UNITED STATES PATENT OFFICE.

WALTER MILLER, OF BEAVER FALLS, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO JAMES S. MILLER, OF BEAVER, PENNSYLVANIA.

TOOTH-BRUSH HOLDER.

1,139,134.


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To all whom it may concern:

Be it known that I, WALTER MILLER, a citizen of the United States, and a resident of Beaver Falls, in the county of Beaver and State of Pennsylvania, have invented a new and useful Improvement in Tooth-Brush Holders, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front view of one form of my improved tooth brush holder. Fig. 2 is a vertical section through Fig. 1. Fig. 3 is a transverse section on the line III—III of Fig. 1. Fig. 4 is a view similar to Fig. 2 showing a modified form of holder; and Fig. 5 is a front view of a portion of a holder of another form.

This invention relates to an improvement in sanitary tooth brush holders, and is designed to provide a cheap and efficient device of this character which is neat in appearance and is arranged to move the tooth brush upwardly out of the holder when the cover is raised.

Another object of my invention is to provide a device in which the brush or brushes are properly inclosed so as to prevent dust and dirt coming in contact therewith. Further from the provision of means for permitting the brushes and holders to be properly drained and thereby prevent the brushes and holders from becoming sour or mildewed.

The precise nature of my invention will be best understood by reference to the accompanying drawings, which will now be described, it being premised, however, that changes may be made in the details of construction and the general arrangements of the parts without departing from the spirit and scope of my invention as defined in the appended claims.

Referring to the structures shown in Figs. 1 to 3, the reference character 2 designates a holder 2 having a plurality of compartments 3, which are open at the top and bottom. The case 2 is provided with a rearward extension 4 having top and bottom flanges 4a and 5 respectively, and extending from these projections are securing lugs 6. Hinged to lugs 7 on the case is a cover 8, and movably mounted in the lower end of each compartment is a bottom 9, there being sufficient space between the edge of each bottom and the walls of the compartments to permit any water within the compartments to drain off through the open bottom, and to permit air to freely circulate into the compartments to dry the brushes contained therein. Connected to each of the bottoms 9 is a rod 10 which is bent upon itself and extends upwardly through openings in the flanges 4a and 5, and engages the under face of the cover 8. The arrangement being such that when either of the rods 10 is elevated to raise the brush in that particular compartment, the cover 8 will be elevated as shown in dotted lines in Fig. 2.

In the construction shown in Figs. 1 to 3, each of the rods is provided with a laterally bent portion 11 which is arranged to prevent the rods dropping below the position shown in Fig. 2.

By carrying the rods downwardly and then bending them upon themselves the rods can be carried up in back of the compartments, so that no metal parts are within the compartments to contact with the brush.

In the construction shown, I have provided a compartment 12 for receiving a can of tooth powder, which is also provided with an opening 12a so that no water will remain in the compartment. At the right hand side of the figure I have indicated a holder 13 for receiving a paste tube 14, in which it is held in an inverted position, so that the cap 15 thereof can readily be removed without taking the tube from the holder, and after the cap has been removed the under end of the tube can be squeezed to eject the proper amount of paste for the brush.

In Fig. 4 I have shown a construction similar to that shown in Figs. 1, 2 and 3, with the exception that the rods 10a are pivotally connected to the cover at their upper ends. In this construction the rod 10a is provided with a laterally extending projection 16 which is arranged to hold the cover in its elevated position if the rod is pushed far enough so that the projection passes through the opening in the bottom flange 5.

If desired the rods 10, shown in Fig. 2, may also be provided with a projection similar to that shown in Fig. 4, to retain the cover in its elevated position when the rods are moved upwardly.
In Fig. 5 I have shown a construction similar to those already described, but in which case I have provided a cover 93 for each compartment.

The advantages of my invention result from the provision of a tooth brush holder open at both ends, and which is provided with a movable cover and bottom which are arranged to be raised simultaneously, and in which the actuating devices connecting the cover and bottom are outside of the compartment so that the brush will not contact with any metal parts.

I claim:

1. A container having a vertically movable cover, a vertically movable bottom and a connection between the cover and the bottom, said connection having a finger push portion extending below the container when the bottom and cover are raised; substantially as described.

2. A container having a vertically movable cover, a vertically movable bottom, and a connection between the cover and the bottom, said connection having a portion thereof below the container arranged to form a finger push, and said connection being exterior of said compartment; substantially as described.

3. A container having a vertically movable cover, a vertically movable bottom, and a connecting member between the cover and bottom, said member being connected to the lower side of the bottom and extending thence upwardly to the cover exteriorly of said compartment; substantially as described.

4. A tooth brush holder having a compartment for a tooth brush, a movable cover for said compartment, a movable bottom in said compartment, and a cover actuating device connected to the movable bottom and extending below the lower end of the compartment, and on the exterior of said compartment; substantially as described.

5. A tooth brush holder having a compartment for a tooth brush, a rearward extension at the upper end of the compartment, a rearward extension at the lower end of said compartment, said extensions forming brackets for securing the holder in position, a cover pivoted to the upper extension, a movable bottom in the compartment, and a cover actuating device connected to the movable bottom and extending below the end of the compartment, said actuating device extending upwardly in back of the compartment; substantially as described.

6. A tooth brush holder having a compartment for a tooth brush, a rearward extension at the upper end of the compartment, a rearward extension at the lower end of said compartment, said extensions forming brackets for securing the holder in position, a cover pivoted to the upper extension, a movable bottom in the compartment, a cover actuating device connected to the movable bottom and extending below the lower end of the compartment said actuating device extending upwardly in back of the compartment, and a catch device for retaining the bottom actuating device in its elevated position; substantially as described.

7. A tooth brush holder having a compartment for a tooth brush, a rearward extension at the upper end of the compartment, a rearward extension at the lower end of said compartment, said extensions forming brackets for securing the holder in position, a cover pivoted to the upper extension, a movable bottom in the compartment, a cover actuating device connected to the movable bottom and extending below the lower end of the compartment said actuating device extending upwardly in back of the compartment, a projection on the cover actuating member, and a catch arranged to be engaged by said projection to retain the actuating device in its elevated position; substantially as described.

In testimony whereof, I have hereunto set my hand.

WALTER MILLER.

Witnesses:

J. P. FORMICHELLA,
CLARENCE B. BRITTON.