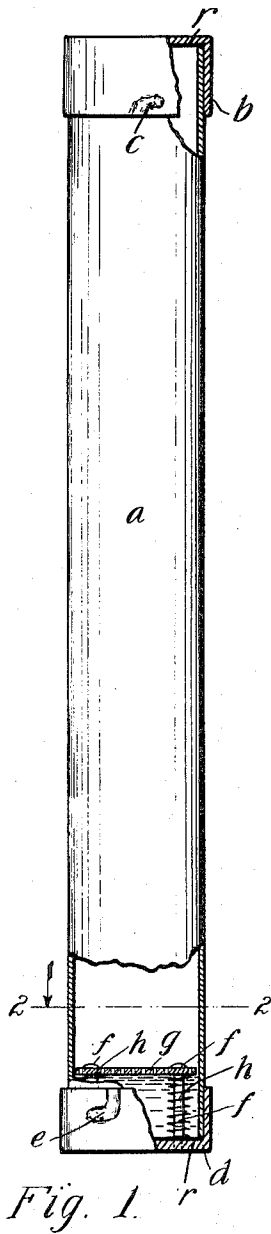
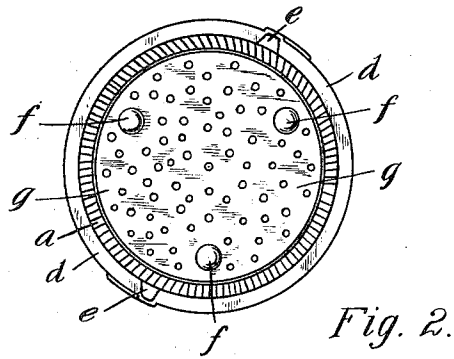
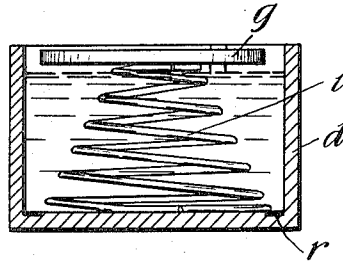
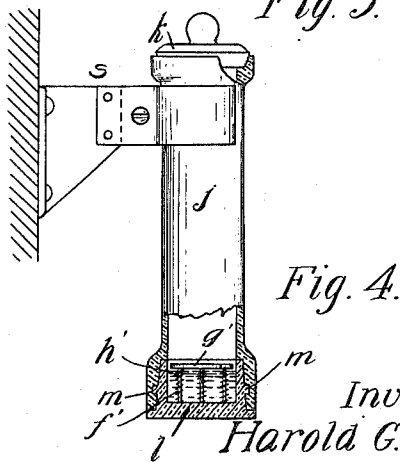


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 SANITARY TOOTH BRUSH HOLDER.  
 APPLICATION FILED JULY 19, 1916.

1,226,799.

Patented May 22, 1917.



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# UNITED STATES PATENT OFFICE.

HAROLD G. OLENA, OF BROOKLYN, NEW YORK.

SANITARY TOOTH-BRUSH HOLDER.

1,226,799.

Specification of Letters Patent.

Patented May 22, 1917.

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*To all whom it may concern:*

Be it known that I, HAROLD G. OLENA, a citizen of the United States, and a resident of Brooklyn, in the county of Kings, State of New York, have invented a certain new and useful Improvement in Sanitary Tooth-Brush Holders, of which the following is a specification.

My invention relates to sanitary containers for articles such as tooth-brushes, by which they are protected from dust; and, not only that, but whereby they may be sprayed with an antiseptic or disinfecting liquid each time they are inserted in the container. That is to say, I adapt the bottom end of my container to constitute a receptacle for antiseptic or disinfecting liquid, and place in such bottom-end means for producing a spray of such liquid such means adapted to be operated by pressure. Thus, in the act of inserting the tooth-brush in the container it may be pushed against said means, and in this wise a spray of the antiseptic or disinfecting liquid projected upon the bristles of the brush.

The structural details of my invention are hereinafter fully described.

In the accompanying drawings:

Figure 1 is an elevation of my device, partly in section, showing how the same may be made of metal;

Fig. 2 is a larger-scale horizontal section on the line 2—2 of Fig. 1, more particularly showing the spring-seated depressible perforated plate contained in the bottom end of the receptacle;

Fig. 3 shows an alternate construction from that shown in Fig. 1, with respect to the means provided for supporting said perforated plate upon a spring in such wise as to render the plate depressible; and

Fig. 4 shows my device as made of glass, and the bottom closure thereof made in the form of a cup for holding the disinfecting or antiseptic liquid, which cup is removably fastened in the bottom end of the container.

Referring in the first instance to the construction shown in Fig. 1; *a* is a metal tube provided with a cap *b*, held in place by a stud bearing in an L-slot as at *c*; and the bottom closure *d* is also removably secured by studs and L-slots as *e*. In the bottom closure are provided upright pins *f*, headed at their upper ends, and on such pins is mounted a reciprocable perforated plate *g*,

the heads of the pins preventing the plate *g* from being moved therefrom. Said plate *g* is held in its uplifted position by coil-springs as *h*, mounted on the pins *f*. Gas-kets *r*, in the cap *c* and bottom closure *d* make the device water-tight.

Instead of reciprocably supporting the perforated plate *g* in the manner shown in Figs. 1 and 2, such plate may be supported by means of a simple coil-spring, as shown by *i* in Fig. 3.

In Fig. 4, the container *j* is made of glass and is supported by a wall-bracket *s*. Said container is provided with a stopper *k*, and the lower end of the container *j* is adapted to have a cup-like closure *l* inserted therein. Means are also provided, which may be the type of a bayonet-joint, represented generally by *m*, for holding the cup-like closure *l* in place. As shown in Fig. 4, there is mounted in the cup-like closure *l* a perforated plate *g'*, on pins *f'*, and held uplifted by coil-springs *h'*; these details being similar to those shown in Fig. 1, but, as mentioned, they may be varied to correspond to the mechanism shown in Fig. 3.

It is thus seen that the bottom end of the container is, in each instance, intended to serve as a receptacle for the disinfecting or antiseptic liquid; and the depressible perforated plate, when pushed into such liquid, causing a spray to be projected up into the container. Such action of the depressible plate is readily induced by the mere act of pushing the tooth-brush down upon the plate with a somewhat quick motion; and in this way the brush is rendered antiseptic.

I claim:

1. A sanitary brush holder comprising a tubular container closed at the bottom end, means adapted to cause a spray of liquid contained in the container and of substantially the same cross section as that of the container to be ejected into the body of the latter, said means including a transversely arranged perforated depressible member, and means normally supporting said member at the top of the liquid contained in the bottom of the container.

2. A sanitary brush holder comprising a tubular container closed at the bottom end, a plate made with a plurality of perforations, yielding means depressibly supporting such plate transversely in and spaced from the bottom end of the container, whereby a spray of liquid contained in the

container may be caused to be projected through said plate into the body of the latter by pushing the brush against said plate.

3. In an article of the character described, 5 the combination of a tubular container, a removable closure for the bottom end of said container, said closure adapted for holding liquid, means for securing said closure in place, and a depressible spring-seated 10 perforated plate in said bottom closure.

4. In an article of the character described, the combination of a tubular container, a cap for the upper end thereof, a cup-like closure removably inserted in the bottom 15 end of said container, means for securing said closure in place, and a depressible

spring-seated perforated plate in said bottom closure.

5. A sanitary brush holder comprising a tubular container closed at the bottom end, 20 means adapted to cause a spray of liquid contained in the container and of substantially the same cross section as that of the container to be ejected into the body of the latter, said means including a transversely 25 arranged, perforated depressible member, means normally supporting said member at the top of the liquid contained in the bottom of the container, and means for guiding the movement of said depressible member.

HAROLD G. OLENA.