H. YOUNG.

CLOSURE FOR GARBAGE CANS.

APPLICATION FILED MAR. 14, 1917.

1,333,051. Patented Mar. 9, 1920.

FIG. 1.

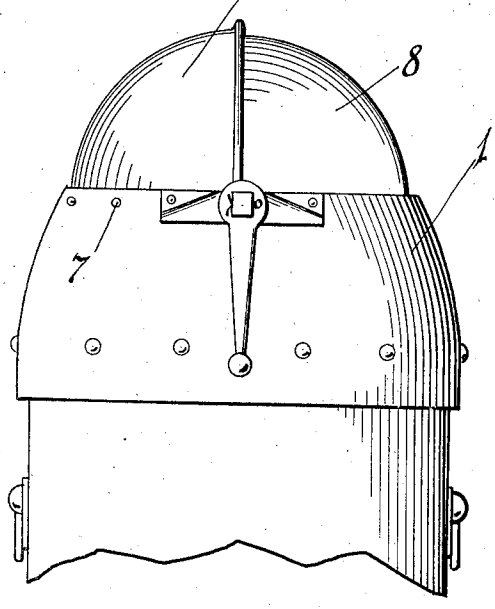


FIG. 2.

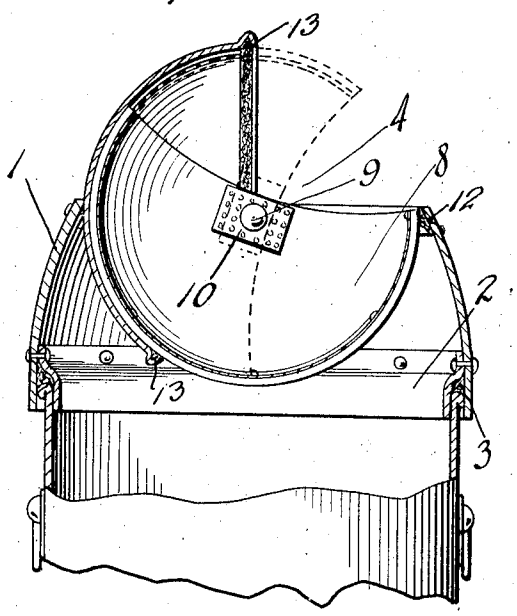


FIG. 4.

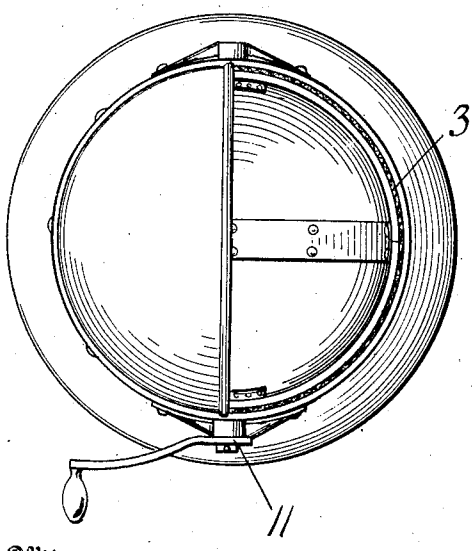
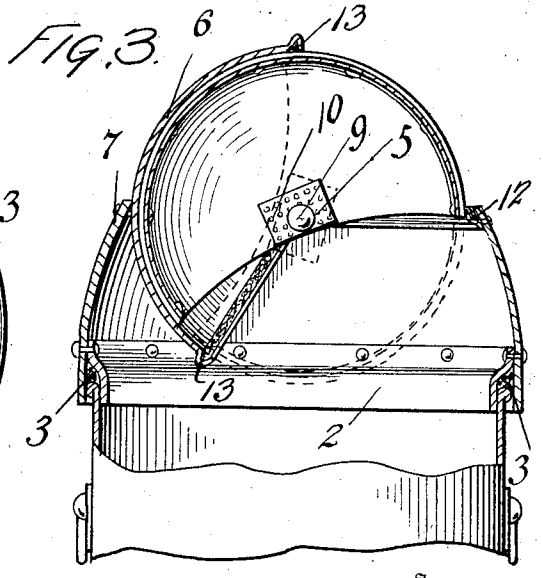


FIG. 3.



Witnesses
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CLOSURE FOR GARBAGE-CANS.

1,333,051. Specification of Letters Patent. Patented Mar. 9, 1920.

Application filed March 14, 1917. Serial No. 154,768.

To all whom it may concern:

Be it known that I, HARVEY YOUNG, a citizen of the United States, residing at Seattle, in the county of King, State of Washington, have invented certain new and useful Improvements in Closures for Garbage-Cans; and I do hereby 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 new and useful improvements in closures for garbage cans, and has for its primary object to provide a device of this character which prevents the escape of obnoxious odors from the can.

A further object of the invention is to provide a device of this character in which all of the material deposited in the closure will be discharged into the can upon the closing operation of the closure.

A further object is to provide means whereby one member of the cover is revoluble within the other for scraping the latter.

A still further object is to provide a construction wherein the cover can be held wide open when it is desired to pour liquid through it.

Referring to the drawing,

Figure 1 is an elevation of a can with the top in place and the cover closed.

Fig. 2 is a vertical sectional view of the device showing the cover in full lines as in receiving position and in dotted lines as open.

Fig. 3 is a vertical sectional view of the device showing the cover in full lines as dumped and in dotted lines in its closed position, and

Fig. 4 is a top plan view of the device with the cover in receiving position.

Referring more particularly to the drawings the reference character 1 designates a substantially frusto-conical rim having at its lower end an internal annular flange 2 to provide an annular space which receives the upper edge of the garbage receptacle. This space may be provided with suitable packing 3 to prevent the escape of gases from the receptacle.

The upper portion of the frusto-conical rim 1 is open as at 4 and is provided at diametrically opposite points with perforations 5, the purpose of which will be hereinafter described.

Within said rim is disposed the cover proper, the same being hollow and globular or spherical in contour, and made up of two members whereof one is fixed and the other is movable within the fixed member to several positions as will be described. The fixed member 6 is slightly less than a hemisphere, its chordal edge standing upright as seen in Fig. 2 and its body filling the rear portion of the upper end of the rim 1 to which it is secured by rivets 7 or otherwise. The movable member 8 is slightly larger than a hemisphere, its chordal edge being preferably cut off on a slight curve as shown, and externally it is of a size and contour to fit rather closely within the fixed member so that it may be moved or revolved therein. At its sides it has lateral trunnions 9 rotatably mounted in the perforations 5 above referred to, and a crank or handle 11 is fixed to the outer end of one trunnion. The inner ends of the trunnion 5 preferably carry disinfectant containers 10.

The upper edge of the frusto-conical rim 1 is provided throughout a portion thereof with packing material 12 which forms a tight joint between said upper edge and the movable member 8. The edge of the opening in the member 6 is provided with a packing 13 to form a tight joint between the members 6 and 8.

In operation the device is placed on the upper end of a garbage receptacle, the upper edge of which lies between the flange 2 and the edge of the frusto-conical rim as shown in Fig. 2. The crank 11 is operated to turn the movable member 8 until its open side is positioned upwardly as shown in Figs. 2 and 4 and the material is then placed within said member 8. When the material has been thus deposited within the member 8 the crank is turned moving said member 8 to the position shown in full lines in Fig. 3 whereupon the material will be dropped into the garbage receptacle, a little of it possibly being deposited on the lower portion of the stationary member 6. Upon further rotation or perhaps complete revolution it will be seen that the edge of the movable member 8 will engage the inner surface of the member 6 and scrape the same to remove any deposit of material thereon and discharge the same into the garbage receptacle. After the cover has thus been employed to receive a charge of garbage, to dump it, and to clean away the surplus left on the member 6, the member 8 is returned to its closed

position as seen in dotted lines in Fig. 3 and in full lines in Fig. 1, and the space between the chordal edge of the fixed member and the open forward portion of the rim is now closed so that no gases can escape.

It sometimes occurs that a large charge of garbage, or perhaps some liquid, is to be put into the receptacle and it is not considered necessary or convenient to go through with the operation just described. In other words, occasion has arisen where the operator wants to pass something directly into the receptacle. The movable member is now turned by its handle to the position shown in dotted lines in Fig. 2 so that its chordal edge is substantially vertical, or at least so far above the open forward portion of the rim that the mouth of the latter is exposed, and the large charge can be inserted therethrough directly into the receptacle.

In view of the foregoing it will be seen that the present invention provides a device of this character which owing to the tight joints of all of the movable parts is practically odorless, and provides a clean and sanitary closure for garbage receptacles.

Having thus described the invention, what is claimed as new is:

In a closure for garbage receptacles, the combination with a rim adapted to be fitted at its lower end over the mouth of the receptacle and having bearings near its upper end at opposite sides; of a hollow cover comprising two substantially semispherical members whereof one is fixed within said rim and rises above its upper end with its chordal edge substantially vertical and the other member is of smaller contour than the first so that it may make a complete revolution therein, trunnions on the smaller member journaled in said bearings, and a handle connected with one trunnion.

In testimony whereof, I affix my signature, in the presence of two witnesses.

HARVEY YOUNG.

Witnesses:

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