

928,542.

Patented July 20, 1909.

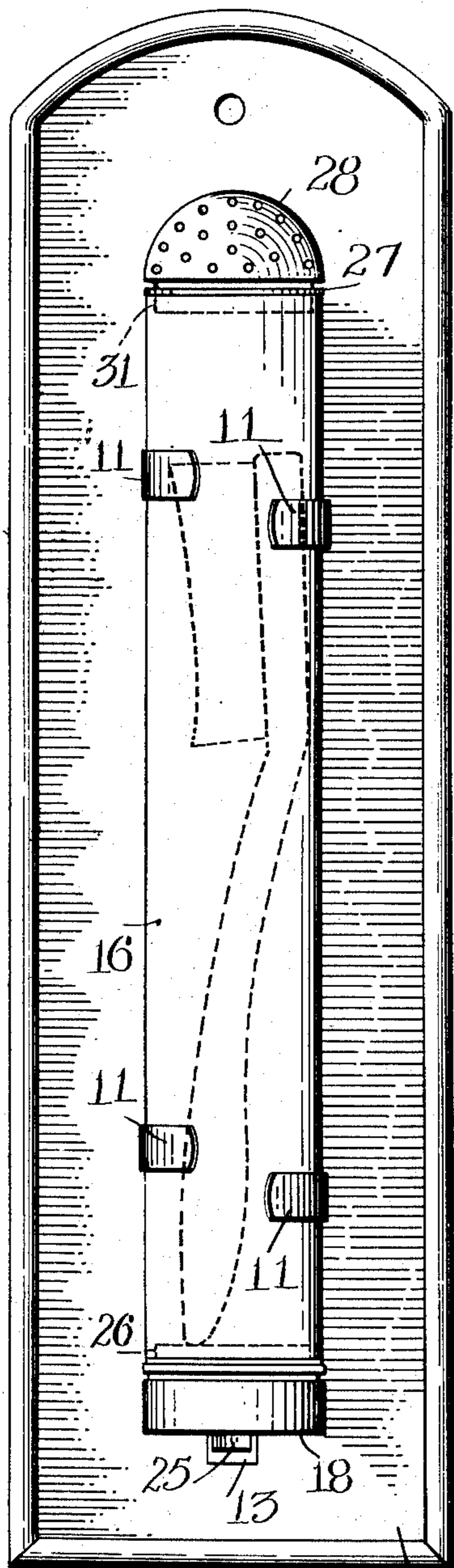


Fig. 1. 10

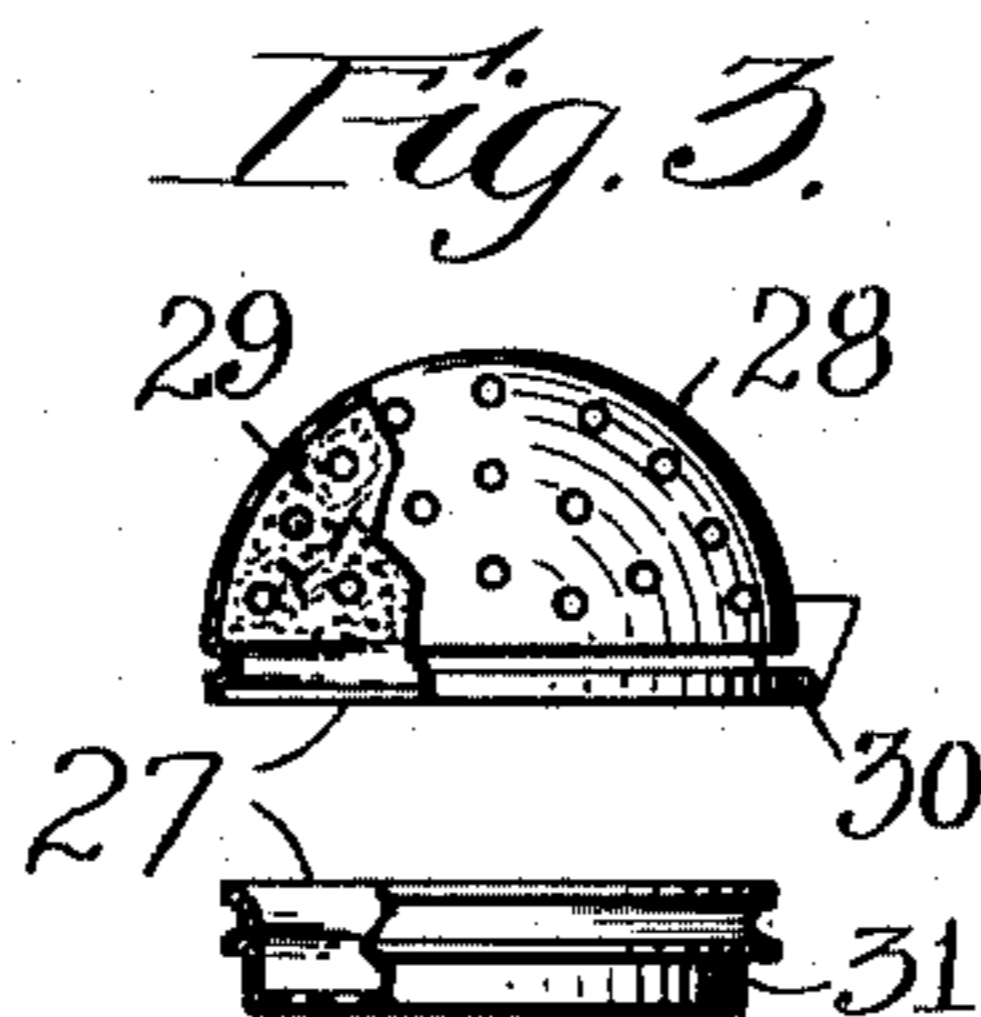


Fig. 4.

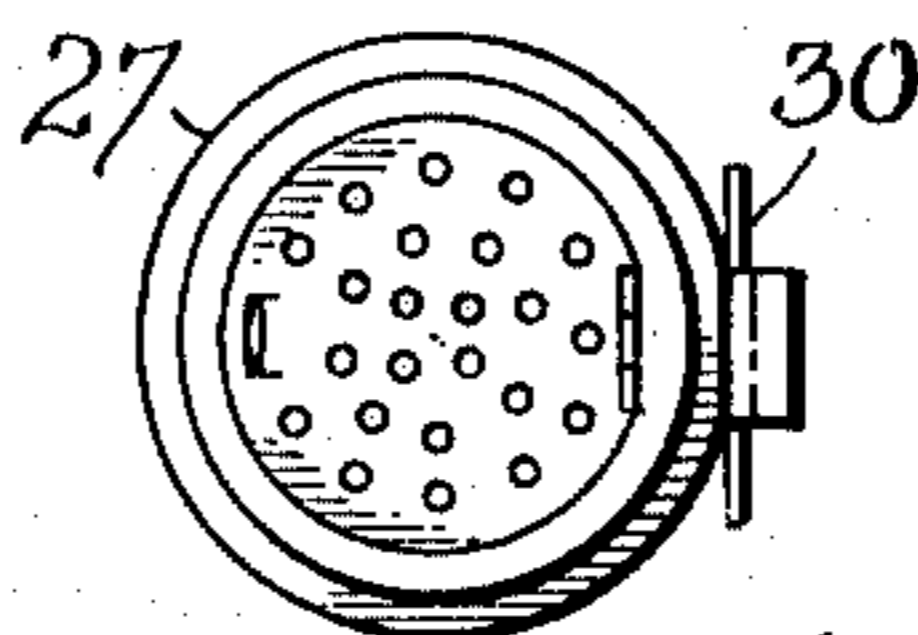


Fig. 5.

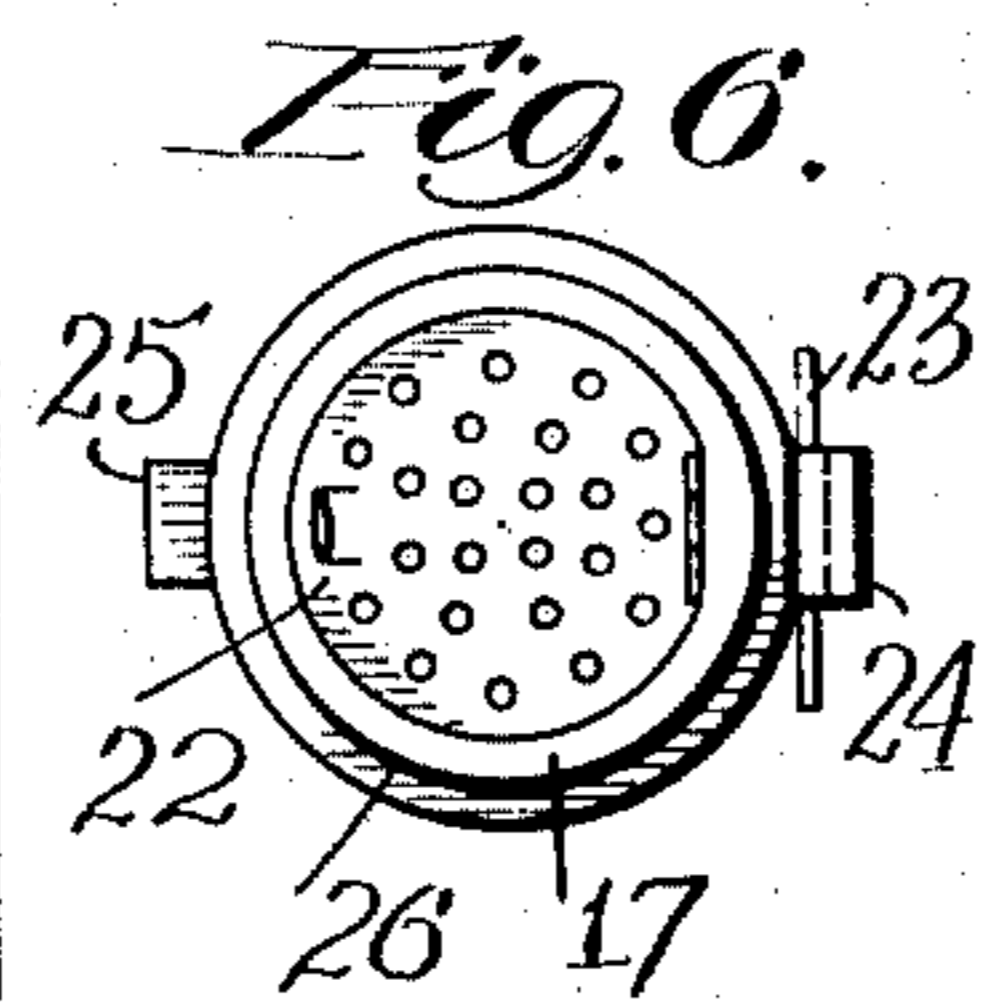


Fig. 7.

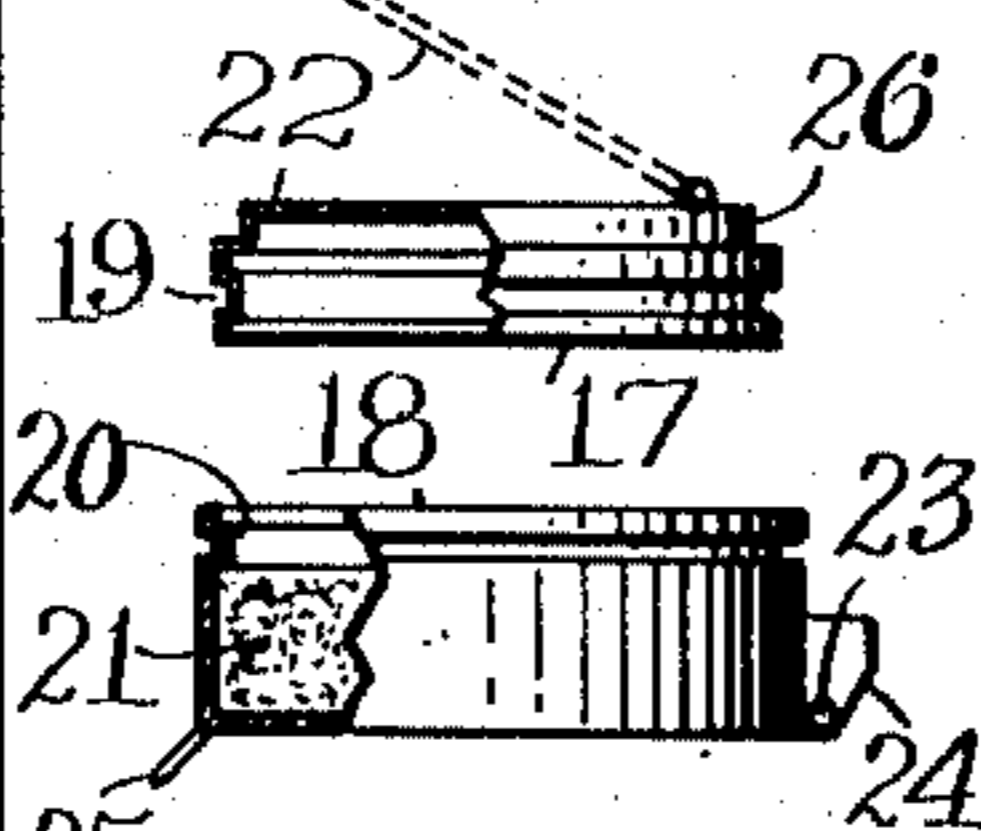


Fig. 8.

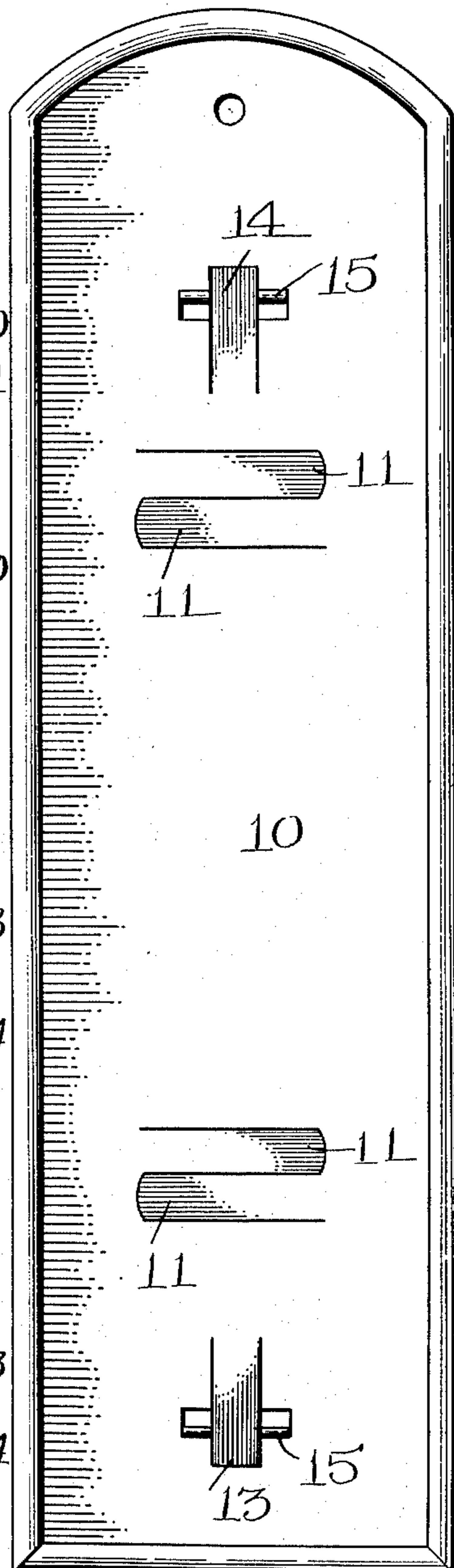


Fig. 2.

Witnesses:

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UNITED STATES PATENT OFFICE.

ROBERT M. RYAN, OF NEW YORK, N. Y.

TOOTH-BRUSH HOLDER.

No. 928,542.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed January 6, 1909. Serial No. 470,945.

To all whom it may concern:

Be it known that I, ROBERT M. RYAN, a citizen of the United States, residing at New York, borough of Manhattan, in the county of New York and State of New York, have invented a new and useful Tooth-Brush Holder, of which the following is a specification.

This invention relates to a holder for tooth brushes and the like. The principal objects of the same are to provide a construction which can be made in a simple and inexpensive manner so as to sell for a comparatively low price on the market and which shall be so made that the tooth-brush can be removed in a very simple and convenient manner for use and can be introduced into the holder in an equally simple way and so that the entire holder can be removed and cleaned at will without permanently disarranging the parts and without necessitating any exact adjustments in re-assembling the parts; also to provide means whereby the air can circulate through the holder while the brush is in position and means for at the same time preventing the entrance of dust and the like, such means being so placed and so arranged that it serves also conveniently for holding and keeping a disinfectant in proper position with respect to the brush while in the receptacle.

It will be understood that while this invention is particularly adapted for a tooth-brush holder and is so described herein, yet it is capable for use as a receptacle for holding other articles such as surgeons', dentists' and similar instruments and the like.

Further objects and advantages of the invention will appear hereinafter.

Reference is to be had to the accompanying drawings in which—

Figure 1 is a front elevation of one embodiment of the invention. Fig. 2 is a similar view of a blank of sheet metal from which the back shown in Fig. 1 may be made. Fig. 3 is an elevation of the top or cover of the receptacle partly in section. Fig. 4 is a similar view of the lower portion thereof. Fig. 5 is a bottom plan of the top or cover. Fig. 6 is a plan of the bottom. Fig. 7 is an elevation of the same partly in section, and Fig. 8 is a similar view of the cover part of the bottom.

Although many other materials can be em-

ployed, the back or base on which the receptacle is supported is shown in the drawings as formed from a sheet metal blank 10. This blank is stamped out with a series of integral tongues 11 arranged near the top and bottom respectively of the back. The blank is also provided with a stamped-out spring 13 at the bottom and with a similar stamped-out spring 14 at the top at each side of each spring the metal is shown cut out and rolled back to form a hinge joint 15. These spring hinges and tongues are of course integral with the back when the latter is formed of sheet metal and are all formed practically by one operation but if formed of other material they are placed in position in any other ordinary way.

The main body of the receptacle comprises a glass tube or cylinder 16 which is designed to be held by the tongues 11 which are bent around it. These tongues are of sufficient resiliency to permit this glass tube to be withdrawn directly forward and to permit it to be replaced. This is convenient in cleaning the tube. The receptacle or holder has two closures one at each end, the bottom one comprising a small casing in two parts 17 and 18 having a pair of parallel horizontal walls which are perforated to permit the circulation of air. These two parts have matching circular grooves 19 and 20 which fit each other so that they can be pressed together and will stay in place. Within these walls is held a body of cotton 21 or similar fibrous material packed with sufficient tightness to prevent the passage of dust or small particles therethrough but so as not to prevent the circulation of air. This fibrous material preferably is saturated with a liquid disinfectant and as is readily understood will hold the same so as to act on the contents of the receptacle for a long time. It is introduced through an opening which is closed by a swinging door 22. The bottom is hinged to the back by a hinge pin or pintle 23 passing into the hinge joints 15 on either side of the spring 13 which normally bears on a rearward projection 24 on this bottom and holds it closed. The tooth-brush is introduced into the receptacle by pressing down on a projection 25 to swing the whole bottom down. Then the tooth-brush is introduced from be-

low and the bottom swung upwardly and latched so as to hold the tooth-brush in position. It will be seen that the bottom has an annular groove 26 in the upper face thereof
 5 for receiving the lower edge of the glass tube.

The top 27 of the device is made similar to the bottom but is shown as having a hemispherical upper surface 28. The two walls of the top are perforated in the same manner as
 10 in the bottom and it is provided with a fibrous material 29 for the same purpose. This top is hinged to the back by a pintle 30 in a similar way to that described above and it is provided with a downwardly projecting part 31 fitting within the glass cylinder
 15 so that this cylinder is normally surely held between the bottom and top but when it is desired to remove it, the bottom is pressed down as described above and the top is lifted slightly on its pivot which permits
 20 the cylinder to be turned forward without hindrance. When the cylinder is replaced the top and bottom snap into position and securely hold it. In this way a receptacle is
 25 secured which is entirely antiseptic and which is very freely removed and cleaned and which has the other advantages referred to above.

While I have illustrated and described a preferred embodiment of the invention, I am aware that many modifications may be made therein by any person skilled in the art without departing from the scope of the invention as expressed in the claims. Therefore, I
 30 do not wish to be limited to all the details of construction shown and described, but

What I do claim is:—

1. As an article of manufacture, a holder for tooth brushes and the like comprising a
 40 back, a vertical glass cylinder supported by said back, and a removable top and bottom for said cylinder supported by the back, said back having pivoted means for holding the bottom in position, said means being capable
 45 of yielding and swinging downwardly to permit the bottom to be drawn down so as to allow the contents of the cylinder to be drawn out from below.

2. As an article of manufacture, a holder
 50 for tooth brushes and the like comprising a back, a glass cylinder supported by said back, and a removable closure for the end of said cylinder pivoted on the back independently of the cylinder and comprising a
 55 hollow hemispherical member packed with cotton or the like and provided with perforations through its outer convex side to permit circulation of air, and having an inner member removably fitted in the open end of
 60 said hemispherical member, provided with a projection fitting in the end of the cylinder and having a perforated inner end, and having a swinging door in its inner end.

3. As an article of manufacture, a holder

for tooth brushes and the like comprising a
 65 back, a cylinder supported by said back, and a removable closure for the end of said cylinder pivoted on the back independently of the cylinder, a hollow member packed with cotton or the like and provided with perfora-
 70 tions through its outer side to permit circulation of air, and having an inner member removably fitted in the open end of said member provided with a projection fitting in the end of the cylinder and having a per-
 75 forated inner end.

4. As an article of manufacture, a holder for tooth brushes and the like comprising a back formed of sheet metal provided with
 80 integral resilient tongues projecting therefrom and arranged in pairs, a glass cylinder held on the back by said tongues, which embrace the cylinder on opposite sides, and means carried by said back and movable independently of the tongues and cylinder for
 85 closing the top and bottom of the cylinder, whereby the cylinder with its closures is removable from the back by a straight forward pull.

5. As an article of manufacture, a holder
 90 for tooth brushes and the like comprising a back formed of sheet metal provided with integral tongues projecting therefrom, a glass cylinder held on the back by said tongues for receiving the tooth brush, and means carried
 95 by said back for closing the top and bottom of the cylinder, said means comprising a spring integral with the back for holding the bottom in position capable of yielding to permit the bottom to be withdrawn and
 100 the contents of the cylinder to be removed.

6. As an article of manufacture, a holder for tooth brushes and the like comprising a back formed of sheet metal, a glass cylinder held on the back for receiving the entire
 105 tooth brush, a removable imperforate end closure for the cylinder, a hinge joint for the closure integral with the back, and a spring integral with the back for holding the closure in position capable of yielding to permit the
 110 closure as a whole to be withdrawn and the contents of the cylinder to be removed.

7. As an article of manufacture, a holder for tooth brushes and the like comprising a transparent cylinder, a removable bottom
 115 therefor for permitting the contents of the cylinder to be removed downwardly, and a cover having perforations for permitting the circulation of air and provided with means for preventing the entrance of dust, said
 120 cover having means for engaging the top of the cylinder and holding it in position and being removable to permit the cylinder to be withdrawn.

8. As an article of manufacture, a holder
 125 for tooth brushes and the like comprising a back, a bottom pivoted on the back, means for yieldingly holding the bottom in hori-

zontal position, a top pivoted on the back, and a cylinder, said top and bottom being provided with projections fitting within the ends of the cylinder for holding them, whereby said cylinder is removable from the back.

In testimony whereof I have hereunto set

my hand, in the presence of two subscribing witnesses.

ROBERT M. RYAN.

Witnesses:

ANNA H. PU VOGEL,
EDNA MAY FOX.