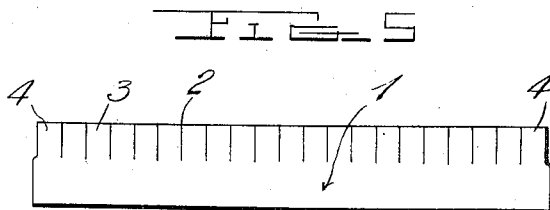
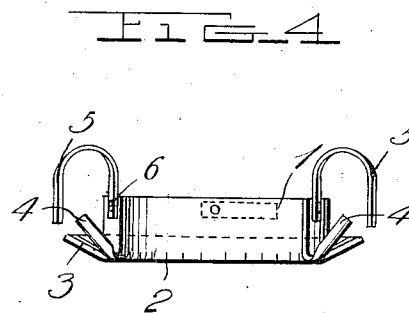
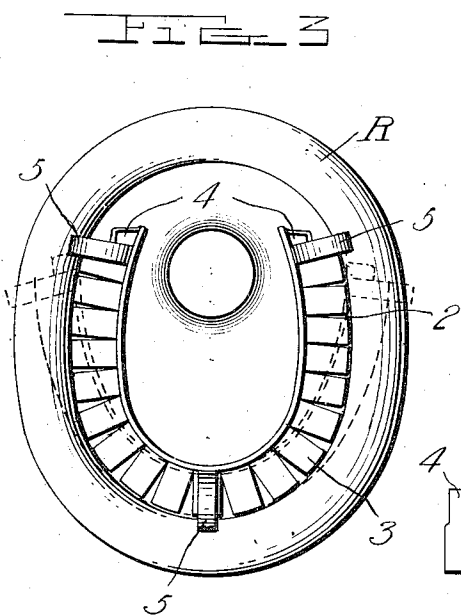
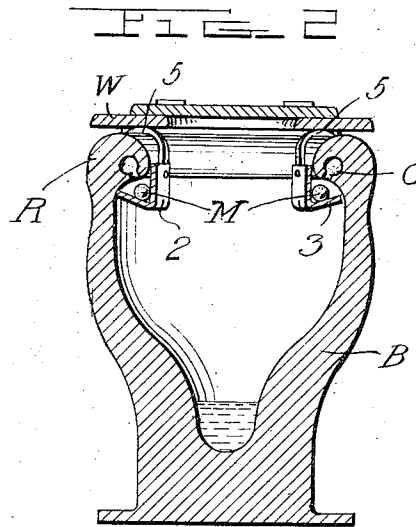
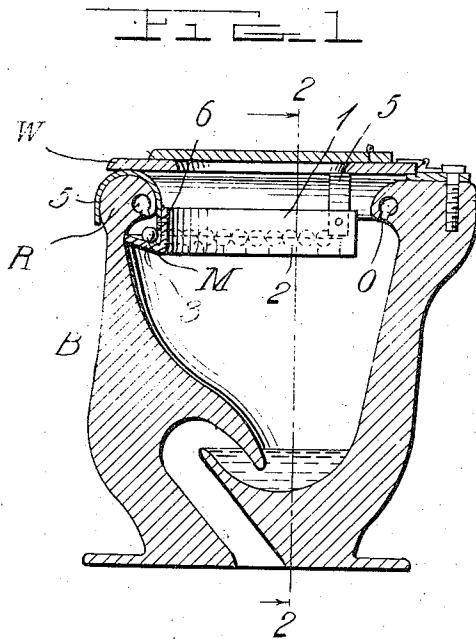


F. W. CARMELICH.  
DISINFECTANT HOLDER.  
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1,064,961.

Patented June 17, 1913.



Inventor

Witnesses

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# UNITED STATES PATENT OFFICE.

FRANK WALTER CARMELICH, OF MOBILE, ALABAMA.

DISINFECTANT-HOLDER.

1,064,961.

Specification of Letters Patent.

Patented June 17, 1913.

Application filed August 14, 1912. Serial No. 715,107.

*To all whom it may concern:*

Be it known that I, FRANK WALTER CARMELICH, a citizen of the United States, residing at Mobile, in the county of Mobile and State of Alabama, have invented certain new and useful Improvements in Disinfectant-Holders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to water closets, and more especially to disinfectant apparatus used therein; and the object of the same is to produce an improved holder for moth balls and similar globular disinfectants which can be sprung into place within the ordinary water closet bowl. This object is carried out by constructing the holder in the manner hereinafter more fully described and as shown in the drawings wherein—

Figure 1 is a vertical section through a closet seat with this improvement applied, and Fig. 2 a similar section at right angles to the section line of Fig. 1, taken on the line 2—2 thereof; Fig. 3 is a plan view showing the holder in the act of being put into position through the opening in the wooden cover; Fig. 4 is a rear elevation of the holder alone, showing one of the hooks in dotted lines as turned down; and Fig. 5 is a plan view of the metal strip from which the body of this holder is made.

Referring to the drawings, the letter B designates the ordinary water closet bowl having a rim R beneath which are outlets O for the water by means of which the bowl is flushed each time it is used, and the present invention is a metallic holder capable of being condensed into small space for purposes of storage and transfer, and sold to the consumer so that he can put it into the bowl of his own closet and charge it with disinfectants such as moth balls and the like.

Coming now more particularly to the details of the present invention, the body of the holder is made from a strip 1 of sheet metal cut along one edge in slits 2 so as to produce a number of individual tongues 3 which are bent upward to a little more than a right angle as shown, thereby producing a channel along the outside of said strip; and the endmost tongues 4 are bent up to a greater degree or a more acute angle so as to close the extremities of this channel. The

entire strip is then bent into substantially horse shoe shape as shown, and it is the intention that the bend of this horse shoe shall stand at the front of the bowl and the open part thereof toward the rear so that the channel containing the moth balls M or similar disinfectant will underlie the rim R of the bowl and thus permit the water passing out the outlets O to moisten the balls each time the bowl is flushed.

The means for supporting this holder within the bowl comprises a plurality of pliable metal hooks 5 each of which is riveted as at 6 to the upright or unslitted portion of the strip 1 so that it may be turned down alongside the same as indicated in Fig. 4 for purposes of storage or transfer, or may be turned upward and its bill passed over the rim R of the bowl B. These hooks being of sheet metal and quite thin, will not interfere with the use of the bowl, especially as the wooden rim W overlies the rim R of the porcelain bowl in the usual construction.

In putting the device into place, the consumer turns the hooks upward around their rivets, then draws the ends of the horse-shoe shaped device toward each other so as to reduce its external size, inserts it into the mouth of the bowl and permits its ends to spring apart; and the bills of the hooks are passed outward over the rim R to hold the parts in position. Meanwhile, however, while the device was being inserted it was pushed to the rear to some extent so that the channel at the front was exposed, and into this exposed portion the operator placed a number of moth balls M or similar disinfectants, which of course ran around within the channel and could not escape therefrom because the endmost tongues 4 are bent upward as described above. The disinfectant holder is then drawn forward into position where it is entirely out of sight save for the bills of the hooks, and as these pass over the rim of the porcelain bowl and are covered by the wooden rim W, even they are invisible. The water closet is used in the ordinary manner, and as soon as it is flushed the water running out the outlet holes moistens the moth balls M and partly dissolves them, and that portion which is washed off falls into the bowl so that the latter is cleansed. Meanwhile and at all times the moth balls give off their odor so as to neu-

tralize the poisonous gases or odors arising from the closet.

The metal from which this device is made may be almost any which may serve the purpose if the holder is not intended for long use; but if it is to be a permanent affair I would prefer to make the device of zinc or of other suitable metal properly treated to prevent corrosion. While I have spoken of moth balls throughout this specification, I of course intend to cover any suitable disinfectant which comes in granular form.

What is claimed as new is:

1. The herein described disinfectant holder for water closet bowls and the like, comprising a channeled member horse-shoe shaped in plan view underlying the front and the two sides of the rim of the bowl and having the rear extremities of its channel closed, and supports rising from said member and adapted to pass over the rim for suspending the channeled member in position.

2. The herein described disinfectant holder for water closet bowls and the like, comprising a sheet metal strip bent into horse-shoe shape and slitted transversely along one side so as to produce a series of tongues, the latter being upbent to form a channel surrounding the member and the endmost tongues being upbent to a greater degree to close the ends of the channel; combined

with means for suspending said member beneath the rim of the bowl as described.

3. The herein described disinfectant holder for water closet bowls and the like comprising a sheet metal strip bent into horse-shoe shape and slitted transversely along one side so as to produce a series of tongues, the latter being upbent to form a channel surrounding the member; combined with means for suspending said member beneath the rim of the bowl, as described.

4. The herein described disinfectant holder for water closet bowls and the like, the same comprising a channeled member of horse-shoe shape in plan view, means for closing the extremities of the channel therein, and supports for said member consisting each of a pliable hook whose shank is pivoted to the inner wall of said channel so that it may be turned down into the same or stood upright, and whose bill is adapted when the hook is stood upright to be passed over the rim of the bowl.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FRANK WALTER CARMELICH.

Witnesses:

JACK F. ROSS,  
ADOLPH B. FERRILL.