

No. 684,231.

Patented Oct. 8, 1901.

J. B. HAMMOND.  
ASEPTIC OR HYGIENIC RECEPTACLE COVER.

(Application filed Jan. 3, 1901.)

(No Model.)

Fig. 1.

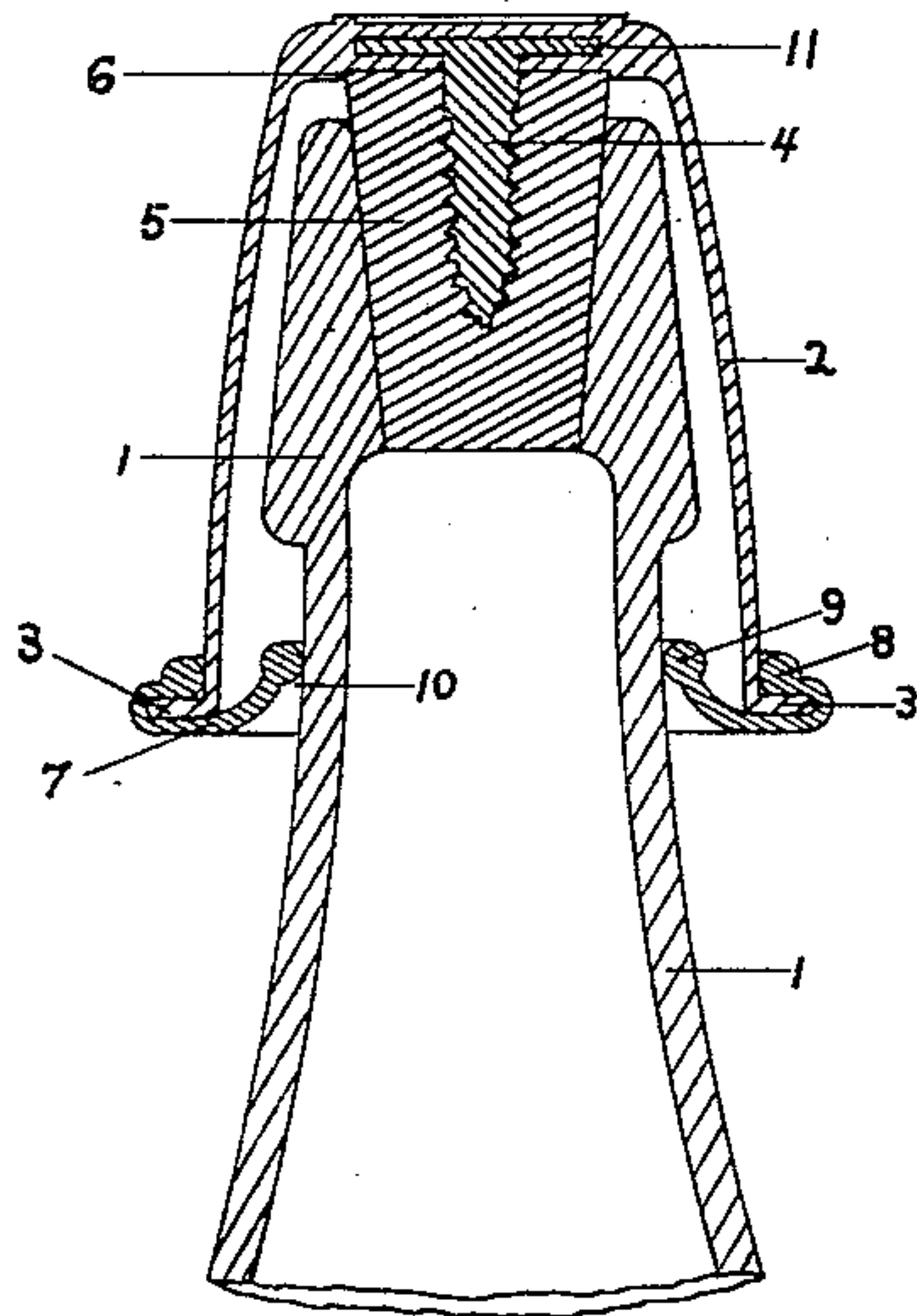


Fig. 2.

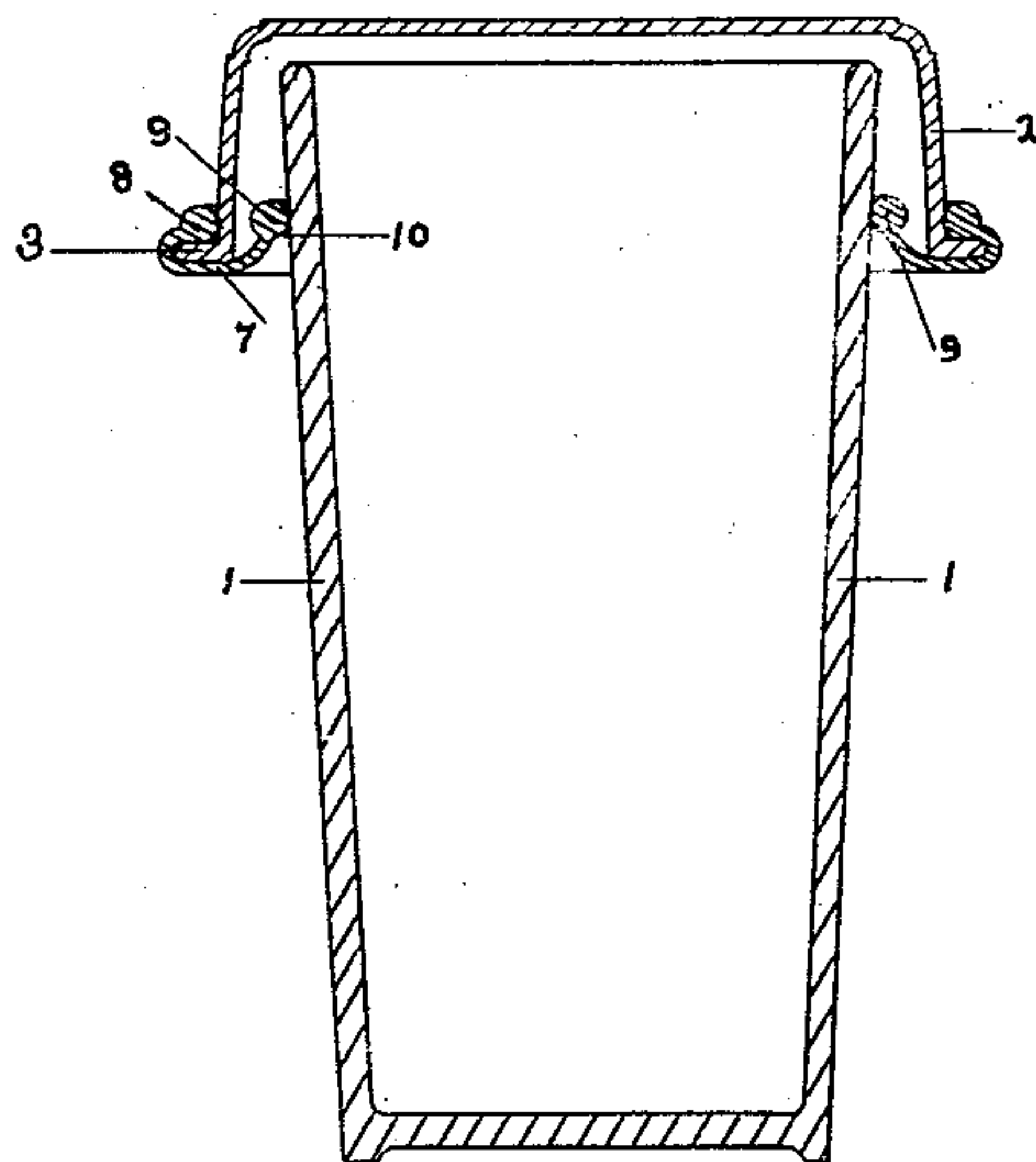


Fig. 3.

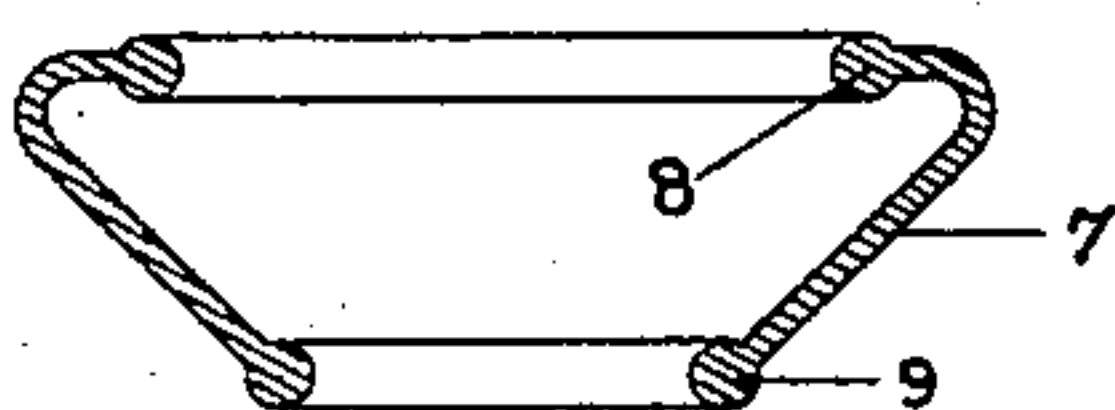


Fig. 5.

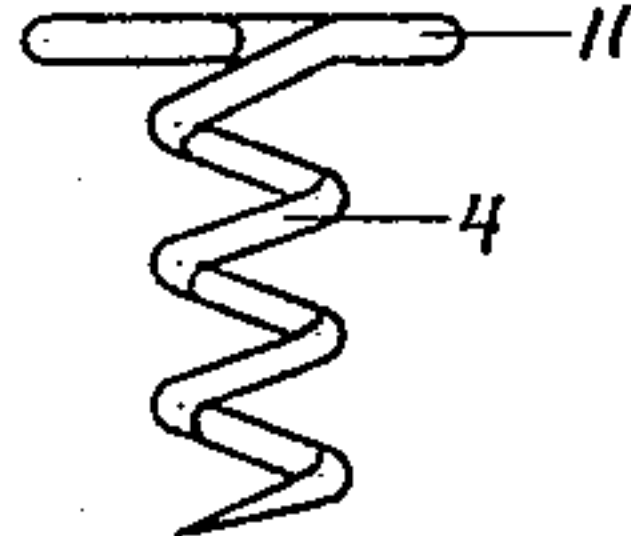


Fig. 6.

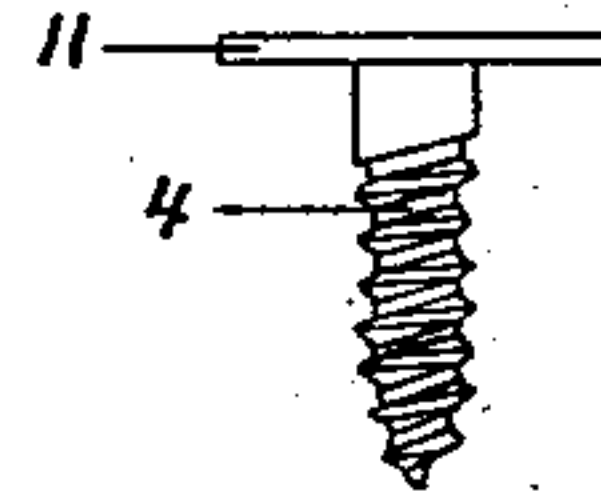


Fig. 4.

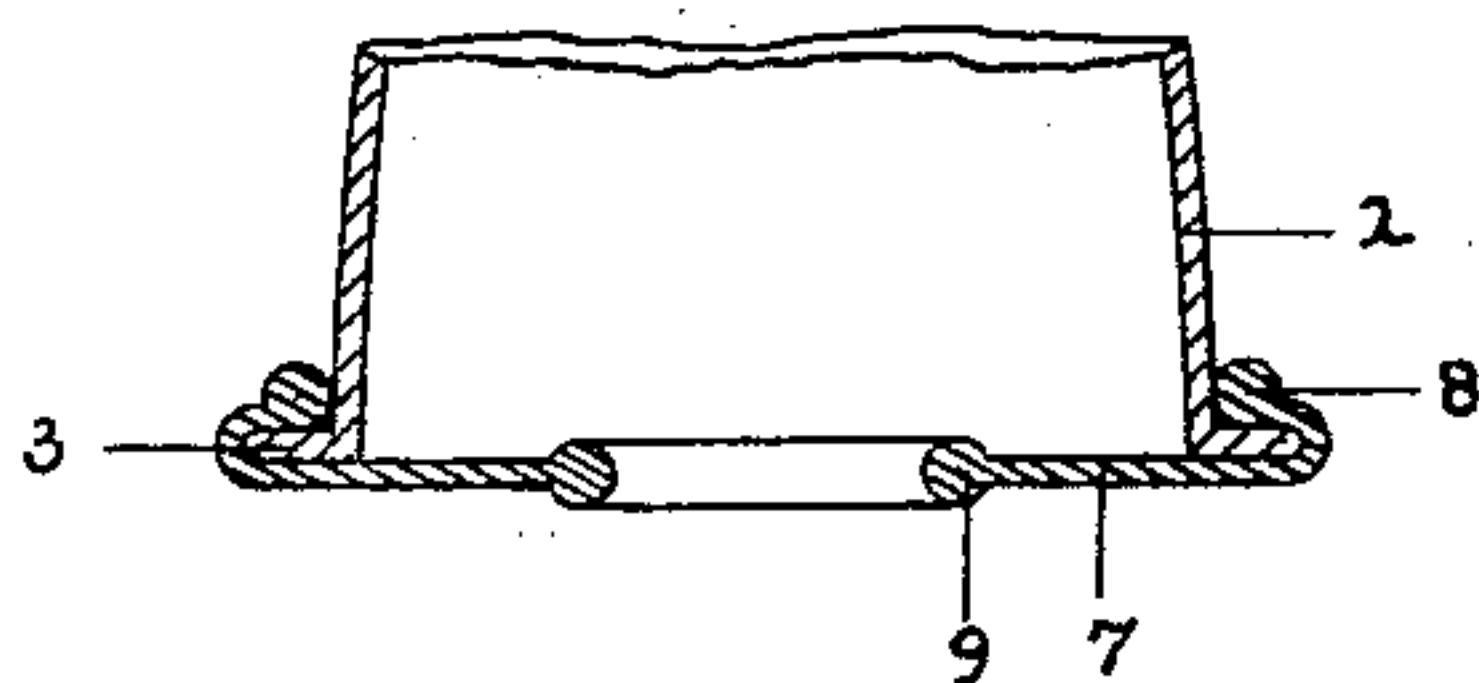


Fig. 7.

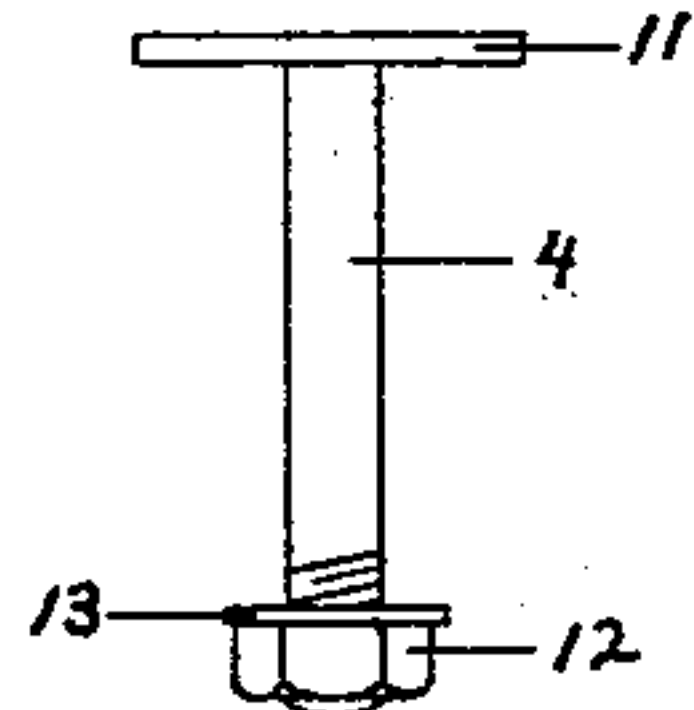
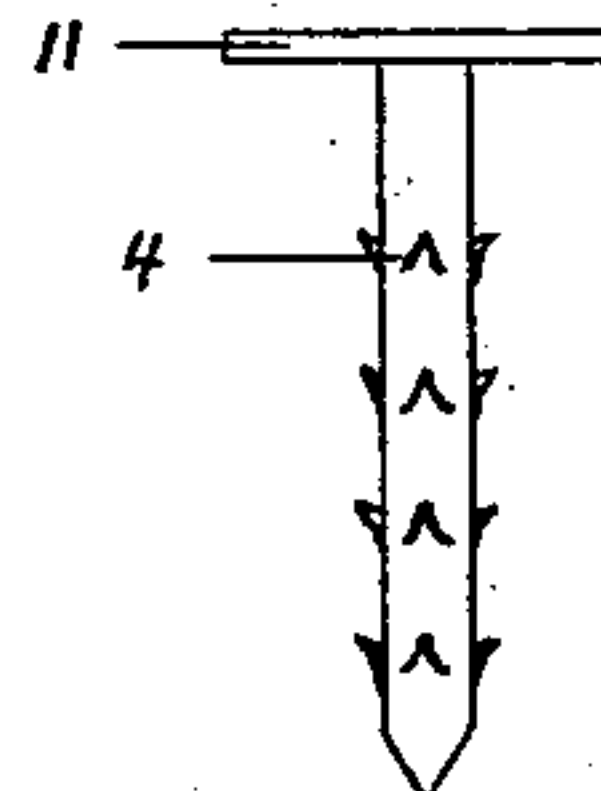


Fig. 8.



WITNESSES:

*Walter Donaldson*  
*F. L. Winton*

INVENTOR

JAMES B. HAMMOND

BY *W. H. Spence*

ATTORNEY

# UNITED STATES PATENT OFFICE.

JAMES B. HAMMOND, OF CAMDEN, MAINE.

## ASEPTIC OR HYGIENIC RECEPTACLE-COVER.

SPECIFICATION forming part of Letters Patent No. 684,231, dated October 8, 1901.

Application filed January 3, 1901. Serial No. 41,987. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES B. HAMMOND, a citizen of the United States, and a resident of Camden, Knox county, Maine, have invented certain new and useful Improvements in Aseptic or Hygienic Receptacle-Covers, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

My invention has for its main object to provide covers by which wines, waters, medicines, and all manner of liquids or dry substances may be preserved or dispensed from any bottle or other receptacle as free from microbes, germs, or dust as when the same was first inclosed.

It is well known that in at least nine cases out of ten the butler, waiter, or other person in serving wines, waters, medicines, &c., will after removing the cork or cover wipe off the mouth of the receptacle with his hand or napkin, intending, no doubt, to remove any dust or other foreign substance that may have accumulated thereon, but not thinking that in so doing he may place other and perhaps more deleterious foreign substance thereon in the shape of microbes or germs or what not, or he may so hold the bottle, glass, &c., while pouring or dispensing that the liquids will pass over and in contact with his fingers with a like result, thereby placing the patient or user in imminent danger.

My invention consists in a lid that will extend down over the neck of the vessel or receptacle in such a manner that the party opening the same must grasp it at a point below said lid before he can remove the cork, and while he so holds the bottle he is very likely to pour with his hand in that position when cork or cover is removed. The elastic ring is an important feature of my invention, since it tends to clean the neck of the bottle or brim of receptacle when placed over the same and keeps out any dust or other substance that might otherwise gather thereon and wipes it off again when it is removed.

Referring to the accompanying drawings, Figure 1 is a cross-section of my device, showing its relation with the receptacle and cover, which are also in cross-section. Fig. 2 is a

cross-section showing its relation with a glass or other receptacle without the cork or stopper. Fig. 3 is a cross-section of an elastic ring which stretches over the flange of my device; and Fig. 4 is a cross-section of the same as it appears when so stretched and before putting on over the neck of bottle, &c. Figs. 5, 6, 7, and 8 show various methods of fastening the cork or stopper in the device, which will be referred to later on.

In the drawings, 1 represents the neck or part of the bottle or receptacle that the device is to cover.

2 is the lid, which may be of any suitable material, as glass, hard rubber, or vulcanite, the top of which is closed, and in the case of being made of hard rubber or vulcanite has a screw or stud 4 made fast therein, with the point extending internally to receive the cork 5 or stopper, which draws into a recess 6 provided for that purpose. Said cork or stopper when so attached to lid may be inserted into mouth of bottle in the ordinary manner. At the bottom edge of 2 is a flange 3, surrounding it, over which is stretched a cone-shaped elastic ring 7 of the shape shown in Fig. 3, the edges of which are reinforced by enlargements 8 and 9. Said ring when stretched over flange 3 will assume the shape shown in Fig. 4, and when put over the neck of the bottle, &c., will take the shape as in Fig. 1. It will be observed that in putting the device over the neck of the bottle one side of the enlargement 9 comes in contact with the neck of the bottle, &c., while when the device is withdrawn from the receptacle the enlargement 9, will gradually turn over and cause the opposite side of said enlargement to drag on said neck of bottle or brim of receptacle. This is important in that should there be any impurity, such as microbes or germs, on the outside of receptacle the very act of putting the device in position will tend to clean the bottle, &c., and will keep it so, and in case there were microbes at the point 10 it is evident that when the device was withdrawn and the enlargement 9 was turned over or reversed it would leave said microbes or dust behind and present a clean surface on the neck of the bottle or brim of receptacle.

55

60

65

70

75

80

85

90

95

100



Referring to Fig. 6, the drawing represents a simple wood-screw 4, with a flat thin head 11 of any suitable shape that may be vulcanized into the crown of 2, and thereby secured from turning. I do not confine myself to this particular method of fastening the cork or stopper to its place in the lid, as it is only one of many equally as good, such as a cork-screw, Fig. 5, held centrally in a like manner, or a bolt, Fig. 7, extended downward and through a hole in the cork, and said bolt provided with a nut 12 and washer 13 beneath the cork for the purpose specified. In the event of the lid 2 being made of glass or thin metal other means must be provided for holding the cork 5 than those shown, in which case the corkscrew, wood-screw, bolt, &c., would be provided with a round or other suitably-shaped head and attached through a hole in the crown of lid to the cork or stopper inside by means of a screw-driver, thumb-nut, or wrench, as the case may be.

It will be understood that the invention is not to be limited to the exact construction or arrangement of the devices shown or the material used, but that many modifications may be made therein by those skilled in the art without departing from the scope of my invention. It will be understood also that many of the features of my invention may be used in constructions not employing the other features and that the claims are intended to cover such use.

The screw connection between the cover and the cork proper is a feature of importance, as by this I am enabled to separate the cork from the cover. In doing this I insert the cork into the bottle-mouth, pressing the cover down to secure a good frictional contact between the cork and the bottle-mouth, which latter then acts as a vise to hold the cork, while the cover may be turned to detach the parts or start the unscrewing action. The parts may be also assembled by this method. Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a receptacle-cover, the combination of an inverted-cup-shaped lid and a cone-shaped elastic ring stretched over the brim thereof, which may be placed over the neck of a bottle or brim of receptacle, the inner edge of said ring being arranged to fit against the outside of the bottle-neck with a yielding pressure, substantially as and for the purpose set forth.

2. In combination in a receptacle-cover, a stopper, an inverted-cup-shaped cover to which the stopper is attached to be drawn simultaneously with the removal of the cover and a wiping device carried by the cover and consisting of an elastic ring held in stretched condition on the lower edge of said cover, substantially as described.

3. In a receptacle-cover, the combination of a cork or stopper of ordinary character,

an inverted-cup-shaped lid and a cone-shaped elastic ring, which may be placed over the neck of bottle or brim of receptacle, said cork being secured to the lid to be removed simultaneously therewith, substantially as and for the purpose set forth.

4. In a receptacle-cover, the combination of a cork or stopper of ordinary character having fastened thereto, over and central thereof, an inverted-cup-shaped lid, together with a cone-shaped elastic ring which, when placed on a bottle or other receptacle will extend down over the neck of said bottle or brim or receptacle, said cork being drawn simultaneously with the removal of the cover, substantially as and for the purpose set forth.

5. In a receptacle-cover, the combination of a cork or stopper of ordinary character, a cup-shaped lid attached thereto having a flange over which is stretched a cone-shaped elastic ring having at either edge thereof enlargements, the smaller of which will pass over the neck of bottle or brim of receptacle and drag thereon, substantially as and for the purpose set forth.

6. In a receptacle-cover, the combination of a cork or stopper of ordinary character, a cup-shaped lid attached thereto, a cone-shaped elastic ring thereon having at either edge thereof enlargements, the smaller of which, will, when placed over the neck of bottle or brim of receptacle drag thereon and when said ring is withdrawn, said enlargement will turn over and drag off to the opposite side against the said neck of the bottle or brim of receptacle, substantially as and for the purpose set forth.

7. In combination, a bottle-stopper, an inverted-cup-shaped cover to which the stopper is attached to be drawn simultaneously with the removal of the cover and a wiping device carried by the cover, substantially as described.

8. In combination, the inverted-cup-shaped cover and a wiper carried by the lower end thereof, said wiper having flexion upwardly into the interior of the cover when the same is forced down and having flexion downwardly in respect thereto when the cover is drawn up, said wiper having a beaded inner edge to turn or roll on the surface of the vessel or neck, substantially as described.

9. In combination, the inverted-cup-shaped cover and a wiper connected to the lower end thereof, said wiper consisting of elastic material in stretched condition extending, when the cover is not in use, substantially in a direct line between the opposite sides of the cover and having an opening to receive the bottle-neck or top of the receptacle therein, the said cover being of a depth to draw the said wiper along the neck of the bottle, substantially as described.

10. A receptacle-cover, consisting of an inverted cup, having an exterior flange on its



lower edge, combined with an elastic ring,  
stretched over said lower edge and flange and  
forming a web, the edge of which bears against  
the exterior of the neck of the bottle or re-  
5 ceptacle to which the cover is applied, sub-  
stantially as described.

In testimony that I claim the foregoing in-

vention I have hereunto set my hand this 13th  
day of November, 1900.

JAS. B. HAMMOND.

Witnesses:

J. A. STITT,

F. L. MIDDLETON.