Dec. 22, 1925. 1,566,860

J. P. HAINZIGIANIS

TOOTHBRUSH HOLDER

Filed March 9, 1925

Fig. 1.

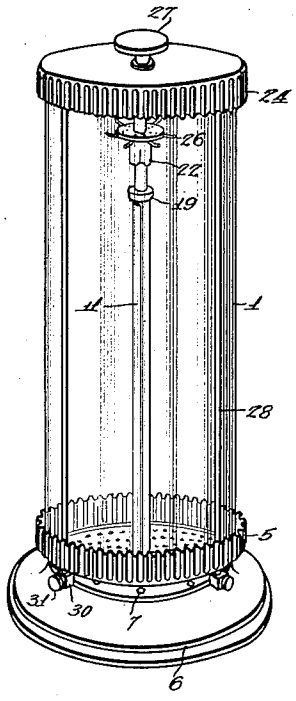


Fig. 2.

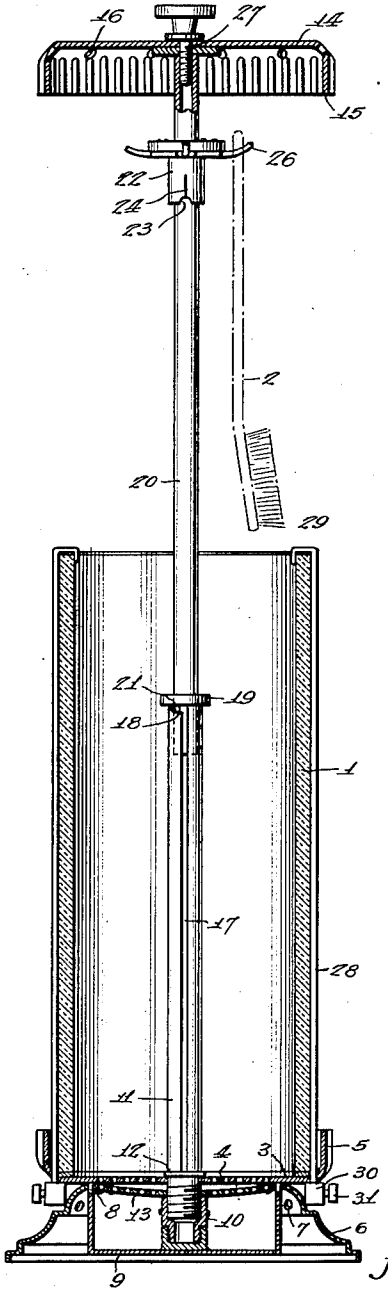
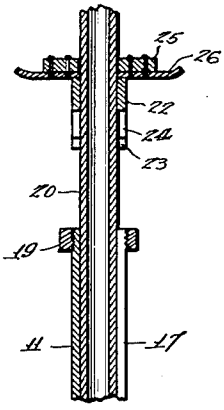


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

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TOOTHBRUSH HOLDER.

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To all whom it may concern:

Be it known that I, JAMES P. HAINZIGIANIS, a citizen of Greece, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Toothbrush Holder, of which the following is a full, clear, and exact description.

This invention relates to tooth brush holders and has for an object to provide an improved construction wherein a plurality of tooth brushes are suspended in a closed container.

Another object in view is to provide a tooth brush holder in which a closed container is provided for receiving a plurality of tooth brushes, the same being associated with means whereby the brushes may be elevated to a position above the container at any time.

A further object, more specifically, is to provide a tooth brush holder wherein a container and a tooth brush support are provided and arranged so that the tooth brush holder and the brushes thereon may be protected when not in use and may be readily moved to a position exposing all of the brushes simultaneously.

In the accompanying drawing—

Figure 1 is a perspective view of a tooth brush holder, disclosing an embodiment of the invention.

Figure 2 is a longitudinal vertical sectional view through Figure 1, the same being on an enlarged scale and with the tooth brush support in an elevated position.

Figure 3 is an enlarged fragmentary sectional view through Figure 1, approximately on line 3—3.

Referring to the accompanying drawing by numerals, 1 indicates a glass tube which is preferably comparatively thick, said tube acting as a container for surrounding and enclosing a number of tooth brushes 2. The container 1 is mounted on the bottom 3 which is preferably formed with a number of perforations 4 whereby the water may freely drain from the container. The bottom 3 is preferably formed with an upstanding corrugated flange 5 and is soldered or otherwise rigidly secured to a base 6. The base 6 is provided with a number of perforations 7 whereby air may freely circulate therethrough and through the notches 8 in the upper edge of the cup 9, which cup is connected to an internally threaded sleeve 10 in any desired manner, which sleeve is screwed onto the threaded lower end of the tube 11, which tube has an enlargement or flange 12 whereby the flange 12 is clamped tightly against the bottom 3 when the cup 9 is positioned as shown in Figure 2. A foraminous cover 13 is provided for the cup 9, said cover being concaved so that there will be a tendency of the water passing through the bottom 3 to move centrally of the cover. This will permit air to freely circulate through the outer apertures 4 and also through the outer apertures or openings in the cover 13. A cap 14 is provided for the upper end of the container 1, which cap preferably is made of sheet metal and is formed with a depending corrugated flange 15 slidingly fitting over the upper end of the container 1. A number of perforations 16 are provided in the cap 14 whereby there may be a free circulation of air from the top to the bottom of the container without permitting any appreciable amount of dust to enter the container.

In order to support the brushes 2 either within the container 1 or above the same as shown in Figure 2, the tube 11 is provided with a vertical slot 17 having an offset 18 at the upper end. An annular shoulder 19 is provided at the upper end of the tube 11 which shoulder may be integral or may be threaded in position as shown in Figure 3. A rod or tube 20 is slidingly fitted in the tube 11 and is provided with a pin 21 projecting into the slot 17 when the parts are as shown in Figure 1, said pin being adapted to be moved into the offset 18 when the parts are moved to the position shown in Figure 2. A short sleeve 22 is rigidly secured by solder or other suitable means to the tube 20, said sleeve having a number of notches 23 merging into slits 24. Where these notches and slits are provided, solder may be dispensed with and this portion of the sleeve contracted so that pinching members will be provided which will grip the tube 20 and hold sleeve 22 in place. A disk 25 is rotatably mounted on tube 20 above the sleeve 22. A number of pins or hooks 26 are riveted to the disk 25 and extend an appreciable distance therefrom with their outer ends curved upwardly somewhat whereby they may readily project through holes in the respective tooth brushes 2. It will be evident that any desired number of hooks or pins 26 may be provided within

certain limits so that the device may be used by a number of persons and yet each person may have an independent tooth brush. The extreme upper end of the tube 20 is internally threaded for receiving the screw 27 which acts to clamp the cap 14 rigidly in place and also acts as a knob whereby the cap 14 may be raised or lowered as desired. Also, preferably the container 1 is held on the bottom 3 by a number of rods 28 which are formed with hooks 29 at the upper end and which extend through the bottom 3. The lower ends of each of the rods 26 are supplied with a stop or block 30 held in place by suitable set screws 31 whereby the various rods 28 are locked in place and, consequently, lock firmly the container 1 in operative position. Preferably, part of the rods 28 fit into certain of the corrugations of flange 5 and, consequently, are held against tilting.

In operation, when the parts are in the position shown in Figure 2, brushes may be freely placed on the hooks 26 or removed therefrom. When the brushes are not in use, the enlarged upper end of the screw 27 is grasped and rotated whereupon the tube 20 will be rotated so that pin 21 will move out of the notch or offset 18 into the slot 17. The parts including the tooth brushes are then lowered until the various parts assume the position shown in Figure 1. When in this position, the brushes are protected against dust while a certain amount of air circulation is provided and also means have been provided for permitting drainage. The cup 9 acts to receive the water drainage from the container 1. This cup may be emptied from time to time as desired.

What I claim is:

1. A tooth brush holder, comprising a closed container formed as a tube, a metallic bottom for said container, a pair of rods having hooked ends for clamping said container to said bottom, a supporting base connected with said bottom, a cap for said container, and telescoping means connected with said cap and bottom for supporting tooth brushes in the container, said telescoping means being sufficiently distendable to permit the brushes supported thereby to move to a point exteriorly of the container when fully distended.

2. A tooth brush holder, comprising a tubular body, a separate bottom connected with said body, said bottom being formed with a plurality of openings, a base connected with said bottom for supporting the same, said base having a plurality of openings, a cup removably connected with said bottom for receiving drainage water from the container, said cup having a plurality of openings near the upper part whereby there may be a circulation of air through the various openings, a removable cap for the upper end of the container, and means for supporting tooth brushes within the container, said means being capable of adjustment whereby the brushes carried thereby may be moved to a position exteriorly of the container.

3. A tooth brush holder, comprising a container having an open top, a cap for closing said open top, and means for supporting tooth brushes within the container, said means being distendable to such an extent that when fully distended the tooth brushes will be supported above the container.

4. In a tooth brush holder, a container having a tubular body and a disk-shaped bottom formed separate from the body, a tube arranged in the body and extending through the bottom, said tube having an enlargement fitting against the upper surface of the bottom, means threaded onto the lower end of said tube for clamping the same firmly to said bottom, means for clamping said body to said bottom, means for supporting a plurality of brushes in said body, and a cover for said body.

5. In a tooth brush holder, a container, a tubular member connected with the bottom of the container formed with a vertical slot merging into a right angle slot near the top, a tube telescopically fitting into said tubular member, said tube being provided with a pin near the lower end, said pin normally extending into said slot but being capable of movement into said right angle slot when the tube is raised to its upper position, means carried by said tube for supporting a plurality of tooth brushes, and a cap mounted on the upper end of said tube, said cap being adapted to engage the upper part of said container when said pin is adjacent the bottom of said slot whereby the brushes supported by the brush supporting means will be positioned wholly within the container.

6. In a tooth brush holder, a container, a telescoping structure connected to the bottom of the container, a cap connected to the upper end of the telescoping structure, and a rotatable member formed with a plurality of hooks carried by the upper part of the telescoping structure, the proportion of the telescoping structure being such that when the same is distended to its full extent the rotatable hook carrying structure will be an appreciable distance above the container and when collapsed until the cover engages the container the brush supporting structure will be positioned within the container.

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