAMIN GOUTAL,

ALTON MACFARLANE.