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2,573,548

SANITARY GARBAGE CAN

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Fig. 1.

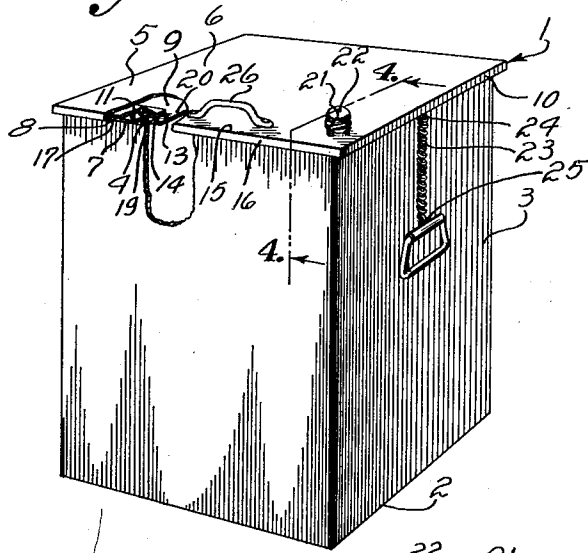


Fig. 2.

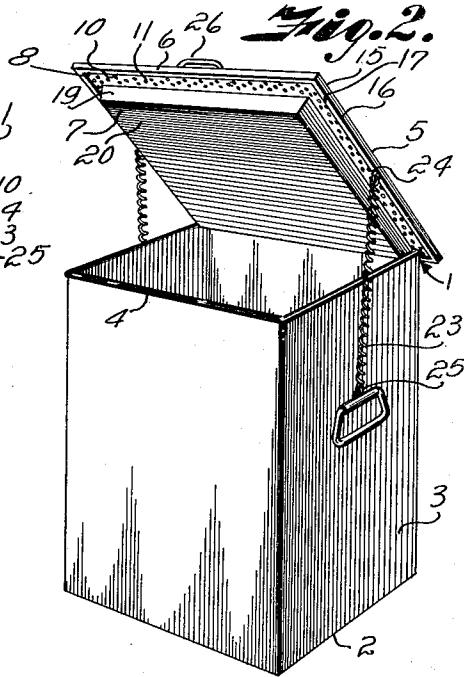


Fig. 4.

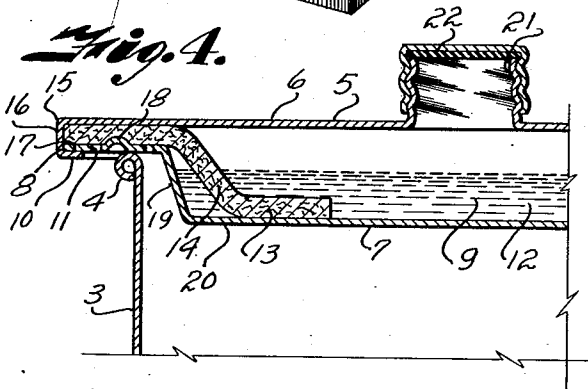


Fig. 3.

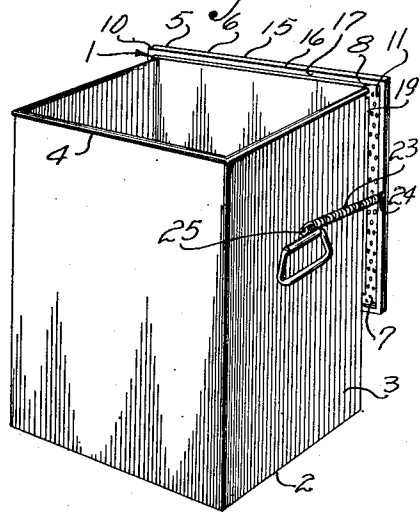
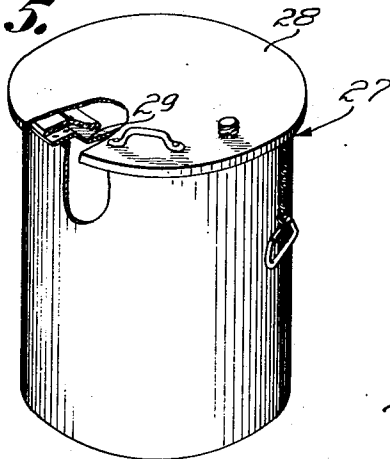


Fig. 5.



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SANITARY GARBAGE CAN

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5 Claims. (Cl. 220—87)

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This invention relates to garbage cans and has for its principal object to provide a garbage can and cover in which odors are counteracted or neutralized, insects and animals kept away and germs destroyed.

Other objects of the invention are to provide a cover with a receptacle for disinfectant deodorizing insecticide liquid and means for feeding said liquid to weep openings adjacent the rim of the can but sealing said openings against excessive escape of said liquid; to provide a garbage can cover with a depressed reservoir which loosely centers the cover on the can; to provide resilient means connecting the can and cover and tending to move the open cover to closed position; to provide a cover in which disinfectant deodorizing insecticide liquid may be replenished without removing the cover from the can; and to provide a garbage can and cover which is simple and economical to manufacture, easy to open, sanitary and efficient in operation to destroy odors and keep away insects and animals.

In accomplishing these and other objects of the present invention, I have provided improved details of structure, the preferred forms of which are illustrated in the accompanying drawings, wherein:

Fig. 1 is a perspective view of a garbage can and cover embodying the features of the present invention, portions being broken away to better illustrate the structure thereof.

Fig. 2 is a partial perspective view of the garbage can with the cover lifted.

Fig. 3 is a partial perspective view of the garbage can with the cover moved to the side to remain in open position.

Fig. 4 is an enlarged detail sectional view through the can and cover on the line 4—4, Fig. 1.

Fig. 5 is a perspective view of a modified form of garbage can and cover.

Referring more in detail to the drawings:

1 designates a garbage can illustrated as being square in cross-section and having a bottom 2 and side walls 3, said side walls terminating at their upper ends in a suitable rolled edge 4. The cover 5 is preferably formed of sheet metal suitably coated to prevent rusting, said cover preferably consisting of spaced upper and lower plate members 6 and 7 connected at their peripheral edges 8 to form a reservoir 9 therebetween, said cover being of sufficient size that the marginal edges thereof extend beyond the sides of the can and form overhanging portions 10 having a plurality of spaced weep holes 11 for escape of vapors from a suitable deodorizing disinfectant insecti-

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cide liquid 12 carried in the reservoir 9. An absorbent strip 13 of felt or other suitable material is positioned between the upper and lower plate members 6 and 7 and extends around the reservoir adjacent the peripheral edges to overlies the weep openings, said strip being of suitable width to extend inwardly as at 14 to lie in the liquid in the reservoir and carry said liquid toward the peripheral edge.

In the illustrated structure, the upper member 6 is shown as being flat, but it may be crowned if desired. The peripheral edge is turned downwardly as at 15 to form a side wall 16, the lower edge of which is turned inwardly to form a flange 17 extending under the edge of the lower member 7, the height of the wall 16 preferably being such that the strip of felt or other absorbent material 13 fills the space between the peripheral portions of the upper and lower plate members whereby the flange may be pressed into engagement with the lower plate member to clamp the outer edge of the absorbent strip between the upper and lower cover members. The absorbent strip is preferably secured against lateral displacement as by a plurality of indentations 18 or other suitable projections or fastening arranged in the marginal edge of the lower plate member intermediate the weep holes 11. The absorbent strip adjacent the peripheral edge seals the joint of the upper and lower plate members, however the edge of the flange 17 may be soldered or otherwise suitably secured to the lower plate member if desired.

The central portion of the lower plate member is preferably depressed as at 19, the shape of the depression corresponding to the geometric shape of the garbage can. The outer edges of the depressed portion are spaced slightly inwardly of the walls of the can, said depressed portion having downwardly and inwardly sloping side walls 19, the lower edges of which are connected by a bottom wall 20 to form a sump for the disinfectant deodorizing insecticide liquid below the level of the marginal portion of the lower plate member which extends over the rim of the can, the absorbent strip extending into the sump whereby the inner portion is immersed in the liquid. The sloping walls 19 of the depressed portion of the lower plate member form a depending portion on the cover which extends into the can and has a loose fit therewith, whereby said sloping walls tend to center the cover on the can and effect engagement of the rim 4 with the overhanging portion 10 of the lower plate member of the cover.

The weep holes 11 are preferably staggered around said marginal portion, some being sub-

stantially in alignment with the rim of the can and others spaced outwardly toward the periphery of the cover whereby the liquid moved by capillary action through the felt creates vapors that surround the upper portion of the can, said vapors being such that they will deodorize odors usually emanating from the garbage, tend to kill any flies or other insects coming around the can, and tend to keep any small animals away from the can.

The upper plate member 6 of the cover is provided with a fill opening 21 through which the liquid may be replaced in the reservoir as is necessary or desirable, said fill opening being closed by a suitable removable cap 22, threaded or otherwise applied to the fill opening 21. The cover 5 is provided with springs 23 suitably secured as by hooks 24 or the like adjacent the peripheral edge of said cover and substantially centrally of opposite sides thereof, the lower end of said springs being secured by hooks 25 or the like adjacent the handles of the can, said springs preferably being connected to the can on the vertical center of opposite walls with sufficient tension on the spring to tend to retain the cover in engagement with the rim of the can when the cover is in closed position. A handle 26 is secured to the upper plate member 6 of the cover adjacent the periphery thereof and preferably adjacent the side edge intermediate the sides to which the springs are connected whereby upward force on the handle tends to lift the side of the cover to effect a fulcrum action between the opposite side of the cover and rim, said rim engaging between the sloping wall 19 and the overhanging portion of the lower plate member. The springs tend to return the cover to closed position. Therefore, when the garbage has been emptied into the can, the handle may be released and the spring return the cover to closed position, the sloping walls 19 centering said cover.

If it is desired to have the can open for a period of time, the cover may be lifted and swung over the side of the can as illustrated in Fig. 3. In this position, the tension on the spring tends to hold the cover in engagement with the side walls whereby the cover remains connected to said can. If it is desired to completely remove the cover, the springs may be released from the hook 25 and the entire cover removed from the can.

The structure of the can and cover illustrated in Fig. 5 is substantially the same as that of Fig. 1 except that the can 27 is circular in cross-section and the cover 28 and the depressed portion 29 thereof are circular, this form merely illustrating that the invention is adaptable for any geometric shape of can and cover.

In using a garbage can cover constructed as described, the can is placed in any desired location, the cover arranged thereon, with the lower plate member 7 in engagement with the rim 4 of said can. Springs 23 are hooked to the cover and to the hooks 25 on the side walls of the can. The fill cap 22 is removed and suitable insecticide liquid having disinfectant and deodorant qualities is poured into the fill opening to provide a suitable quantity of said liquid in the sump of said cover. The fill cap is then closed and the can is ready for use. The liquid saturates the portion of the absorbent strip extending into the sump, said strip operating in the same manner as a wick to move liquid to the portion of the strip overlying the weep openings 11. The liquid saturating the absorbent strip 13 evaporates, causing vapors to escape through the

weep openings 11 to surround the upper portion of the can, deodorizing any odors emanating therefrom and keeping insects, animals and the like from said can. In order to place garbage in the can the handle is grasped and the side of the cover pulled upwardly and held while the garbage is emptied. The handle is then released and the cover returned to closed position. While the cover is tilted the liquid in the sump tends to move to one side of the reservoir and if left in that position for a considerable period the absorbent strip over the weep openings might become saturated to the extent that some liquid would leak out onto the overhanging portion of the lid. However, the absorbent strip forms a partial seal to the weep openings which are quite small and substantially prevents any leakage of the liquid. Therefore, the deodorant and disinfectant liquid need only be renewed about every month or the like.

It is believed obvious that I have provided a novel garbage can and cover which will maintain a sanitary and deodorized condition around the can and will also keep away small animals and insects, said cover being easy to manipulate and always tending to maintain the can in covered condition, yet providing easy access to the can for emptying same.

What I claim and desire to secure by Letters Patent is:

1. A sanitary garbage can cover comprising, a top plate, a bottom plate spaced from the top plate, said top and bottom plates being connected at the peripheral edges thereof to form a reservoir therebetween adapted to contain deodorant insecticide liquid, said bottom plate having a plurality of spaced weep openings adjacent the peripheral edge, an absorbent strip secured between the top and bottom plates adjacent the periphery thereof and overlying the weep openings, said strip having portions extending inwardly into the insecticide liquid, and a fill fitting having communication with the space between the top and bottom plate for applying the insecticide to the reservoir.

2. A sanitary garbage can cover comprising a top plate, a bottom plate spaced from the top plate, said top and bottom plates being connected at the peripheral edges thereof, said bottom plate having a depressed portion spaced inwardly of the periphery and forming a sump adapted to contain deodorant insecticide liquid, said bottom plate having a plurality of spaced weep openings between the sump and peripheral edge, an absorbent strip secured between the top and bottom plates adjacent the periphery thereof and overlying the weep openings, said strip having portions extending inwardly into the sump, and a fill fitting having communication with the space between the top and bottom plate for applying the insecticide to the sump.

3. A sanitary garbage can cover comprising, a top plate, downwardly extending peripheral walls on said top plate, a bottom plate spaced from the top plate and having peripheral edges secured to the peripheral walls of the top plate, said bottom plate having a depressed portion spaced inwardly of the periphery and forming a sump adapted to contain deodorant insecticide liquid, said bottom plate having a plurality of spaced weep openings between the sump and peripheral edge, an absorbent strip secured between the top and bottom plates adjacent the periphery thereof and overlying the weep openings, said strip having portions extending in-

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wardly into the sump, and a fill fitting having communication with the space between the top and bottom plate for applying the insecticide to the sump.

4. A sanitary garbage can cover comprising, a top plate, a bottom plate spaced from the top plate and having peripheral edges connected thereto, said bottom plate having a depressed portion spaced inwardly of the periphery and forming a sump adapted to contain deodorant insecticide liquid, said bottom plate having a plurality of spaced weep openings adjacent the peripheral edge, an absorbent strip secured between the top and bottom plates adjacent the periphery thereof and overlying the weep openings, said strip having portions extending inwardly into the sump, means in one of the plates extending into the absorbent strip for securing same against movement, and a fill fitting having communication with the space between the top and bottom plates for applying the insecticide to the sump.

5. A sanitary garbage can cover comprising, a top plate, downwardly extending peripheral walls on said top plate, said walls terminating in inwardly turned edges, a bottom plate spaced from the top plate and having peripheral edges engaging the peripheral walls of the top plate

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and resting on the inturned edges thereof, said bottom plate having a depressed portion spaced inwardly of the periphery and forming a sump adapted to contain deodorant insecticide liquid, said bottom plate having a plurality of spaced weep openings between the sump and peripheral edge, and absorbent strip secured between the top and bottom plates adjacent the periphery thereof and overlying the weep openings, said strip having portions extending inwardly into the sump, means in one of the plates extending into the absorbent strip for securing same against movement, and a fill fitting having communication with the space between the top and bottom plates for applying the insecticide to the sump.

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