

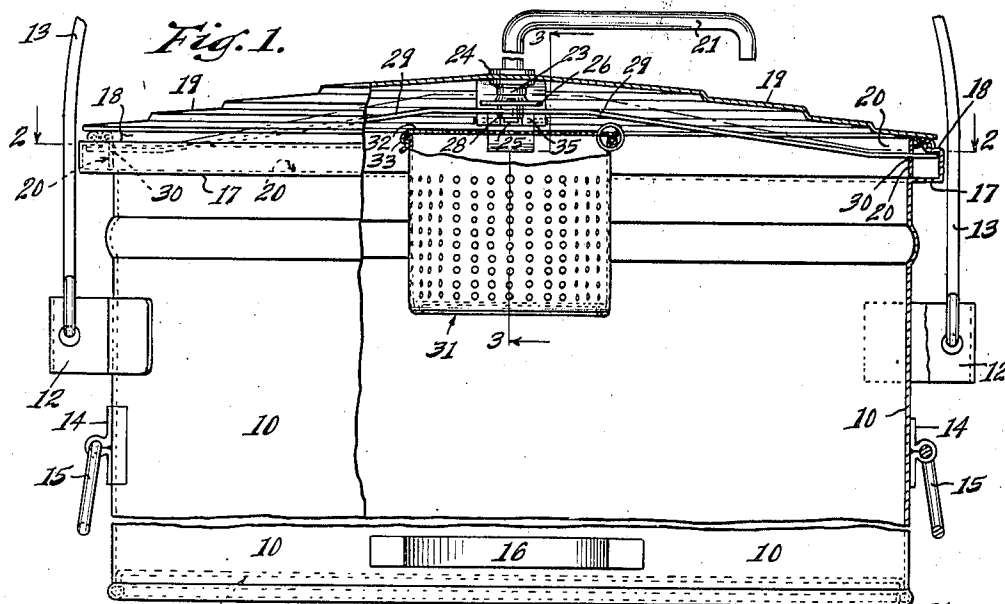
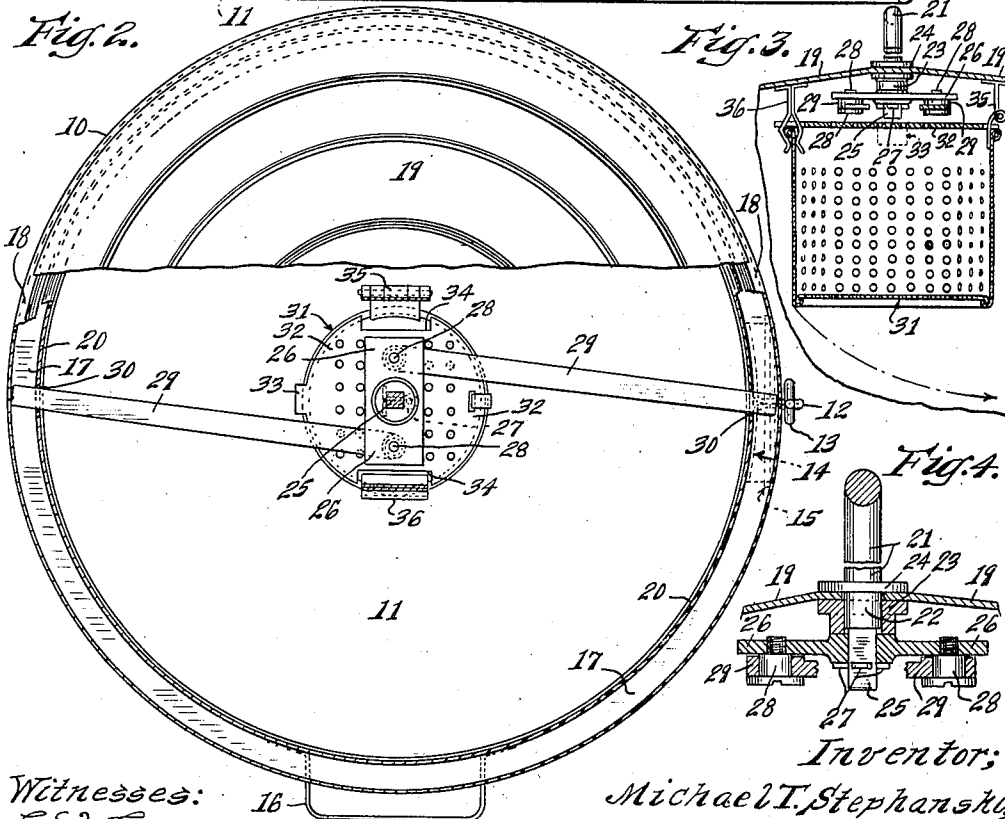
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DISINFECTANT RECEPTACLE FOR GARBAGE CANS

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DISINFECTANT RECEPTACLE FOR
GARBAGE CANSMichael T. Stephansko, Chicago, Ill., assignor of
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6 Claims. (Cl. 220—87)

This invention relates to disinfectant receptacles or holders for garbage cans, so as to deodorize the contents and dispel odors therefrom.

The object of the invention is to provide means for disinfecting garbage cans and the like which may be economically produced and is so supported as not to interfere with but on the other hand to readily accommodate fastening means for the can cover and which is readily accessible for placing or renewing the disinfectant.

Another object of the invention is to provide a novel, simple and efficient holder or receptacle within the can to deodorize the contents and dispel odors, thereby improving sanitary conditions.

Another object of the invention is to provide a novel receptacle for a disinfectant disposed beneath and suspended from a garbage or refuse can cover so as to be removable therewith, and so mounted as to facilitate replenishing of the disinfectant material as well as to accommodate retractable fastening means adapted to be projected for securing the cover in position to close and seal the open top of the can or to be retracted for removal in depositing of garbage therein or for emptying the can.

Further objects and advantages will appear and be brought out more fully in the following specification, reference being had to the accompanying drawing, in which:

Fig. 1 is an elevation of the garbage can partly broken away, partly in elevation and in section showing the disinfecting receptacle;

Fig. 2 is a horizontal section taken on line 2—2 of Fig. 1;

Fig. 3 is a fragmentary vertical sectional elevation taken on the line 3—3 of Fig. 1; and

Fig. 4 is an enlarged vertical section, also on line 3—3.

Referring more particularly to the drawing, 10 designates the body of a refuse or garbage can commonly made of galvanized iron and of cylindrical form. This can is provided with a bottom 11 which may be flanged and beaded to permit the attachment of a hinge or other means for anchoring the can by means of a chain or otherwise, to a cement or other foundation to prevent theft or removal of the can from a desired position. The top of the can is open and adapted to be closed by a cover and held by a novel fastening means to be hereinafter more particularly described. At diametrically opposite sides of the can, cleats or straps 12 may be provided and fastened by welding or rivets. These cleats form pivot ears for a bail or handle 13, the ends of

which are pivoted in the cleats or straps 12 so as to swing up for use or down against one side of the can when not in use. In addition, straps 14 may be provided on the sides of the can beneath the cleats 12 to pivotally mount handles 15. In conjunction with the bail 13, a handle 16 is provided on the body near the bottom and equidistantly between the diametrically opposite sides on which the bail 13 is pivoted so as to facilitate emptying of the can.

The open top of the can is provided with a circumferential channel bead 17 offset outwardly around the rim, and having an inwardly extending beaded top flange 18 which preferably extends only partially over the out-turned bottom flange of the channel and preferably integrally formed therewith. An arched cover 19 is designed to close the can and has an annular depending flange 20 spaced from its outer or peripheral edge and reinforced or beaded as shown at its juncture with the cover. The depending flange 20 is disposed substantially in line with the body wall and substantially engages the bottom flange of the channel 17 so as to provide a seal at this point while the cover outwardly of the flange 20 seats upon the beaded top flange 18 of the channel or rim, thereby providing a dual seal for the closure.

A radially extended handle 21 of substantially right angular form and preferably with its outer end curved downwardly has a vertical pivot portion 22 mounted to turn in a bearing 23 apertured to receive the circular depending portion of the handle and secured to the bottom face of the cover around the aperture in the center thereof. The depending portion of the handle has a flange 24 secured thereto to turn on the cover and limit the downward displacement of the handle 21 at its bearing portion while beneath the latter a squared or polygonal portion 25 is provided to snugly fit a corresponding central aperture in a cross-arm or plate 26 held thereon in any suitable way as by means of a cotter pin 27 extending through the squared portion beneath the cross-arm. Pivotal connections 28 are provided on diametrically opposite sides of the pivot axis of the handle 21 and cross-arm 26 and arms or bolts 29, preferably consisting of flat bars are designed to snugly extend and slide through slots 30 provided at diametrically opposite sides of the depending flange 20 and adapted to be retracted to positions such that the outer ends thereof are in substantial alignment or flush with the outer face of the flange 20 so

that the cover may be placed in position or removed. In this position, the arms 29 are substantially parallel to each other across the corners of the plate forming the cross-arm 26 and this movement may be limited by engagement of the arms 29 with the pivot axis or the cotter pin 27. When the cover is in position so that the flange 20 will seat upon the bottom side or flange of the channel 17 and the cover outwardly of the flange 20 also engage the beaded edge of the top flange 18, an effective double seal will be provided to prevent the escape of odors from within the can. Also in this position, by turning the handle 21 90 degrees more or less, the cross-arm 26 will also be correspondingly turned to project the arms or bolts 29 through the slots 30 and outwardly in opposite directions to engage the beaded channel 17 beneath and in contact with the top flange 18 in any position, thus securely fastening the cover in position and against accidental displacement. In this way, should the can be knocked or turned over on its side, spilling and scattering of the contents will be effectively prevented.

It should also be noted from the drawings that the cross-arm is relatively close to the bottom face of the cover but slightly spaced therefrom due to the pivot bearing 23 which takes the form of a boss or collar on the bottom of the cover but permits the mounting of a foraminous or perforated receptacle 31 in spaced relation therebeneath for containing a disinfectant, preferably naphthalene for dispelling odors. In order to mount this receptacle 31 in spaced relation to the bottom of the cover 19 to provide a space between the latter and the top of the receptacle 31 for accommodating the cover fastening means of the can, the receptacle is provided with a perforated hinged cover 32 having a spring catch 33 engaged over the beaded rim of the receptacle to hold the cover 32 closed. The cover 32 is provided with diametrically opposite parallel slots 34 in its edge normal to a line connecting the hinge and catch of the cover 32. The receptacle is hinged to the bottom face of the cover 19 of the can 10 through one of the slots 34 as indicated at 35 in such a manner as to suspend pivot of the hinge 35 in spaced relation below the cover 19. At the opposite slot 34, the receptacle 31 at its beaded rim is designed to be engaged by a spring clamp or catch 36 consisting of opposed spring arms fastened to the bottom of the cover on the diametrically opposite side of the pivot axis of the handle and depending therefrom to enter the other slot 34 and straddle or receive and resiliently engage or grip the beaded rim edge of and hold the receptacle 31 in a suspended position at the center of the can so that the disinfectant fumes will deodorize and dispel the odors from the contents. At the same time, the receptacle may be readily disengaged from the spring clamp or catch 36 to drop down on its pivot hinge 35 so that the cover 32 may be opened for insertion of the disinfecting material and then closed and engaged with the spring clamp to hold it in the position more particularly shown in Figs. 1 and 3 of the drawing.

From the foregoing, it will be seen that I provided a very desirable and efficient construction for refuse or garbage cans to the end that it may efficiently serve its purpose and facilitate handling thereof and disinfecting the same.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation

and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having thus described my invention, what I claim is new and desire to secure by Letters Patent is:

1. A disinfectant receptacle for garbage cans and the like comprising a perforated receptacle having a cover hinged at one side and a catch for securing the same at the opposite side, said cover having diametrically opposite edge recesses normal to a line connecting the hinge and catch, a cover for the can, a hinge suspending the receptacle through one recess from beneath the can cover and a spring catch carried beneath the can cover to detachably engage the receptacle through the other recess.

2. A disinfectant receptacle for garbage cans having a cover, consisting of a perforated receptacle having a beaded rim, a hinged cover for the receptacle having diametrically opposite slots at its edge over the rim, a hinge suspending the receptacle from the bottom of the can cover through one slot and a spring clamp hung from the underside of the can cover for releasably engaging the beaded rim and holding the receptacle at the other slot, the receptacle and the cover of the receptacle being in spaced relation to and under the can cover.

3. The combination with a garbage can having an open top and a rim, a cover for the can, means beneath and carried by the cover in spaced relation thereto and operable externally over the cover to engage the can beneath the rim for securing the cover in position, and a foraminous disinfectant-containing receptacle having a hinged top closure with openings in its edge spaced on opposite sides of the hinge, said receptacle being hingedly suspended at one side and detachably suspended at the other side through the openings in its closure on opposite sides of and beneath the can-engaging part of the cover-securing means from and in spaced relation to the under side of the cover, to accommodate the can-engaging part of the securing means for the cover between the under side of the cover and the top of the receptacle and to permit the receptacle to swing down on its hinged suspension so that the receptacle closure may be opened for insertion of disinfecting material, and means to detachably fasten the receptacle closure in closed position at the side opposite the hinge thereof, whereby the receptacle may be swung upwardly for engagement with its detachable suspension.

4. A disinfectant receptacle for garbage cans and the like having a removable cover, comprising a perforated receptacle having an open top with a beaded rim, a hinged cover with opposite slots and a spring catch engaged over the beaded rim to hold the hinged cover closed and for obtaining access to the interior thereof, and means for supporting the receptacle beneath the cover in spaced parallel relation thereto, including a hinged mounting at one side suspended from the can cover and extending through one slot, and a spring catch detachably securing the receptacle to the can cover at the opposite side against dropping down on the hinged mounting.

5. A disinfectant receptacle for garbage cans having a cover, consisting of a perforated receptacle, a perforated cover for the receptacle hav-

ing diametrically opposite slots, a hinge at one side of the receptacle suspending the receptacle from the can cover through one slot, and means carried by the can cover at the other side of the receptacle and engaged through the other slot and with the wall of the receptacle at its rim for releasably holding the receptacle in an upright position, so that the receptacle is suspended from under the can cover and the cover of the receptacle is horizontally positioned.

6. A disinfectant receptacle for refuse cans having a cover, consisting of a perforated receptacle having an open top, a cover for the recep-

5 tacle having slots at its edge, a pivoted suspension for the receptacle from the under side of the can cover through one slot, and a spring catch depending from the under side of the can cover for detachably engaging and holding the receptacle through the other slot so that the receptacle and the cover thereof are detachably suspended from the can cover to swing down, to permit opening of the cover of the receptacle to 10 obtain access to the interior of the receptacle and prevent opening of the receptacle cover when the receptacle is in raised position.

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