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BRUSH HOLDER

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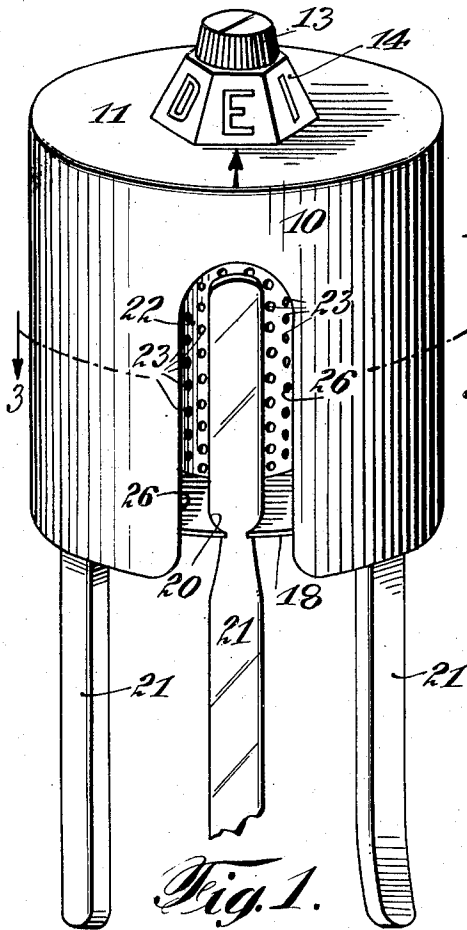


Fig. 1.

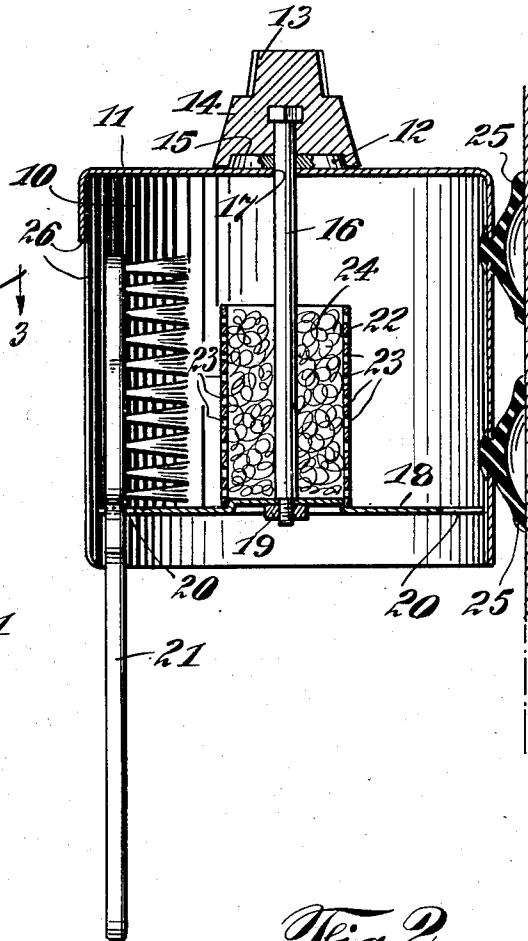


Fig. 2.

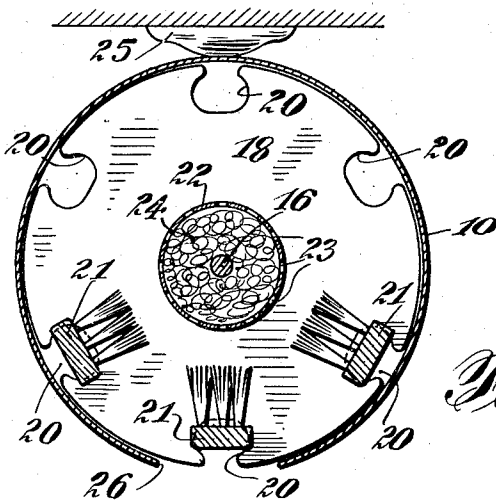


Fig. 3.

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## UNITED STATES PATENT OFFICE

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## BRUSH HOLDER

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## 1 Claim. (Cl. 206—15.1)

My invention relates to holders and refers particularly to holders adapted for the retention of tooth-brushes and similar articles.

One of the objects of my invention is a device adapted for the retention of tooth-brushes and similar articles in a disinfecting medium.

Another object of my invention is a device adapted for the retention of a plurality of tooth-brushes and similar articles and so constructed that individual articles retained therein may be readily identified.

Another object of my invention is a device adapted for the retention of tooth-brushes and similar articles and so constructed that the articles may be readily placed therein and readily removed therefrom.

Another object of my invention is a device in which water contained within articles placed therein will be automatically removed therefrom. The objects mentioned and other valuable features of my device will be evident upon a consideration of my specification and its accompanying drawing.

Tooth-brushes, even if rinsed after use, are liable to contain deleterious matters which are subject to decomposition and decay, thus causing the later introduction of injurious matters into the mouth.

Tooth-brushes are frequently placed upon the wash-stand, or other surface, after use, thus subjecting them to the deposition of dust and other objectionable matters, and if not properly placed, the water remains in the bristle-part of the brushes.

Frequently a number of persons will employ tooth-brushes at the same wash-stand, thus offering an opportunity of confusion of the brushes unless they are individually marked or otherwise identified.

My device overcomes the above mentioned and other objectionable features incident to the ordinary use of tooth-brushes and presents means whereby the decomposition of deleterious matters is prevented, the brushes prevented from the accumulation of dust, the water is drained therefrom and the identification of the brushes is insured.

In the accompanying drawing illustrating one form of the device of my invention, similar parts are designated by similar numerals.

Figure 1 is a perspective view of one form of the device of my invention.

Figure 2 is a vertical central cross-section of Figure 1.

Figure 3 is a section through the line 3—3 of Figure 1.

The form of my device shown in the accompanying drawing consists of a cylindrical casing 10 having the fixed upper closure-forming cover 11 and being open at the bottom. Fixedly attached to the outer face of the cover 11 is an annular guide member 12 forming a boss and having a central opening therein. An operating member consists of the truncated conical member 13 and the truncated hexagonal pyramidal member 14. The lower face of the member 14 has an annular recess 15 capable of placement over the guide-member 12, the operating member being thus capable of revolution around the guide-member 12. Fixedly attached to the operating member and movable therewith is a shaft 16 which passes through the central opening of the guide-member 12 and an aligned opening 17 in the cover 11. The lower portion of the shaft 16 passes through an opening in a brush-supporting plate 18 and is fixedly attached thereto by means of the nut 19. The plate 18 has a plurality of marginal recesses 20—20, each capable of holding a tooth-brush 21 as shown.

The extended bearing formed for the shaft 16 through the cover 11 and member 12, together with the snug fit of the recess 15 of the member 14 over the member 12, holds the shaft 16 steady against lateral swinging movement, the plate 18 being suspended by the shaft 16 from the member 14 which is supported upon the member 12. This construction prevents the radially outer edge portions of the thus suspended rotatable plate 18 from frictionally scraping against the inner face of the cylindrical casing 10.

Attached to the plate 18 and surrounding the shaft 16 is a foraminous cylindrical disinfecting chamber 22, forming an upright receptacle, the side of which is perforated 23, 23, the chamber being adapted to receive a disinfecting material 24. The chamber 22 is closed at the bottom by the plate 18 and is open at the top, for the convenient reception of the disinfecting material 24. Fixedly attached to one side of the casing 10 are a plurality of rubber suction cups 25, 25 for purposes of attaching the device to a wall, although I do not limit myself to this particular means of support as it is evident my device may be supported by a plurality of legs attached to the casing 10. The casing 10 has an opening 26 through its side and extending downwardly through its lower edge, for purposes described later. The faces of the member 14

carry a plurality of identification letters, numbers or other insignia.

The operation of my device is as follows:—

The person whose brush is identified by the letter E, removes the brush and after using it replaces it as shown in Figure 1. By a slight revolution of the operating member 13, the plate 18 and the brushes carried by it are revolved until no brush is visible through the opening 26 of the casing 10. When the device is in this position all of the brushes are subjected to the disinfecting gas emanating from the disinfecting material 24 and they are also protected from the deposition of dust. When the person whose brush is designated by the letter D wishes to use his brush, the operating member 13 is revolved until the letter D appears above the opening 26, at which time the brush is available for use.

Thus the dissimilar movable insignia, or indicia, have a co-operative relation with the vertically elongated slotted opening 26 in the side of the stationary casing 10, as well as also similarly with the intermediary or interposed arrow mark upon the stationary casing cover 11. Since the brush-holding plate 18 partakes of the movement of the member 14, the brushes 21—21 always have the same position relatively to the movable indicating insignia, but have a changeable position relatively to the casing opening 26. It is evident that

the brushes 21—21 may carry identifying insignia in conformity with the insignia carried by the member 14, if so desired.

It will thus be seen that my device presents a means for disinfecting the carried brushes, protecting them from the deposition of dust etc. and preventing the possibility of confusion among the brush owners.

I do not limit myself to the particular construction shown and described, as this is given simply as a means for clearly describing my invention.

What I claim is:—

In a brush holding device, in combination, a casing having no bottom member and comprising a side member and a top closure member fixedly attached thereto and having a vertical elongated recess in the side thereof allowing of the horizontal removal of brushes from within the device; a revoluble shaft carried by said top closure member and extending upwardly and outwardly from said top closure member; a supporting disk fixedly attached to the lower portion of said shaft and having a plurality of recesses extending inwardly from its periphery, and an open receptacle supported by and above said disk and surrounding a portion of said shaft between said disk recesses.

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