May 12, 1931. M. KADEN 1,805,366

TOOTHBRUSH AND TUMBLER RACK

Filed Nov. 28, 1927

Fig. 1

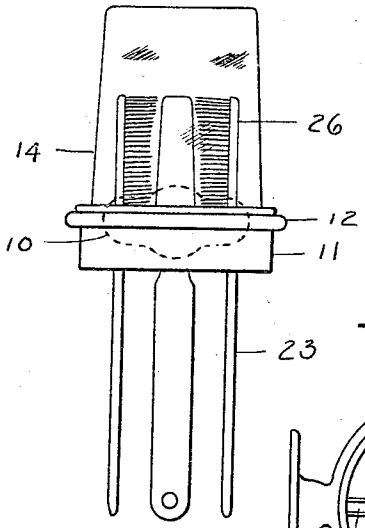


Fig. 2

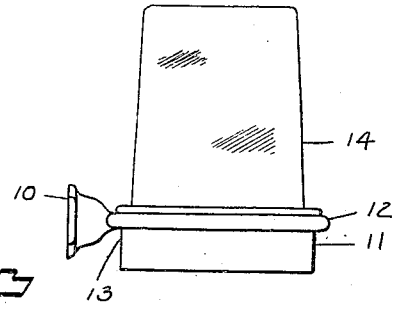


Fig. 3

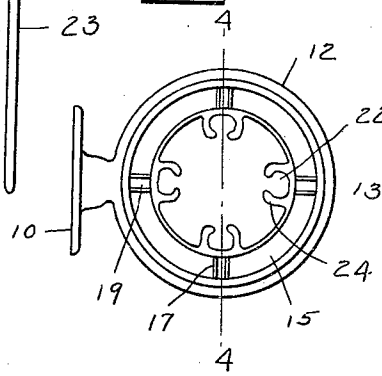


Fig. 4

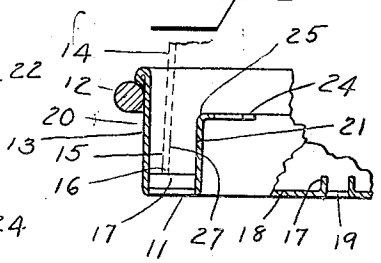


Fig. 5

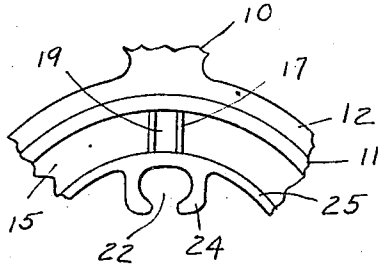


Fig. 6

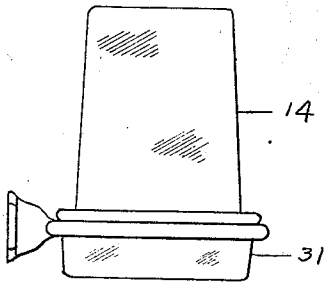


Fig. 7

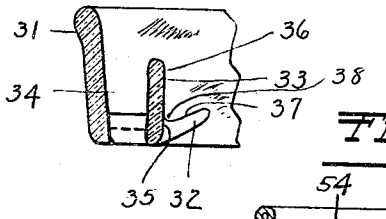
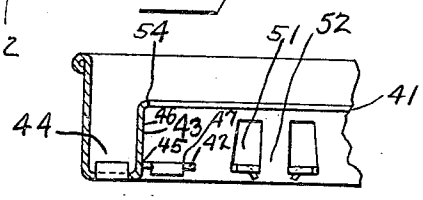


Fig. 8



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UNITED STATES PATENT OFFICE

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TOOTHBRUSH AND TUMBLER RACK

Application filed November 28, 1927. Serial No. 236,126.

My invention relates to improvements in tooth brush and tumbler racks in the form of a bath-room fixture, comprising a suitable supporting bracket and a rack structure that is supported thereby and which rack structure serves to support a tumbler and also a plurality of tooth brushes, and the object of my improvement is to so construct the tooth brush and tumbler rack that the rack structure or body of annular form is separably mounted upon the bracket; that has a trough or the like for receiving the edge portion of the tumbler and which trough has lugs or the like on the bottom for supporting said edge portion in raised position and also is provided with openings for ventilation; and that, furthermore, is constructed and arranged so that the brush-heads or active bristle end portions of the tooth brushes are housed within the space that is enclosed by the tumbler when in the inverted position and with the edge portion entered within the trough.

In the accompanying drawings:—

Figure 1 is a front elevation of my improved tooth brush and tumbler rack embodying my invention and showing a tumbler and a plurality of tooth brushes supported thereby.

Figure 2 is a side elevation of the same.

Figure 3 is a plan view of the same.

Figure 4 is a fragmentary sectional view on an enlarged scale on the line 4—4 of Fig. 3.

Figure 5 is a fragmentary view of the bracket and part of the supporting ring shown in plan view.

Figure 6 is a side elevation on the same scale as Fig. 2 of a modification.

Figure 7 is a sectional view on an enlarged scale of part of the same.

Figure 8 shows another modification.

My improved tooth brush and tumbler rack is in the form of a bath-room fixture that has a bracket 10 in the particular form that is shown by which it can be supported from the side wall or the like and the rack structure 11 that is supported thereby is of annular form and the separable connection between these parts is provided in the form of a ring 12 within which said rack structure 11 fits by its periphery 13.

In the form that is shown in Figs. 1 to 5 inclusive the rack structure 11 is made of sheet metal and comprises as the means for receiving and supporting the tumbler 14 a trough 15 of annular form and into which the edge portion 16 of said tumbler 14 is received.

The actual support for said edge portion 16 is a plurality of lugs 17, as shown, or any form of upward projection from the bottom 18 of the trough 15 so that said edge portion 16 is spaced from said bottom 18. A plurality of ventilating openings 19 is also provided in said bottom 18 that serve in particular to provide means for air circulation for the trough 15.

The tumbler supporting lugs 17 are provided in a convenient manner by material that is forced laterally in forming the ventilating openings 19.

Extending upwardly from the bottom 18 on the outside is the outer wall 20 that engages with the supporting ring 12 and on the inside is the inner wall 21.

The housing recesses 22 for the tooth brushes 23 are provided by suitably shaped and spaced horns 24, arranged in pairs, and which are integral with the upper edge portion 25 of the inside wall 21.

The horns 24 project inwardly from the inside wall 21, so that the tooth brushes 23 are supported thereby in pendant position by their heads or bristle ends 26 substantially in the usual manner, except that in the present instance said heads 26 are located within the space that is enclosed by the side wall 27 of the tumbler 14 and in slightly spaced relation to said wall 27.

As shown, there are four tooth brush receiving recesses 22, distributed around at ninety degree intervals, and the ventilating openings 19 are located individually radially just outside of said recesses 22.

In the structure described the tumbler serves as a housing for the tooth brushes and also permits of ready selection of any individual tooth brush that may be desired as the heads 26 are visible through the transparent wall 27 of the tumbler 14.

In the modification that is shown in Figs. 6 and 7 the rack structure 31 is made of

glass. In this structure the tooth brush supporting horns 32 project inwardly from the inside wall 33 of the trough 34, but from the lower edge portion 35 thereof. Thus the major portion 36 of the inside face of the inside wall 33 extends upwardly from the upper supporting edge or face 37 of the horns 32. Said major upper portion 36 meets the several supporting faces 37 in a corner 38, and is positioned so as to serve as a backing or stop for the opposed heads 26 of the tooth brushes 23 that are supported by the said horns 32. Thus the upper portion 36 of the wall 33 for the trough 34 serves as limiting means for the tooth brushes to prevent contact thereof with the opposed and adjacent side wall 27 of the tumbler 14.

The supporting faces 37 of the horns 32 are preferably inclined so as to tend to have the tooth brushes supported thereby slide towards the corner 38 and against the opposed and adjacent limiting or stop wall 36.

By having the rack structure removable from the supporting bracket in the manner described the rack can be readily cleaned and sterilized in any manner desired.

The structure is compact and convenient for use.

In the modification that is shown in Fig. 8 the rack structure 41 is made of sheet metal. The supporting horns 42 project inwardly from the inside wall 43 of the trough 44, but from a portion 45 thereof that corresponds substantially to the bottom edge thereof. Thus the major portion 46 of the inside face of said inside wall 43 extends upwardly from and is above the upper faces 47 of the horns 42 and forms a corner therewith. The horns 42 may be bent at any angle desired for positioning the tooth brushes towards the inner edge portions of the individual receiving recesses 52. The horns 42 are provided in the form of tongues that are formed from the material of the side wall 43, by cutting generally along three sides and forcing the material inwardly and bending along the fourth side, thus leaving an opening 51 in the inside wall 43 corresponding to each of said tongues or horns 42. At the top edge of the inside wall there may be an inwardly directed lip or flange 54 that is positioned so as to serve as the backing proper for the heads of the tooth brushes under conditions of use.

I claim as my invention:—

1. A tooth brush holder comprising a cylindrical wall that is provided with inwardly directed means for supporting a tooth brush, a second cylindrical wall spaced from said first mentioned wall and supported therefrom by means of an intermediate platform of annular form, and a ring engaged with the periphery of said second wall serving as the support for said holder.

2. In a tooth brush holder, a tooth brush support of annular form of appreciable depth, provided with tooth brush engaging means within the opening, and having the upper end portion of the periphery enlarged relatively to lower major body portion, and a ring support of wire adapted to slip along said lower major body portion and make supporting engagement with said upper end portion.

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