

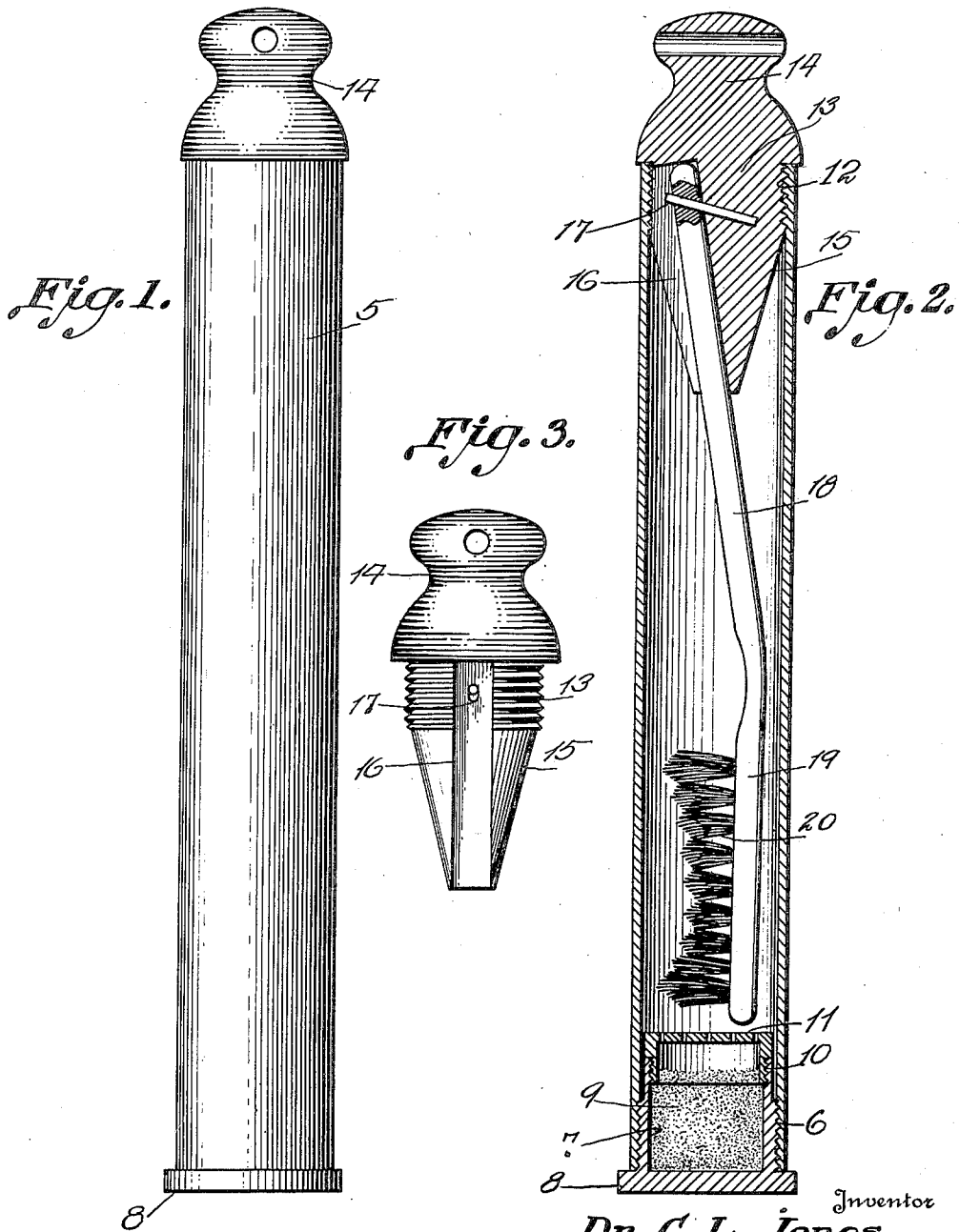
June 26, 1923.

1,459,831

C. L. JONES

TOOTHBRUSH HOLDING DEVICE

Filed Sept. 19, 1922



UNITED STATES PATENT OFFICE.

CHARLEY L. JONES, OF ALTUS, OKLAHOMA.

TOOTHBRUSH-HOLDING DEVICE.

Application filed September 19, 1922. Serial No. 539,250.

To all whom it may concern:

Be it known that CHARLEY L. JONES, a citizen of the United States, residing at Altus, in the county of Jackson and State of Oklahoma, has invented certain new and useful Improvements in Toothbrush-Holding Devices, of which the following is a specification.

My invention relates to a device for holding and sterilizing a tooth brush.

An important object of the invention is to provide a device of the above mentioned character, which will hold a tooth brush in an air tight receptacle, with the brush end thereof in proximity to a receptacle containing a suitable disinfectant, the construction being such that the brush is securely held in position, and may be conveniently removed from the device, and separated therefrom, for use.

A further object of the invention is to provide a device of the above mentioned character, having means for attaching a tooth brush of different shapes and sizes to the cap element, in a novel and highly efficient manner.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification, and in which like numerals are employed to designate like parts throughout the same,

Fig. 1 is a side elevation of a device embodying my invention,

Fig. 2 is a central longitudinal sectional view through the same, and,

Fig. 3 is a side elevation of the cap element removed.

In the drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 5 designates a tube, which is preferably cylindrical, and constitutes the body portion of the device. This tube is preferably formed of aluminum, as this material is light and can be thoroughly sterilized.

The lower end of the tube 5 is internally screw threaded, at 6, for receiving the exteriorly screw threaded portion of a receptacle 7, which is cylindrical, and has a base 8. This receptacle receives and holds a disinfectant 9, which may be of any well known or preferred type. The inner end of the receptacle is circumferentially reduced and is interiorly threaded, at 10 to engage

with the screw threaded end of a perforated cap 11, as shown.

The opposite end of the tube 5 is internally screw threaded as shown at 12, to engage with a shank 13 of a cap element 14. The shank has an inner tapered portion 15, as shown.

The shank 13 is provided with an inclined longitudinal groove or slot 16, extending through its periphery, and made in a width for the reception of the handle of the tooth brush having the maximum width. This groove of course passes through the periphery of the shank 13. I prefer to arrange a suspension element 17, which may be in the form of a pin or hook, within the groove 16, and this suspension element is adapted for insertion through the eye ordinarily formed in the handle of the tooth brush. The sides of the handle may contact with the walls of the groove, and the brush may be supported within the groove by frictional contact, but it is preferred to also employ a suspension element. However, I contemplate dispensing with the suspension element, in certain cases.

The numeral 18 designates the handle of the tooth brush, which is ordinarily arranged at a slight angle to the back 19, carrying the bristles 20.

In view of the foregoing description it will be seen that the tooth brush will be suspended in place within the tube 5, in an air tight receptacle, with the brush end thereof in proximity to the receptacle 7 holding the disinfectant. When the cap element 14 is removed by unscrewing, the handle 18 of the tooth brush may be readily removed from the suspension element, taken out of the groove 16, and entirely separated from the cap element, whereby the tooth brush is used in the ordinary manner.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same, and that various changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:

1. A device for holding and sterilizing a tooth brush, comprising a tube, a receptacle for holding a disinfectant removably mounted in one end of the tube, a cap element detachably mounted in the opposite end of

the tube and having a longitudinally extending opening removably holding the end of the handle of a tooth brush.

2. A device for holding and sterilizing a
5 tooth brush, comprising a tube, a receptacle for holding a disinfectant arranged within one end of the tube, and a cap element removably mounted in the opposite end of the
10 tube, said cap element having a longitudinal groove extending through its periphery, for the reception of the handle of the tooth brush.

3. A device for holding and sterilizing a tooth brush, comprising a tube, a cap removably mounted upon one end of the tube 15 and having a shank projecting into the tube, said shank having a longitudinal groove extending through its periphery, and a suspension element held within the groove and adapted for insertion within the opening 20 formed in the handle of a tooth brush.

In testimony whereof I affix my signature.

CHARLEY L. JONES.