

Jan. 6, 1948.

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2,434,238

COMBINED CONTAINER AND DISPENSER

Filed Nov. 10, 1945

2 Sheets-Sheet 1

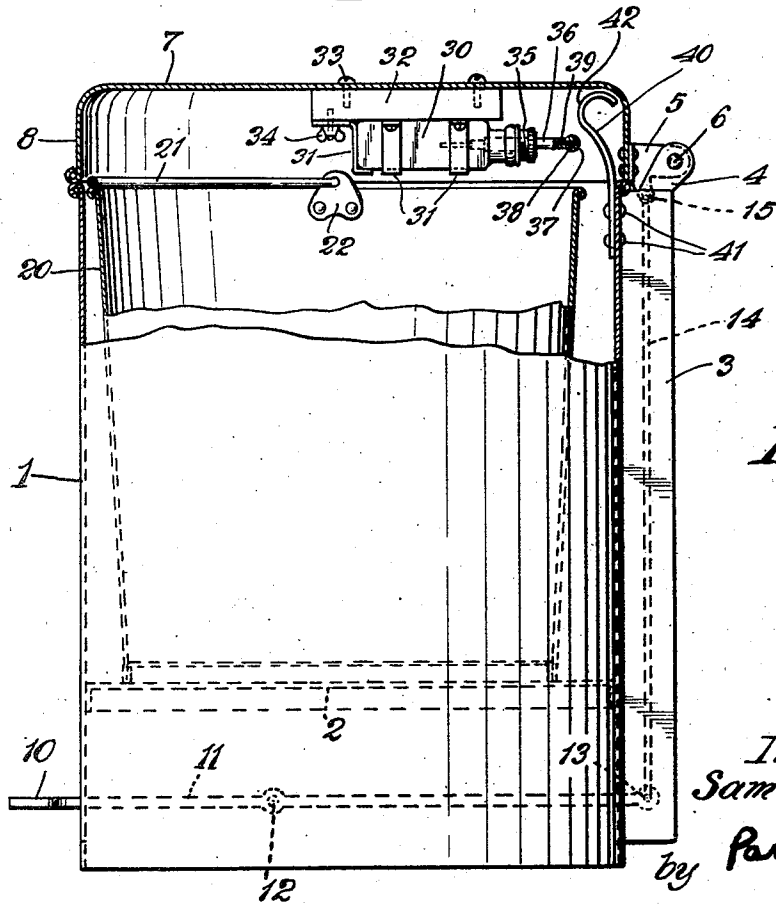
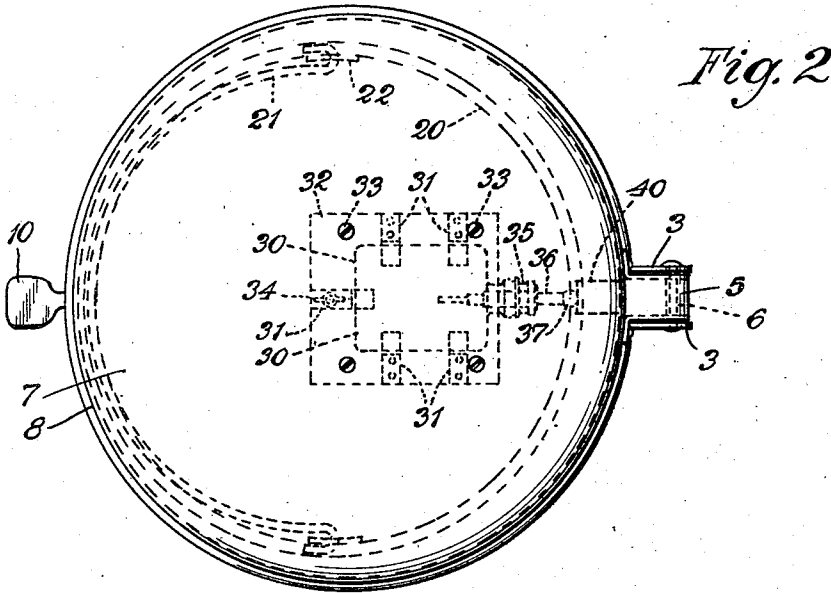


Fig. 1

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2 Sheets-Sheet 2

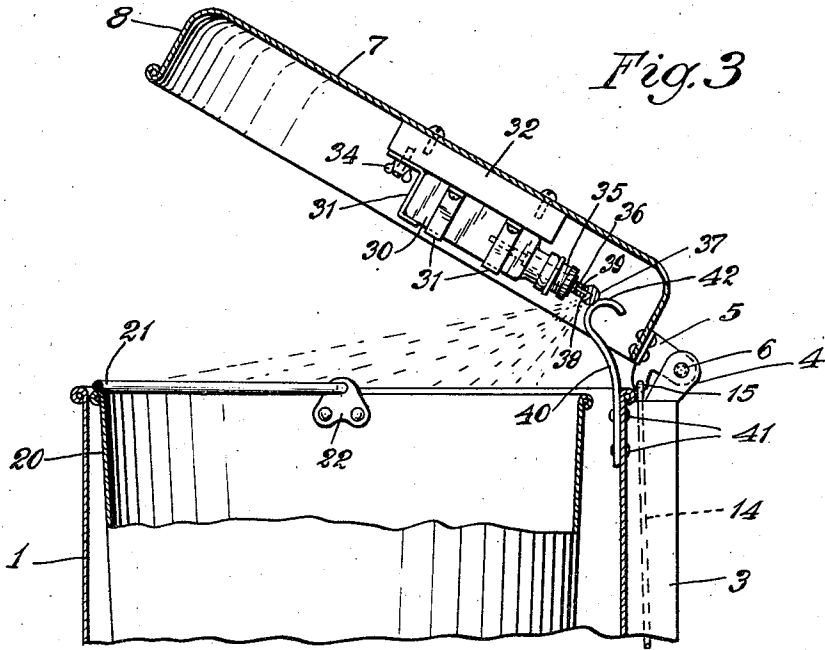


Fig. 3

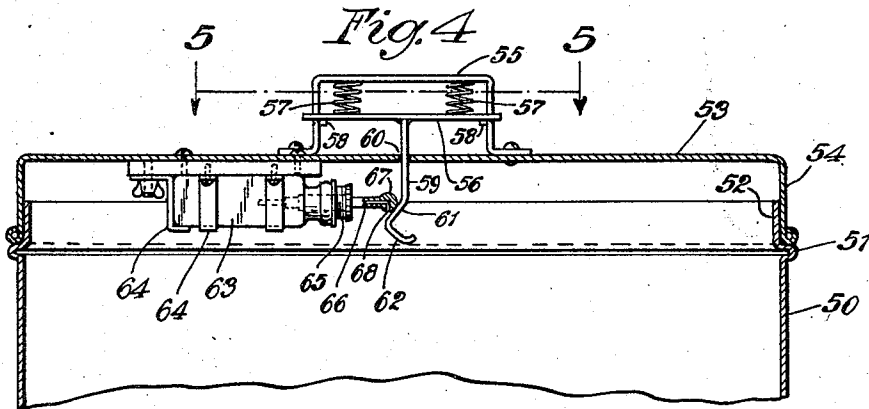


Fig. 4

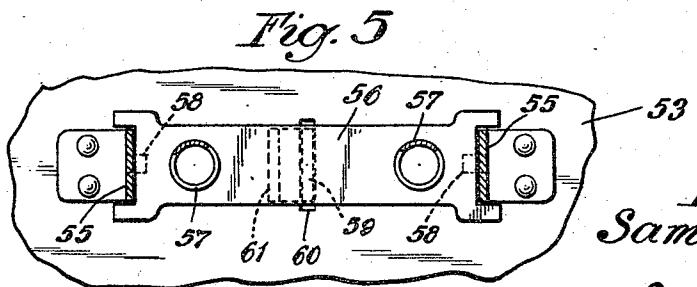


Fig. 5

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UNITED STATES PATENT OFFICE

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COMBINED CONTAINER AND DISPENSER

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2 Claims. (Cl. 220—87)

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My invention relates to an improved container and dispenser.

One purpose is to provide a container having a movable or removable cover, and including means for dispensing a deodorant when the cover is moved.

Another purpose is to provide improved means for deodorizing the contents of containers, including but not limited to garbage or trash containers.

Another purpose is to provide a container including foot pedal means for raising and lowering a lid, together with means for dispensing a deodorant when the lid is raised or lowered.

Other purposes will appear from time to time in the course of the specification and claims.

I illustrate the invention more or less diagrammatically in the accompanying drawings, wherein:

Figure 1 is a side elevation with parts in vertical section;

Figure 2 is a plan view of the structure shown in Figure 1;

Figure 3 is a section similar to Figure 1, illustrating the parts in a different position;

Figure 4 is a vertical axial section through another form of the device; and

Figure 5 is a section on an enlarged scale on the line 5—5 of Figure 4.

Like parts are indicated by like symbols throughout the specification and drawings.

Referring to the drawings, I illustrate an outer can or container 1, which is herein shown as generally cylindrical and which has a partition 2 located somewhat above the lower edge of the container. Extending along one side of the container is a vertical housing including side walls 3, 3, terminating in ears 4. Pivoted between the ears 4 is a lid bracket 5 which is rotatable on or with the pivot pin 6. The lid 7 has a circumferential flange 8 which is riveted or otherwise secured to the bracket 5. It will be noted that the ears 4 and the bracket 5 are shown as at or above the plane of the upper edge of the container 1. 10 is the exposed pedal of an actuating lever 11 which is pivoted as at 12 within the space below the partition 2. The lower portion of the cylinder 1 is slotted or cut away to permit vertical movement of the pedal 10. The opposite end of the lever 11 is pivoted as at 13 to an actuating rod 14, extending between the walls 3. The upper end of the rod 14 is pivoted to the bracket 5, for example to a downwardly extending ear 15. It will be understood that the lid 7 may be raised by a downward pressure of the foot on the pedal 10, and may be lowered by releasing the pressure

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on the pedal 10. Removably positioned within the housing 1, and resting upon the upper surface of the partition 2, is any suitable removable container 20, shown as having a handle bail 21 pivoted to the lugs or ears 22. It will be understood that any desired material, such as garbage or refuse, may be deposited in the container 20. When it is desired to put material in the container 20, or to remove the container 20, the user presses downwardly on the lever 10 to raise the cover 7. When the cover 7 is in the raised position, material can be inserted into the container 20, or the container can be removed.

I find it advantageous to provide spraying or dispensing means which are actuated by the movement of the lid 7. For example, where my invention is being used as a kitchen garbage receptacle, it is advantageous to release a deodorant every time that the lid 7 is raised and lowered. I illustrate, for example, a deodorant container 30, which may be in the form of a bottle secured by any suitable brackets or clamps 31 to a base 32 anchored on the inner surface of the lid 7, for example by screws 33. These securing brackets 31 may be removably held in position, for example by thumb nuts 34. Thus, the container 30 may be replaced, or may be removed for refilling. As a convenient means for spraying the deodorant held in the container, I provide a plug or closure 35 in which a spraying stem 36 is slidably mounted. It is shown as including a head 37 penetrated by a discharge aperture 38 in communication with a longitudinal feed aperture 39. The aperture 38 is so inclined as to deliver a spray into or across the top of the container 20. In order to provide actuating means for the stem 36, I illustrate a cam 40, in the form of a bent metal tongue or strap. It is secured at its lower end, as at 41, to the inner face of the upper edge of the container 1. It is shown as having a forwardly curved cam portion 42. The parts are preferably so formed and placed that when the lid 7 is raised the head 37 engages the cam portion 42 and the stem 36 is thrust inwardly toward the container 30. The result is a discharge of spray or liquid through the discharge aperture 38. In the particular form of cam shown in Figure 1, the parts are so proportioned that when the lid 7 is entirely raised, the head 37 overrides and passes beyond the cam 42. Thus, when the lid 7 is again lowered, a second discharge of material takes place.

It will be realized that whereas I have described and shown a practical and operative device, nevertheless, many changes in size, shape,

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number and disposition of parts may be made without departing from the spirit of my invention. I, therefore, wish my drawings to be taken as in a broad sense illustrative and diagrammatic, rather than as limiting me to the specific showing of the description and drawings.

For example, I illustrate in Figure 4 a type of can or container including a can body 50, which may be cylindrical or otherwise formed and which has, near its upper edge, an outwardly extending flange 51 and an upper generally cylindrical edge portion 52. Telescoping the portion 52 and resting upon the flange 51 is the cover generally indicated as 53 and including a cylindrical downwardly extending edge flange 54. Secured to the cover 53 is a handle 55. Slidable along the handle is a spray actuating element 56. It is normally held in the downward position in which it is shown in Figure 4, for example by springs 57 which urge it downwardly against any suitable lugs or abutments 58. Extending downwardly from the member 56 is the spray actuating stem 59 which passes through an aperture 60 in the cover 53 which includes a cam portion having cam faces 61 and 62. 63 is a container which may be removably secured to the inside of the cover 53 for example by any suitable holding elements 64. It is shown as having a plug 65 in which is movable a spray element 66 with its head 67 and its spray outlet 68. It will be understood that when the user wishes to raise the lid he grabs the handle 55. As he pulls upwardly he raises the member 56, and cannot lift the handle until the member 56 has been moved upwardly toward the member 55. Thus the first result of an upward pull is to move the cam surface 61 against the head 67 causing a spray to be discharged from the outlet duct 68. The ports may be so proportioned, if desired, that the stem 59 will move upwardly a sufficient distance to cause the head 67 to override the cam surface 62. In that event, when the user has returned the cover 53 to place, and releases the handle, the springs 57 move the member 56 downwardly and cause a second spray discharge.

The use and operation of the invention are as follows:

I illustrate a structure which may be advantageously employed in connection with domestic garbage containers. It will be understood, however, that it may be employed with a wide variety of containers, and with containers employed for a wide variety of uses. Whereas I illustrate it as applied to a hinged container, I do not wish to be limited to the use of my invention with hinged containers. It may be applied to any type of container where a hinge or cover or door has to be lifted or opened in order to get access to the contents of the container. It

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may be applied for use in deodorizing the contents of the container, or in delivering a disinfectant. If desired, material for the extermination of insects or vermin may be dispensed. Whereas it is particularly useful in connection with garbage containers, it may also be used with trash containers or with containers used in doctors' or dentists' offices, or in hospitals, hotels, restaurants and the like. The invention is also applicable for industrial purposes, for example in factories where many materials are stored, either during use or after use, in closed containers, and may have an unpleasant odor. If inflammable materials are stored, involving a fire menace, I may provide a fire-proofing or a fire extinguishing material, to be dispensed when the container is opened.

It will be understood that whereas I describe and show my invention as applied to a container with a closed top or cover or closure, it may be employed in connection with containers which do not need a closed top; for example I may employ my invention in connection with a toilet seat in which, when the seat portion proper is raised or lowered, a disinfectant or a deodorant is released or expelled.

I claim:

1. A container including a body and a lid hinged on said body for rotation about a generally horizontal axis generally adjacent the top of the container body, a liquid container mounted on the lid for movement therewith, a movable ejector member for said liquid container, and means for moving said ejector member to liquid ejecting position in response to the movement of said lid, including a camming contact member mounted on the container body and located adjacent the top of said body, and in the path of movement of the ejector member as said ejector member moves in the course of the normal raising or lowering of the lid to or from closed position, said camming member having a two-way cam surface.

2. The structure of claim 1 in which the camming contact member is located adjacent the axis of said lid.

SAM WOLFSON.

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