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GARBAGE AND OUTDOOR-TOILET LID ATOMIZER

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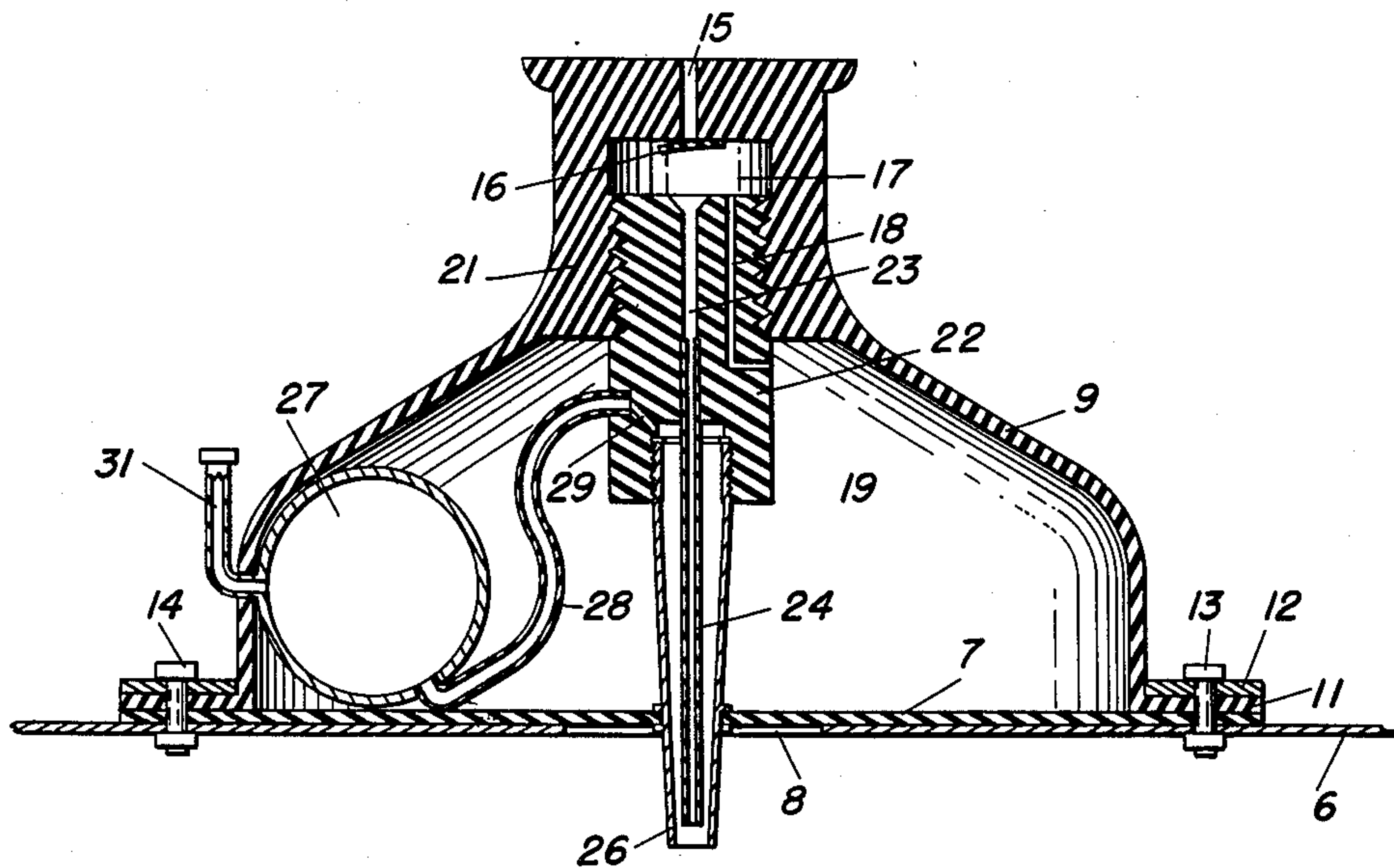


Fig 1

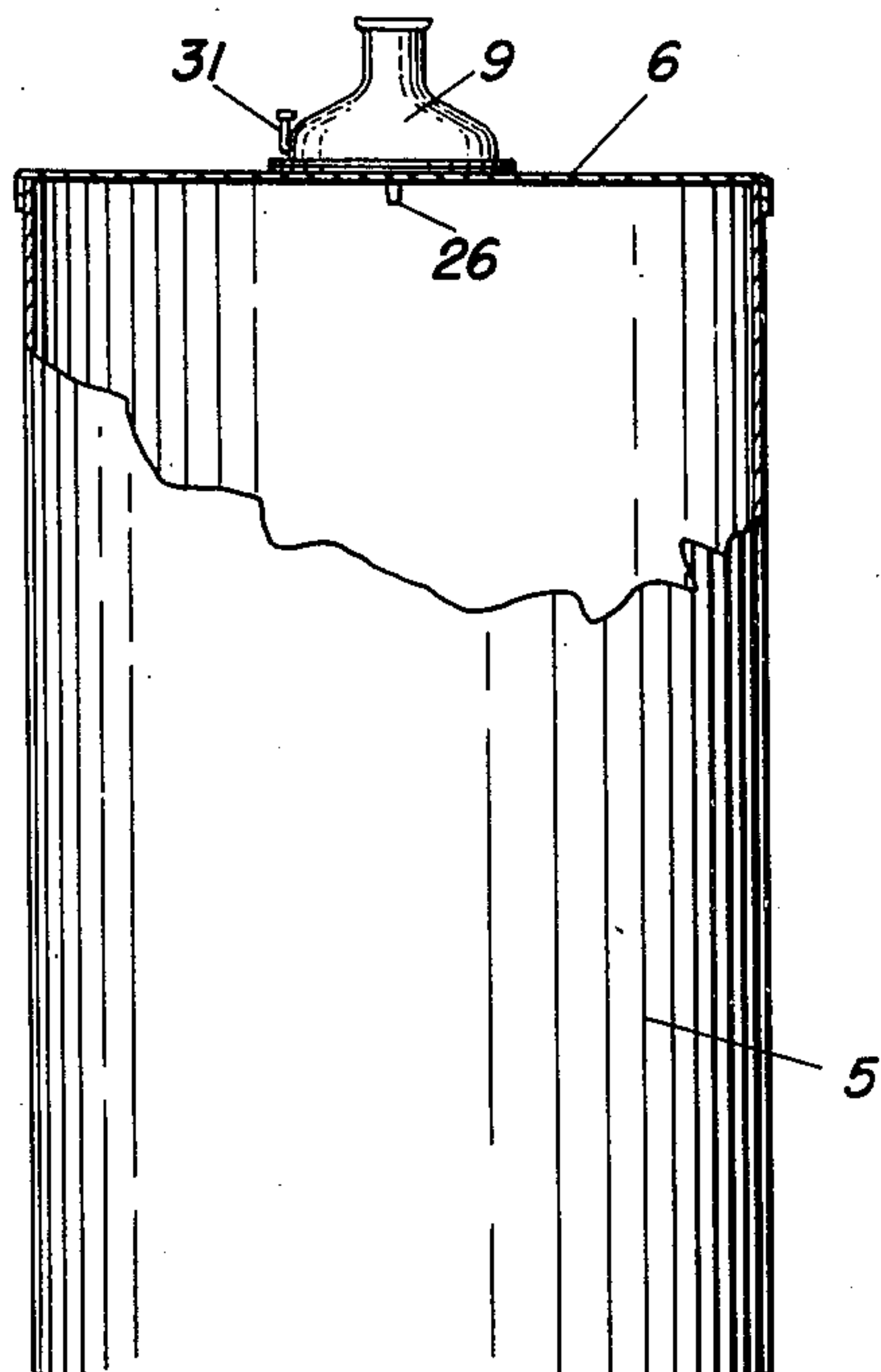


Fig 2

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UNITED STATES PATENT OFFICE

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GARBAGE AND OUTDOOR-TOILET
LID ATOMIZER

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1 Claim. (Cl. 220—87)

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This invention relates to improvements in disinfecting apparatus.

The principal object of this invention is to provide a device which may be attached to the lid of a garbage can, toilet seat, or any like support whereby the interior of the receptacle to which it is attached will be disinfected when the device is actuated.

A further object of this invention is to produce a device which may be readily attached to a supporting structure without materially altering the supporting structure.

A further object is to produce a device of this character which is neat in appearance, one which is easily manipulated and one which will have a relatively long life.

A still further object is to produce a device of this character which houses a supply of disinfectant, only a portion of which is dispensed at each actuation.

Other objects and advantages will be apparent during the course of the following description.

Referring to the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Fig. 1 is an enlarged vertical cross section of my device, as the same would appear when attached to the lid of a garbage can,

Fig. 2 is a side elevation of a garbage can or other receptacle having a lid to which my device is attached, and being shown on a reduced scale.

There are various receptacles which, due to the nature of the deposits therein, give off objectionable odors which attract flies or other pests which tend to become a nuisance and also to spread disease.

I have, therefore, devised an arrangement which may be attached to the receptacle and, when actuated, will atomize a disinfectant and discharge the same into the receptacle for the purpose of destroying odors and disinfecting the contents of the receptacle.

Referring, now, to the accompanying drawings wherein, for the purpose of illustration, is shown a preferred embodiment of my invention, I have shown a receptacle at 5, which might be any receptacle such as a garbage can, a toilet, out-door privy, or any other enclosure and, in the present instance, at 6 I have shown a cover, as, for instance, the cover of the garbage can.

It is to such receptacles and to such covers that I propose to attach my device which consists of a disc 7, which is attached to the cover

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6, in such a manner as to span an opening 8, formed in the cover.

Positioned on the disc is an inverted housing 9, made of flexible material and having a flange 11, which engages the disc 7, and is held thereto by a ring 12 and bolts 13 and 14.

The housing 9, has a port 15, which admits air past a flap valve 16, into the chamber 17, thence through a passage 18, into the chamber 19.

Secured in the neck 21 of the housing is a threaded plug 22, which has a bore 23, there-through, which communicates with a pipe 24, which terminates short of the end of an atomizer tube 26, also carried by the plug 22.

A tank 27, is connected by a flexible pipe 28, to the plug 22, and communicates through a passage 29, to the interior of the atomizer tube 26.

A filler pipe is shown at 31, the purpose of which is obvious.

It will be noted that the atomizer tube passes through the disc 7, and is intimately contacted thereby, the result being that air within the housing 9, is trapped therein, the purpose of which will be later seen.

Assuming that my device has been attached to the lid of a garbage can, as shown in Fig. 2, and it is desired to discharge disinfectant into the garbage can, the user merely pushes downwardly on the neck 21, of the housing, which collapses the housing, with the result that the air confined within the housing passes upwardly through the passage 18, into the chamber 17, and, as it cannot escape due to the flap valve 16, this air will be discharged through the bore 23 and through the tube 24, with considerable force. This will cause an aspirator action and will suck disinfectant from the tank 27, through the pipe 28 and passage 29, into the atomizer tube 26, from which point this fluid will combine with the air blast and form a spray which will be discharged into the receptacle and onto the contents thereof, thus accomplishing all the objects above set forth.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same and that various changes relative to the material, size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claim.

Having thus described my invention, I claim:
In combination with a receptacle having an

