Aug. 3, 1943. M. T. STEPHANSKO 2,325,808

GARBAGE CAN

Filed Oct. 23, 1941

Fig. 1.

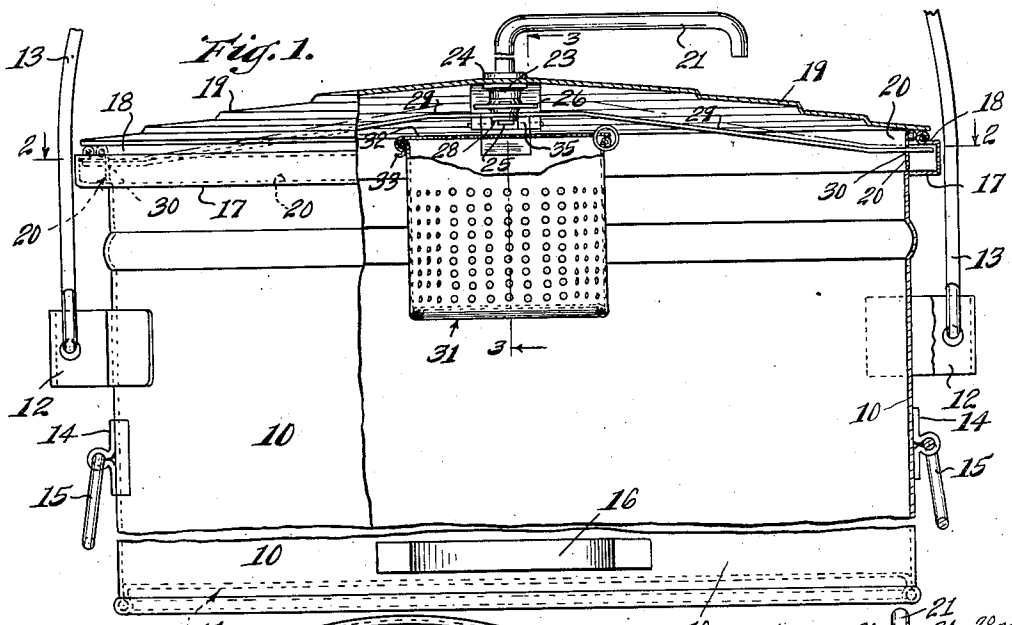


Fig. 2.

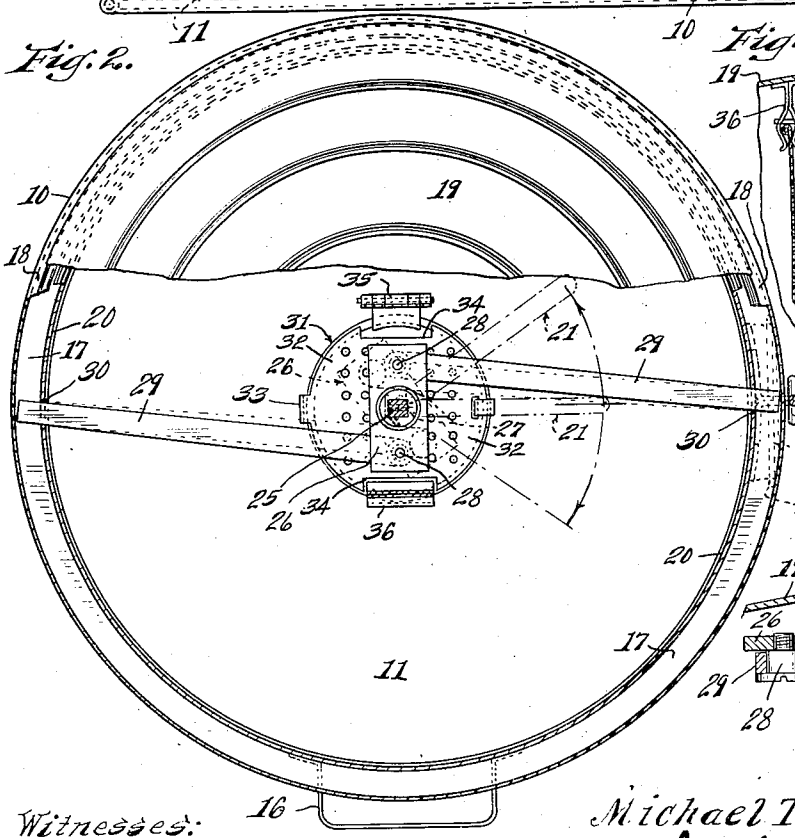


Fig. 3.

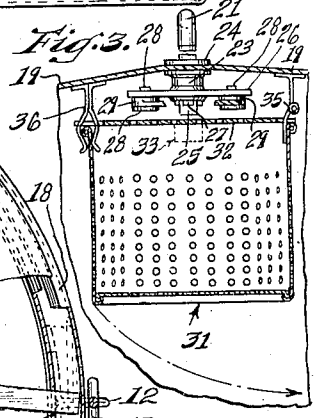
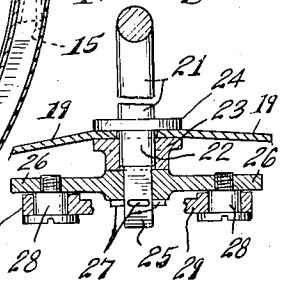


Fig. 4.



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# UNITED STATES PATENT OFFICE

2,325,808

## GARBAGE CAN

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Application October 23, 1941, Serial No. 416,165

7 Claims. (Cl. 220—25)

My invention relates to garbage or refuse cans, and the main object thereof is to provide a novel and simple cover and fastening means therefor, which will effectively hold the cover in position to prevent spilling of contents or opening thereof by stray dogs or cats and also provide a dual seal for the can against the escape of offensive odors.

Another object of the invention is to provide a novel and simple means for fastening the cover into position to close and double seal the can, irrespective of the position of the cover and fastening means circumferentially of the can, the can having a circumferential rim flange and channel and seating engagement by a depending flange of the cover and handle operated concealed and protected locking or fastening means being provided on the underside of the cover to engage in said channel when the cover is in position to prevent the cover from accidently coming off or being displaced, such as when the can is accidently or mischievously knocked or turned over on its side, thereby preventing spilling and scattering about of the contents.

Still another object of the invention is to provide a fastening means for the cover of a garbage or refuse can which, is so posed as to accommodate a receptacle on the underside for containing a disinfectant which will dispel odors.

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;

Fig. 2 is a horizontal sectional elevation 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 pivoted thereto and 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 sub-

stantial 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 engages 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 around or circumferentially of the can and channel, 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 drawing 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 there beneath for containing a disinfectant, preferably napthalene for dispelling odors. In order to mount this receptacle in spaced relation to the bottom of the cover to provide a space between the latter and the top of the receptacle for accommodating the cover fastening means, 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 the 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 36 consisting of opposed spring arms fastened to the bottom of the cover 19 on the diametrically opposite side of the pivot axis of the handle and depending therefrom to receive and resiliently 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 36 to drop down on its pivot hinge 35 so that the cover 32 or receptacle 31 may be opened with the slots 34 clearing the spring clamp 36 and the hinge 35 for insertion of the disinfecting material and then closed and engaged with the spring clamp 36 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 provide 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.

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. The combination with a can body having a rim channel adjacent its top edge with a bottom portion and a top portion extending partially over the bottom portion, a cover having a depending flange within the top portion and engaging the bottom portion to close and seal said channel and fastening means carried by the cover and operable from the top thereof to engage said channel for securing said cover in position.

2. The combination with a can body having a rim channel forming top and bottom flanges and open at the inside, a cover having a depending flange near its surrounding edge engaging the inner edge of the top flange and seating entirely around and against the bottom flange, a handle pivoted to the cover and extensible and retractible means connected to the handle beneath the cover and operable through the flange of the cover to engage or disengage beneath the top flange of the channel.

3. A garbage or refuse can including a body having an outwardly projecting rim bead providing an internal groove with a beaded top portion and a bottom portion extending inwardly of the top portion and a cover having a depending surrounding flange spaced from the edge of the cover to seat at its bottom edge against the top face of the bottom portion of the bead and the cover seating against the beaded top portion of the bead outwardly of the flange.

4. A garbage or refuse can including a body having a circumferential channel opening inwardly with a top flange terminating over and spaced from the inner edge of the bottom flange thereof and a cover above the top of the body seating upon said top flange and having a depending cotinuous flange spaced from the peripheral edge of the cover to abut the inner edge of the top flange and seating upon the bottom flange.

5. A garbage or refuse can including a body having a circumferential channel opening inwardly with a top flange terminating over the bottom flange thereof, an upwardly arched cover seating upon said top flange and having a depending annular flange spaced from the peripheral edge of the cover reenforced at its juncture with the cover to abut the inner edge of the top flange and seating at its bottom edge upon the bottom flange, a handle having a vertical portion mounted to turn centrally through the cover and depending therefrom, a cross-arm fixed to the depending portion below the cover and arms pivoted to the cross-arm at opposite sides of the pivot thereof and extending through slots in the depending flange to engage the channel in any position of the cover on the can body.

6. A can of the class described including a cylindrical body having an annular rim channel circumferentially of the top edge thereof, a cover over the body and seating upon the rim of the body and channel and having an annular depending flange at the inner side of the channel with diametrically opposite slots, the top wall

of the channel having a rolled inner edge engaged by the cover outwardly of the flange and the flange having a rolled top edge engaging the aforesaid rolled edge outwardly of the wall of the body and the bottom edge of the flange seating upon the bottom wall of the channel adjacent the inner edge thereof, a handle having a portion pivoted centrally in the cover, a cross-arm fixed to the central portion beneath the cover and bolts pivoted to the cross-arm and having the end portions thereof extending through the slots whereby when the handle is turned the bolts will be projected into the channel or retracted therefrom.

7. A can of the class described including a can body having a rim channel at the top open only at the inside and having a top flange with its inner edge terminating over the bottom flange in spaced relation to the wall of the can body and inner edge of the bottom flange, a cover over and above the top edge of the body and having a rigid depending annular flange spaced from the peripheral edge thereof to extend within the channel with its bottom edge seating upon the bottom of the channel, said flange engaging the inner edge of the top of the channel and the cover outwardly of the flange engaging the top of the channel to form a dual seal.

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