W. J. EGAN.

SANITARY COVER FOR GARBAGE CANS.

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1,145,187.

Fig. 1.

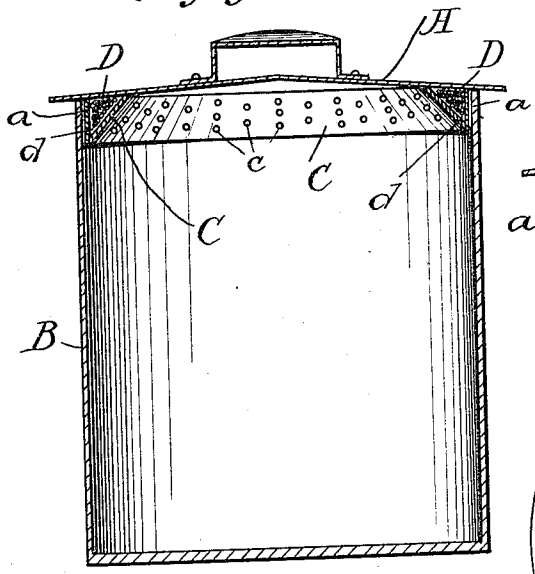


Fig. 3.

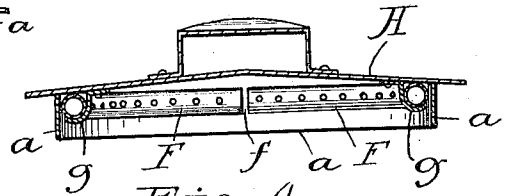


Fig. 4.

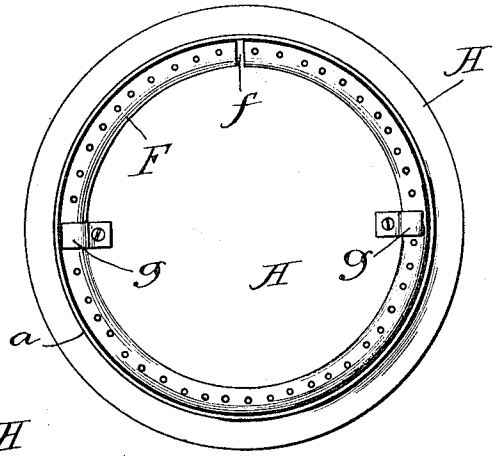


Fig. 2.

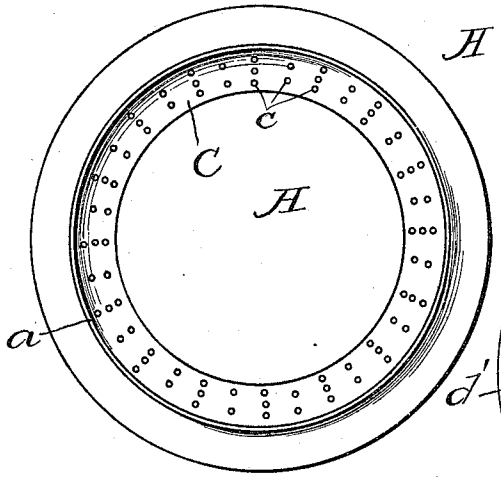
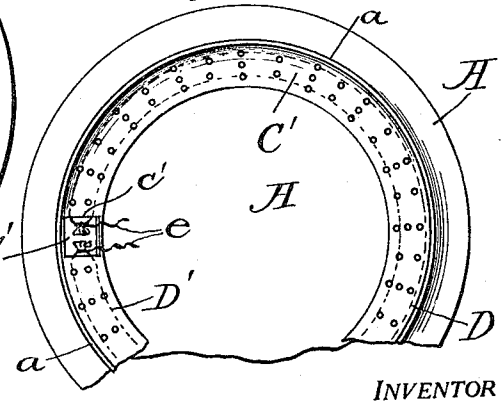


Fig. 5.



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SANITARY COVER FOR GARBAGE-CANS.

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To all whom it may concern:

Be it known that I, WALTER J. EGAN, a citizen of the United States, residing in White Plains, county of Westchester, and State of New York, have invented a certain new and useful Sanitary Cover for Garbage-Cans, of which the following is a specification.

This invention is a sanitary cover for garbage cans, and the object of the invention is to enable garbage to be kept in cans without giving off any offensive or unsanitary odors. This result is accomplished by means of a cover of particular construction whereby the can is kept sealed, and any odors which arise therein are thoroughly disinfected and rendered non-toxic.

With the foregoing objects in view, the invention embodies a can cover in combination with a disinfectant incasing member, preferably of annular form, and located beneath and near the outer rim of the cover, whereby the cover can be positioned on the can without interfering with the contents thereof.

It has been suggested heretofore to provide disinfectant containing casings for the top and within the garbage receptacles, but these devices have been somewhat complex in structure as well as bulky and cumbersome, thereby seriously interfering with the positioning of the cover in place when the receptacle is full.

As a result of the foregoing and other disadvantages, the garbage covers of the prior art, so far as I am aware, have never gone into use.

The present invention is of simple and practical construction, efficient and sanitary in its operation, and overcomes the various disadvantages incident in devices of the prior art.

Further features of novelty and objects to be attained will be apparent from the foregoing description read in conjunction with the accompanying drawings.

In the accompanying drawings I have illustrated different practical embodiments of the invention, but the constructions shown therein are to be understood as illustrative, only, and not as defining the limits of the invention.

Figure 1 is a central vertical section through a garbage can of well-known and common type, equipped with a cover made according to the present invention. Fig. 2 is an underneath view of the cover detached. Fig. 3 is a central vertical section of a modified form of cover. Fig. 4 is an underneath view of the cover shown in Fig. 3. Fig. 5 is an underneath view of a cover of still another embodiment of the invention.

Referring to the drawings generally, A designates the top plate of the cover which is adapted to close the open top of a garbage receptacle B, which top plate A is provided with an annularly depending flange *a*, which I hereinafter term the positioning flange, for the reason that its function is to properly position the cover A upon the receptacle.

Referring to Figs. 1 and 2, which illustrate the preferred embodiment of my invention, the chamber for holding the disinfectant or deodorant is formed by positioning a frusto-conical plate or annulus C within the cover, said frusto-conical annulus being of such dimensions that its edge of largest diameter will tightly fit within the depending annular flange *a* of the cover, while its other edge rests snugly against the bottom of the top plate A. When thus positioned and soldered, or otherwise secured in place, an annular chamber *d* of triangular cross section is provided for the reception of the disinfectant or deodorant. According to this embodiment of the invention, the disinfectant or deodorant is held in a suitable carrier such as a wick, packing, or the like, D, adapted to be contained within the chamber *d*. The plate C is perforated as at *c*, and these perforations allow the disinfecting or deodorizing from the material contained in the chamber *d* to enter the receptacle, and purify the same. If desired, the depending flange *a* of the cover may also be perforated, but this is, however, not essential.

The embodiment of the invention shown in Fig. 5 of the drawings is, in many respects, the same as that illustrated in Figs. 1 and 2 thereof, the main difference being that a portion of the frusto-conical annulus C′ is cut away at *c′* to provide an entrance to the chamber *d′*. This allows of the insertion or removal of the wick D′ which, if desired, may be in the form of an elongated fabric tube adapted to contain a disinfecting or deodorizing medium in the form of a powder or liquid. In this form of the invention, the strings, tapes, or other projections, *e*, are adapted to project from the

opening c' to allow of the withdrawal of the wick for the purpose of replenishing the same. In the recharging of the wick in the form of the device shown in Figs. 1 and 2, the cover is inverted, and the disinfectant poured thereinto, and slopped around so as to enter the perforations c, and be absorbed by the wick or packing D.

In the embodiment of the invention illustrated in Figs. 3 and 4, the disinfecting medium is contained within the perforated tubular annulus F. This annulus may be secured in any appropriate manner within the cover, but I have shown the same in the form of oppositely placed clamping members g, which operate to detachably secure the member F in place. The tubular annulus F may be either continuous, after the principle of the embodiment of the invention disclosed in Figs. 1 and 2, or may be parted as shown at f, for the purpose of allowing of the insertion or removal of the disinfectant carrier after the manner hereinbefore referred to in connection with the embodiment of the invention disclosed in Fig. 5 of the drawings.

It will be apparent from the several modified forms of the invention hereinbefore discussed that in all of these forms the disinfectant containing casing is positioned near the outer edge of the top plate of the cover so that when the cover is applied to a can, said casing will be immediately adjacent the interior wall thereof. Thus the central part of the cover will be unencumbered. It is well-known, in the depositing of garbage in a receptacle, that the garbage packs quite tightly in the center of the can, and is comparatively loose at the sides thereof. Accordingly, when a cover embodying the present invention is placed upon a full can, the disinfectant casing will engage with that portion of the contents which is more yielding and, when the cover is pressed down, the material around the edge of the can will be compressed and the cover readily adjusted to its normally closed position. Thus, although maximum area is provided for the dispensing of disinfecting or deodorizing fumes, the cover is, to all intents and purposes, left unobstructed, and at the same time simplicity in construction is retained and no appreciable weight added.

With the foregoing in mind, my reasons for providing an annular casing, adapted to be positioned near the edge of the cover, will be apparent. The triangular cross sectional form of casing disclosed in Figs. 1, 2 and 5 of the drawings is particularly well adapted for carrying out its functions, since this shape allows its ready entrance into a full can, whereas its diverging face readily forces the displaced material toward the center of the receptacle.

Another advantage of the use of the frusto-conical plate is its extreme simplicity, and the further fact that in this construction the depending positioning flange of the cover is materially strengthened and reinforced.

Having thus fully described the invention, what I claim as new, and desire to secure by Letters Patent is:—

1. A sanitary garbage can cover embodying a top plate and a perforated disinfectant casing depending from the under side of said plate and located substantially at the outer edge thereof, whereby the major part of said top plate is left unencumbered, said disinfectant casing being adapted to enter and be positioned within the can when the cover is in place upon the can.

2. A sanitary garbage can cover embodying a top plate and a perforated disinfectant casing positioned on the under side of said plate and near the outer edge thereof whereby the outer periphery of said casing serves as means for properly positioning the top plate on a garbage can, and the major portion of the under side of said top plate is left unencumbered.

3. A sanitary garbage can cover embodying a top plate and a perforated, annular disinfectant casing so positioned on the under side of said plate that it enters the can when the plate is seated on the upper edge thereof, said casing being so restricted in size that the major portion of the under face of said top plate is left unencumbered.

4. A sanitary garbage can cover embodying a top plate and a disinfectant casing positioned on the under side of said plate and near the outer edge thereof whereby the major part of said top plate is left unencumbered, said casing being adapted to enter the can when the cover is seated thereon and being so shaped as to displace the contents of a garbage can near the sides thereof for the purpose of allowing the top plate to be readily seated on the top edges of the can.

5. A sanitary garbage can cover embodying a top plate having a depending annular flange adapted to properly position said plate on the can, in combination with an annularly disposed, perforated casing positioned on the under side of said top plate interiorly of the flange and adapted to enter the can when the top plate is seated on the upper edge thereof.

6. A sanitary garbage can cover embodying a top plate having a depending annular flange adapted to properly position said plate on the can, in combination with a frusto-conical member, provided with a plurality of perforations, coöperating with said plate and flange to form a disinfectant chamber, said disinfectant chamber being adapted to enter the can when the top plate is seated on the upper edge thereof.

7. A sanitary garbage can cover embodying a top plate having a depending annular

flange adapted to properly position said plate on the can, in combination with a frusto-conical annular member coöperating with said plate and extending upwardly from substantially the base of the flange, thereby forming a disinfectant chamber, said chamber further serving as a strengthening medium for the flange and being provided with a plurality of perforations for disseminating the disinfectant.

8. A sanitary garbage can cover embodying a top plate having a depending annular flange adapted to properly position said plate on the can and to enter said can when the top plate is seated on the upper edge thereof, in combination with a perforated frusto-conical member coöperating with said plate and flange to form a disinfectant chamber, said member being provided with an opening to allow of the insertion or removal of disinfectant from the chamber.

9. A sanitary garbage can cover embodying a top plate having a depending annular flange adapted to properly position said plate on the can, in combination with a perforated frusto-conical member coöperating with said plate and flange to form a disinfectant chamber and absorbent material within said chamber and adapted to be saturated with a disinfectant.

10. A sanitary garbage can cover embodying a top plate and an annularly disposed disinfectant casing positioned on the under side of said plate and adapted to enter the can when the plate is normally positioned on the can, said casing being adapted to house absorbent material carrying a disinfectant and the casing containing a plurality of perforations through which the disinfectant may emanate.

11. A sanitary garbage can cover embodying a top plate, a perforated annular casing positioned on the under side of said plate, and absorbent material disposed within said casing for the purpose of retaining a disinfectant.

12. A sanitary garbage can cover embodying a top plate and a perforated annular disinfectant casing positioned on the under side and near the outer edge thereof, and adapted to extend into the upper portion of a garbage can when the top plate is seated on the upper edge thereof.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WALTER J. EGAN.

Witnesses:
JAS. H. GRIFFIN,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."