H. P. MUTCH.

ODORLESS GARBAGE CAN.

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1,196,385. Patented Aug. 29, 1916.

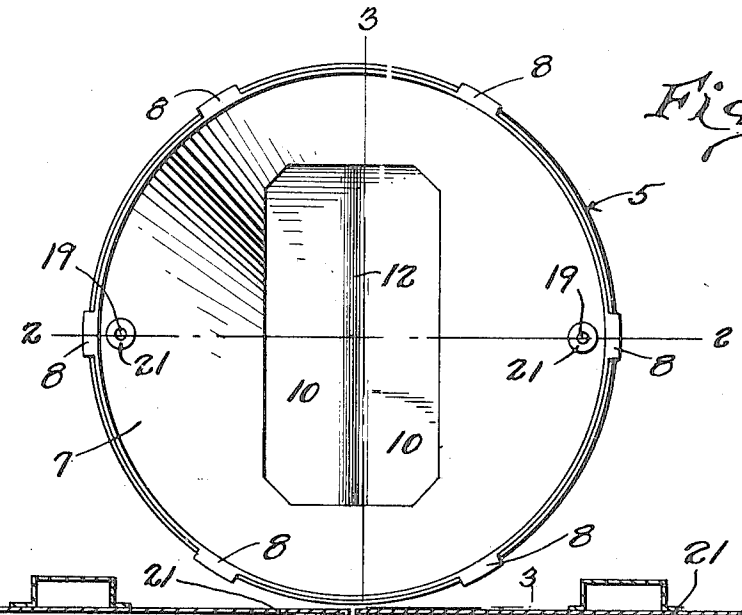


Fig. 1.

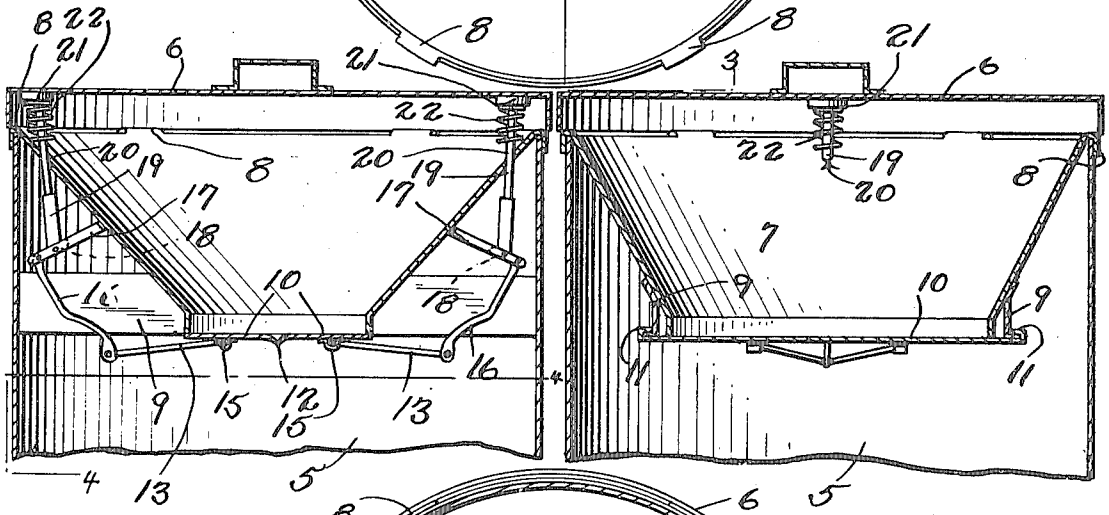


Fig. 2.

Fig. 3.

Fig. 4.

Witnesses

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ODORLESS GARBAGE-CAN.

1,196,385. Specification of Letters Patent. Patented Aug. 29, 1916.

Application filed September 16, 1915. Serial No. 51,070.

To all whom it may concern:

Be it known that I, HARRY P. MUTCH, a citizen of the United States, residing at Hoboken, in the county of Allegheny, State of Pennsylvania, have invented certain new and useful Improvements in Odorless 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 receptacles for receiving garbage or other refuse and is particularly directed to such receptacles including an auxiliary entrance compartment for initially receiving successive deposits of garbage and for projecting such deposits of garbage into the main compartment upon the cover of the auxiliary compartment being closed, so that a free escape of noxious fumes accumulated in the main receptacle may be prevented during the operation of placing a deposit of garbage therein.

An important object of the present invention resides in the provision in a device of the class described of means whereby the application of the cover to the receiving compartment serves to actuate the bottom of said compartment to project garbage or the like contained thereon into the main receptacle, such means normally acting to hold the bottom of the receptacle closed.

Another object is to provide such an auxiliary receiving compartment which may be manufactured as an attachment to be applied to and used in conjunction with garbage cans of ordinary and existing types and which is adapted to be actuated by the usual covers for such cans.

A further object resides in the provision of such a receiving compartment which may be very readily attached to or removed from a garbage can so that free access may be had to the interior of the can to remove garbage therefrom and further so that access may be had to all parts of the associated structure whereby thorough cleaning is facilitated.

A still further object is to provide such a device which is exceedingly simple in design whereby cleaning thereof is further facilitated and whereby the device may be manufactured at a comparatively low cost.

With the above and other objects and advantages in view, the invention resides more particularly in the novel combination, formation and arrangement of parts as more fully described hereinafter and pointed out in the appended claim.

Reference is had to the accompanying drawings, wherein similar characters of reference designate corresponding parts throughout the several views; and in which:

Figure 1 is a top plan view of a garbage can provided with the improved receiving compartment and with the cover of the can removed. Fig. 2 is a sectional view taken vertically through the device on the line 2—2 of Fig. 1 and showing the cover of the can in place thereon. Fig. 3 is a sectional view taken vertically through the device on the line 3—3 of Fig. 1. Fig. 4 is a sectional view taken on the line 4—4 of Fig. 1 and looking upwardly to show the receiving compartment in bottom plan.

Referring now more particularly to the accompanying drawings, 5 designates the upper portion of a garbage can and 6 designates the usual cover therefor.

The improved receiving compartment is positioned in and closes the mouth of the can and comprises the inverted frusto-conical body member 7 which has formed at its upper edge outwardly and downwardly extending projections 8 seating on the upper edge of the can whereby the body member is detachably secured in place. The sides of the body member are compressed so as to provide a substantially oblong opening at the bottom. Carried by the lower portion of the body member and extending parallel to the short sides of said opening are a pair of angular track members 9 and a trap bottom for the compartment is provided comprising a pair of plates 10 slidable across the bottom opening and held for such sliding movement by upwardly and inwardly turned flanges 11 engaging over horizontal portions of the track members. The meeting edges of these plates 10 are turned downwardly at 12 and inwardly inclined to facilitate the discharge of garbage therefrom. The means for moving these plates to a retracted position upon the receptacle cover being applied over the receiving compartment with considerable pressure and for returning the plates to closing position upon such pressure being relieved comprises a pair of yoke members 13 having the free ends of their arms turned outwardly at 14 and pivotally engaged in depending lugs 15 on the bottoms of the plates 10 adjacent

their ends. Pivoted to the bight portion of each of the yoke members is one arm 16 of an angle lever pivoted at its angle between two bracket members 17 projecting outwardly from the intermediate portion of the body member 7 and having its other arm 18 pivoted to a substantially vertical plunger rod 19 extending through a bearing opening 20 in the body member and projected thereabove. The upper end of this plunger rod carries a head 21 and an expansile spring 22 is coiled about its upper end and bears against the head and against the body member to normally hold the various parts described in a position wherein the plates are disposed in closing relation. It is noted that the plunger members for both plate actuating mechanisms are diametrically opposed and it is further noted that the arms 17 of the angle levers are so much relatively shorter than the arms 18 that a very slight movement of the plunger rods is sufficient to cause actuation of the plates 10 to their full retracted position. This movement is effected by pressing downwardly on the cover 6. Thus in the operation of the present device the cover is removed and garbage placed in the receiving compartment and on the plates 10. The cover is then replaced and in replacing it considerable downward pressure is exerted thereon which depresses the plungers and retracts the plates to project the garbage into the bottom of the can 5. Upon such pressure being relieved the plates are moved back to closing position by action of the springs 22.

The entire receiving compartment may be removed from the cam 5 to permit emptying of the can and to permit efficient cleaning of the whole structure described simply by grasping the heads 21 and lifting the compartment structure.

While I have illustrated and described a particular embodiment of my invention, I have merely done so for the sake of convenience and I do not wish to be limited to that particular embodiment as it is obvious that numerous changes may be made within the details of construction thereof without in any way departing from the spirit of the invention or exceeding the scope of the appended claim.

What I claim is:

An auxiliary compartment member adapted to be associated with a main receptacle to discharge thereinto, a pair of plates carried by said member and slidable across the bottom thereof to close the same, a pair of plunger rods carried by the member and adapted to project beyond its mouth within the periphery thereof, lever members connecting said plungers with respective plates and a cover for the member.

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

HARRY P. MUTCH.

Witnesses:

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