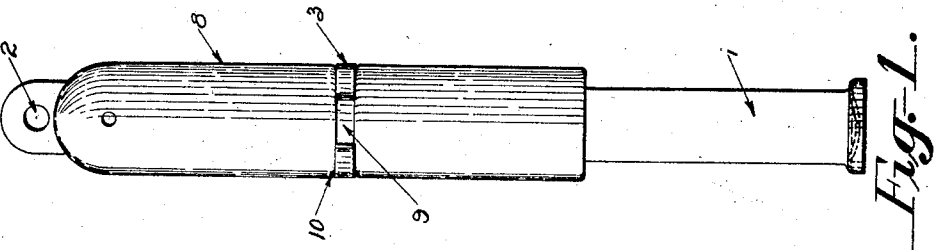
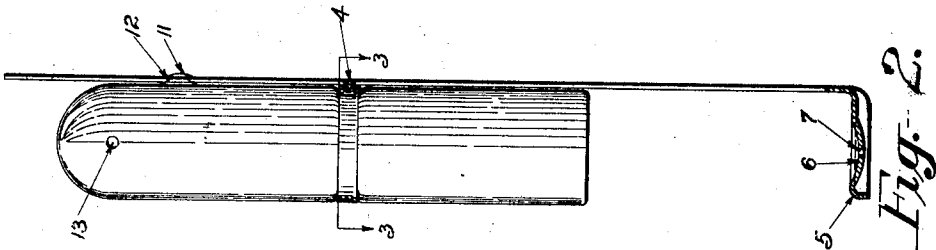
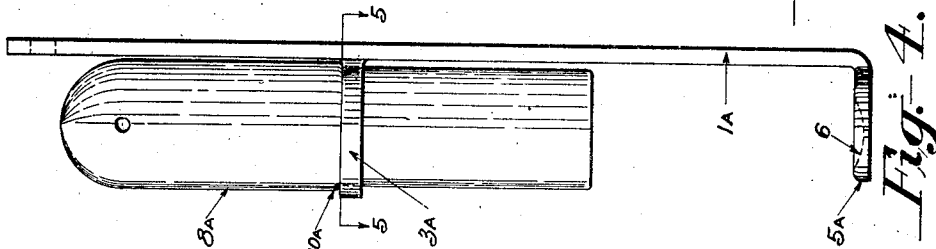
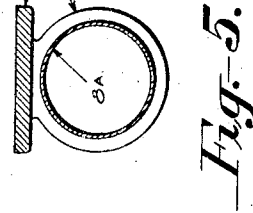
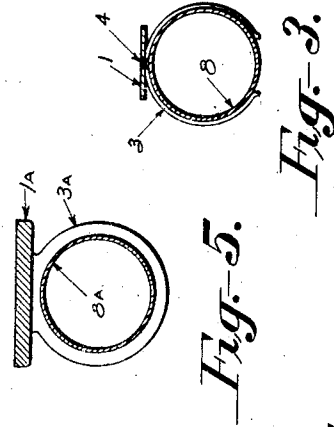
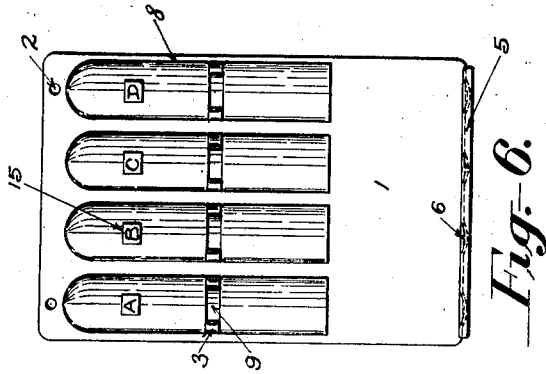


W. L. SMITH.
TOOTH BRUSH HOLDER.
APPLICATION FILED JUNE 7, 1912.

1,050,864.

Patented Jan. 21, 1913.



WITNESSES

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TOOTH-BRUSH HOLDER.

1,050,864.

Specification of Letters Patent.

Patented Jan. 21, 1913.

Application filed June 7, 1912. Serial No. 702,196.

To all whom it may concern:

Be it known that I, WESLEY LINFORD SMITH, a resident of Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Tooth-Brush Holders, of which the following is a specification.

This invention relates to tooth brush holders.

10 The object of the invention is to provide a simple, inexpensive and sanitary holder arranged for the ready insertion and removal of the brush, and which protects the brush from dirt, dust, germs, etc.

15 The invention comprises the construction and arrangement of parts hereinafter described and claimed.

In the drawings Figure 1 is a front elevation of one embodiment of the invention; 20 Fig. 2 is a side view, partly in section, of the same; Fig. 3 is a cross section on the line 3—3, Fig. 2, looking in the direction of the arrows; Fig. 4 is a view, corresponding to Fig. 2, of a different form of holder; Fig. 25 5 is a cross section of the same on the line 5—5, Fig. 4; and Fig. 6 is a front elevation of a multiple holder.

The holder shown in Figs. 1 to 3 comprises a base or support 1, formed of a strip 30 or plate of thin metal, as brass, steel or the like, and provided at or near its upper end with suitable means for fastening it to the wall, as for example an aperture 2. Below the upper end of the support is a bracket 3, 35 comprising a split ring of yielding or springy metal riveted, soldered or otherwise secured to the support 1, as at 4. At or near its lower end the base or support 1 is bent or pressed out at right angles to itself 40 to form a dish shaped ledge or shelf 5 having a central depression 6 to receive the lower end of the tooth brush handle and provided with a small drainage opening 7 therethrough. The rim of the ledge may be 45 flanged downwardly, as shown, to add to the ornamental appearance of the device. Within the bracket or ring 3 is mounted a cover or protector 8 for the tooth brush. This comprises a tube of glass or other sanitary 50 material, closed at its upper end and open at its lower end, and somewhat resembling an ordinary test tube. The protector 8 is placed in position in the bracket 3 by merely pushing it in from the front, 55 the arms of the bracket yielding sufficiently to permit this and being of such strength

as to hold the tube firmly in position and quite close to the base or support. To prevent the tube from dropping out, however, it may be slightly indented or constricted, 60 to provide an annular depression 9 to receive the embracing arms of the split ring 3, the upper shoulder 10 of the depression resting upon the bracket 3. To prevent rotation of the tube in the bracket the base or support 65 is provided with a slight depression or pocket 11 to receive a small teat or projection 12 upon the tube 8, which may be formed, for example, by heating a restricted 70 portion of the material of the tube with a blow pipe and blowing thereinto to expand the glass outwardly.

Figs. 4 and 5 show a modified form of the invention in which the base or support 1^a is 75 somewhat thicker than that shown in Fig. 1 and is made of cast metal, the ledge or shelf 5^a being either integral with or secured to the lower end of the support and provided with the socket or depression 6. With this form of the invention the bracket 3^a is preferably 80 integral with the base and comprises a continuous ring which completely surrounds the tube or protector 8^a. To prevent the tube from dropping out of the holder, the tube or protector 8^a is of slightly greater 85 diameter at its upper portion than at its lower portion to form a shoulder 10^a to rest upon the upper portion of the ring 3^a, the lower portion of the tube being of such diameter as to snugly fit within the ring. 90

The tooth brush is placed in the holder by inserting it endwise upwardly into the lower end of the tube or protector until the lower end of its handle can be placed in the socket of the shelf 5 or 5^a, the shelf being 95 made of a width substantially equal to the diameter of the housing 8 or 8^a, so this can be readily accomplished. When in this position the bristle portion of the brush is wholly surrounded by or inclosed within the 100 protector, the deposit of dirt or germs thereupon being thereby prevented. Water or moisture on the brush runs down along the handle and is drained out through the opening 7. 105

The holder is easily cleaned by removing the protector from its bracket, when it may be washed or cleansed in any suitable manner and the whole, including the tube and base, can be sterilized in any approved way. 110

With either form of the invention shown the tube or protector, if desired, may be

formed at or near its upper end with one or more small apertures 13 therethrough to permit free circulation of air through the tube to ventilate the same, although this is not essential.

The tooth brush holder shown in the drawings may be formed either singly or in multiple to accommodate the needs of different families. Figs. 1 and 4 show the holder arranged to accommodate but a single tooth brush. Fig. 6 shows a holder provided with accommodations for four tooth brushes. This holder comprises a wide flat base or support 1 having one or more means 2 to secure it to the wall and provided at its lower end with a continuous ledge or shelf 5^b having spaced depressions 6 therein to receive the ends of the several brush handles. Brackets 3 are also formed on the base or support to hold the tubes 8 above the respective sockets 6. The multiple holder may be constructed according to either of the forms shown in Figs. 1 and 3, and is shown as formed of pressed metal like the form of Fig. 1. Obviously, it may also be arranged to support any number of brushes, as for example, two, three, four, six, etc. To enable the brushes of different members of the family to be distinguished one from the other each tube or protector 8 may be provided with a suitable distinguishing mark.

The holder illustrated is extremely simple and comprises but few parts. In the form shown in Fig. 1 the base or support 1 and ledge 5 are made of a single piece by simple punching and stamping operations. Both forms of the invention are inexpensive and can be readily cleansed when it is desired. The holder supports the tooth brush in upright position and prevents contact of the bristles with anything other than the sanitary and cleanly material of the protector 8. The brush is entirely inclosed and it is practically impossible for dirt or germs to be deposited thereupon.

What I claim is:

1. A tooth brush holder comprising a vertical support arranged to be secured to the wall, a tubular housing open at its lower end and closed at its upper end rigidly held by said support, and a horizontal ledge or shelf continuous with said support and projecting therefrom below the lower end of said tubular housing and arranged to support the lower end of the handle of a tooth brush inclosed in said housing, the width of said ledge or shelf being substantially equal to the diameter of said tubular housing.

2. A tooth brush holder comprising a

support, a bracket on said support, a tubular housing open at its lower end and closed at its upper end rigidly held in said support, interengaging parts on said tubular housing and said support arranged to prevent rotation of said housing in said bracket, and a ledge or shelf on said support below the lower end of said housing and arranged to support the lower end of the handle of a tooth brush inclosed in said housing.

3. A tooth brush holder comprising a support, a bracket thereon, a tubular housing in said bracket having a shoulder resting thereon and open at its lower end and closed at its upper end, and a ledge or shelf on said support below the lower end of said tubular housing and arranged to support the lower end of the handle of a tooth brush inclosed in said housing.

4. A tooth brush holder comprising a support, a bracket thereon, a tubular housing having an annular groove or depression forming shoulders, one resting on said bracket and the other beneath the same, said tubular housing being open at its lower end and closed at its upper end, and a ledge or shelf on said support below the lower end of said housing and arranged to support the lower end of the handle of a tooth brush inclosed in said housing.

5. A tooth brush holder comprising a support, a plurality of tubular housings carried by said support, each of said housings being open at its lower end and closed at its upper end and provided with a distinguishing mark, and a common horizontal ledge or shelf at the bottom of said support and projecting outwardly therefrom and arranged to support the ends of the handles of tooth brushes held in said several housings, the width of said shelf being substantially equal to the diameter of said housings.

6. A tooth brush holder comprising a support, a plurality of tubular housings carried by said support, each of said housings being open at its lower end and closed at its upper end and provided with a distinguishing mark, means connected to said support for supporting the lower ends of the handles of tooth brushes held in said housings, and means arranged to prevent rotation of each of said housings in said support.

In testimony whereof, I have hereunto set my hand.

WESLEY LINFORD SMITH.

Witnesses:

I. H. KLINE,

F. W. WINTER.