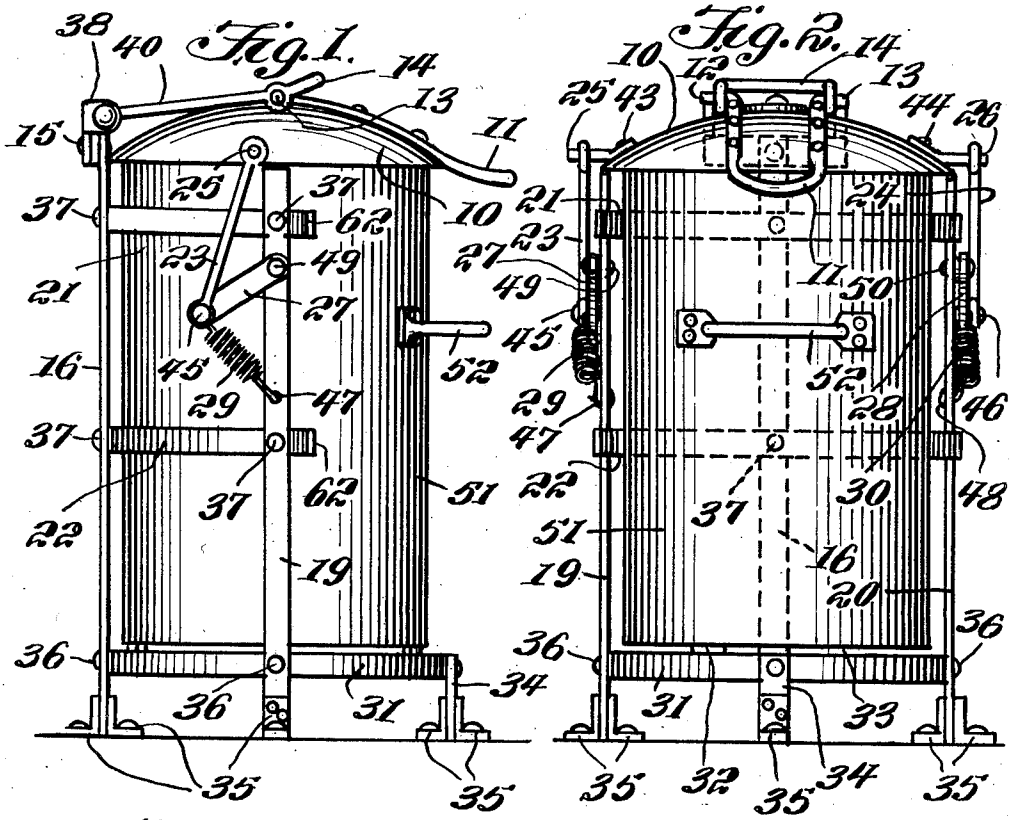
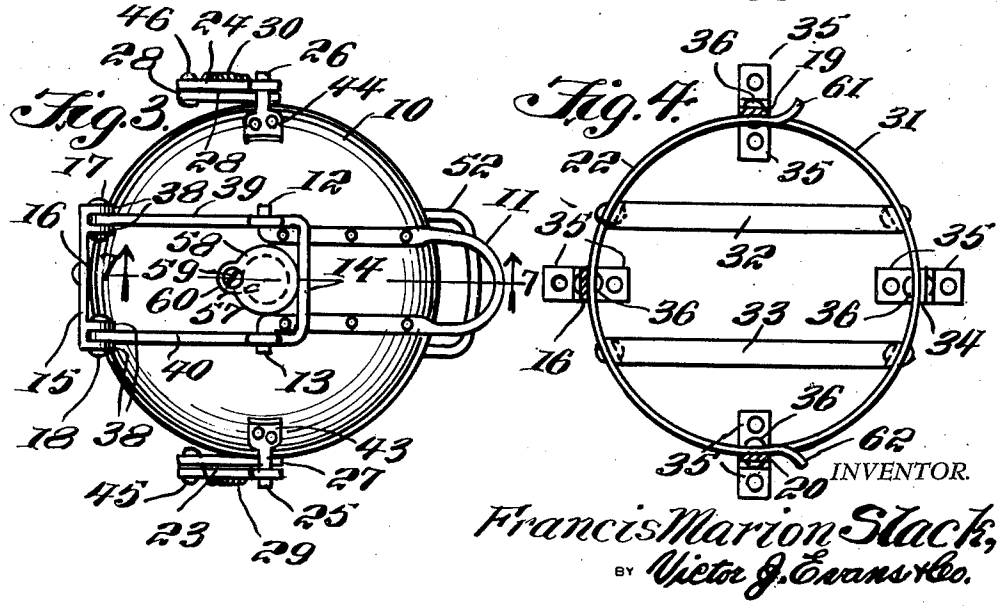
March 9, 1954 F. M. SLACK 2,671,627

FLYPROOF AUTOMATIC ACTION GARBAGE CAN COVER HOLDER

Filed June 6, 1952 2 Sheets-Sheet 1





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FLYPROOF AUTOMATIC ACTION GARBAGE CAN COVER HOLDER

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Fig. 5.

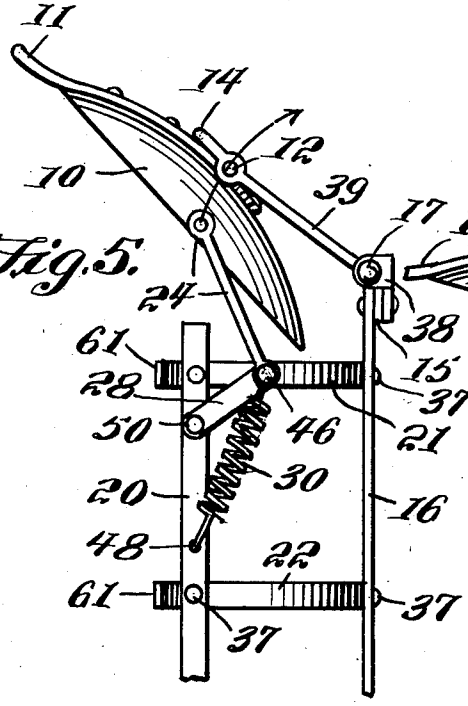


Fig. 6.

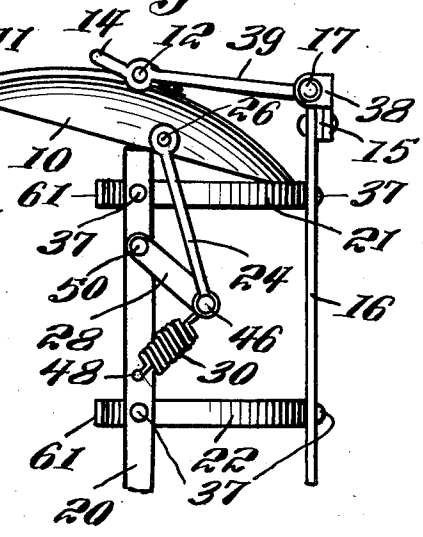


Fig. 7.

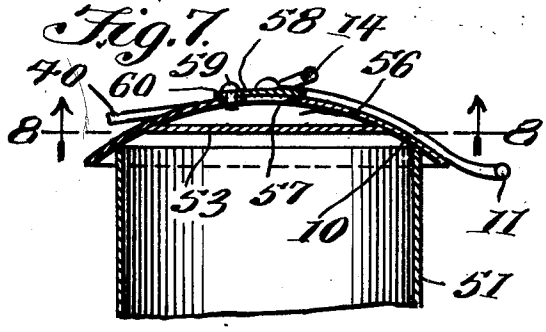


Fig. 8.

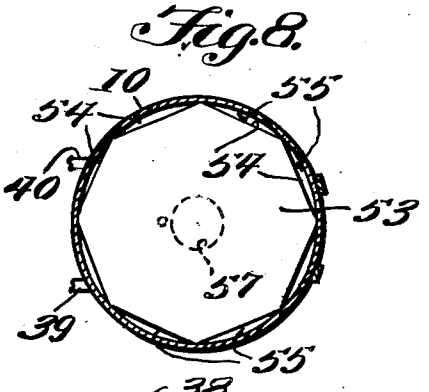


Fig. 9.

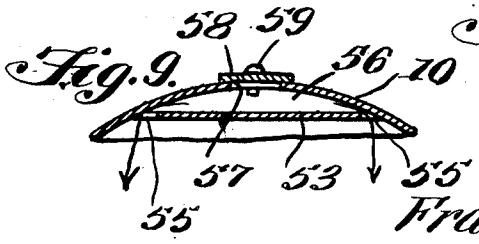
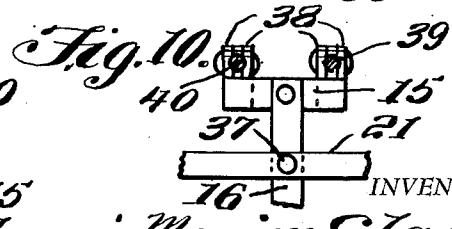


Fig. 10.



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FLYPROOF AUTOMATIC ACTION GARBAGE CAN COVER HOLDER

Francis Marion Slack, Fort Worth, Tex.

Application June 6, 1952, Serial No. 292,028

3 Claims. (Cl. 248—147)

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This invention relates to covers for garbage cans where garbage cans are supported in stands or frames and wherein the covers are hinged to upper parts of the frame, and in particular a cover mounting wherein the cover is yieldingly supported and resiliently urged downwardly whereby it may readily be elevated to place products in the can and also provides a new and unique means for removing and replacing the can without manually raising or lowering the cover by hand, whereby removing the can from the stand automatically raises the cover which remains in an elevated and set position until the can is again replaced in the stand, which operation lowers cover sealing on top of can.

The purpose of this invention is to provide means for mounting a garbage can cover whereby upon release of the cover it is resiliently urged to a nested position on the upper end of the garbage can so that the can is substantially sealed.

Various attempts have been made to provide covers for sealing upper ends of garbage cans however where the cover is hinged to the upper end of a stand it is difficult to hold the cover in position and at the same time provide means for resiliently urging the cover toward the closed position with the cover extended above the can such as in positions for placing products in the can and also for removing and replacing the can. With this thought in mind this invention contemplates a resilient mounting for yieldingly supporting the cover of a garbage can whereby it may readily be raised with one hand as products are placed in the can with the other and also provides a unique means whereby the cover is automatically raised to facilitate removing and replacing the can.

The object of this invention is, therefore, to provide a yielding mounting for a garbage can cover whereby the cover is resiliently held and whereby the cover returns automatically to a sealing position on the upper end of the can.

Another object of the invention is to provide a yieldingly mounted garbage can cover in which a disinfectant pocket is provided in the cover.

A further object of the invention is to provide an improved garbage can stand having a yieldingly supported cover in which the device is of a simple and economical construction.

With these and other objects and advantages in view the invention embodies a stand having a horizontally disposed frame supported by legs and posts in spaced relation to a surface upon which the stand is positioned and a cover hinged

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to the upper end of one of the posts and provided with resilient supporting braces at the sides which urge the cover downwardly to a closed position upon the upper end of a garbage can positioned on the horizontally disposed frame.

Other features and advantages of the invention will appear from the following description taken in connection with the drawings, wherein:

Figure 1 is a side elevational view illustrating the improved garbage can stand and cover showing a garbage can positioned on the stand.

Figure 2 is a front elevational view of the garbage can and stand as shown in Fig. 1.

Figure 3 is a plan view of the improved garbage can stand and cover.

Figure 4 is a sectional plan through the intermediate part of the stand showing the horizontally disposed frame or platform spaced from the lower end of the stand.

Figure 5 is a detail showing a portion of the upper part of the stand with the cover in a partially elevated position.

Figure 6 is a view similar to that shown in Fig. 5 showing the cover being automatically held in a semi-closed position.

Figure 7 is a cross section through the upper end of the garbage can and cover, taken on line 7—7 of Fig. 3 and showing the cover in the closed position.

Figure 8 is a section taken on line 8—8 of Fig. 7 showing a disinfectant retaining partition in the underside of the cover.

Figure 9 is a section similar to that shown in Fig. 7 also showing the disinfectant partition in the upper part of the cover.

Figure 10 is a detail illustrating the hinge elements for pivotally mounting the cover on the stand.

Referring now to the drawings wherein like reference characters denote corresponding parts the improved garbage can of this invention includes a cover 10, substantially dome-shaped in cross section, a U-shaped handle 11 secured to the upper surface of the cover and having pins 12 and 13 extended from ends thereof, a U-shaped yoke 14 in which the pins 12 and 13 are pivotally mounted and which is hinged to a cross bar 15 on the upper end of a post 16 of the stand with pins 17 and 18, posts 19 and 20 connected to the posts 16 with U-shaped bars 21 and 22, links 23 and 24 pivotally connected to the sides of the cover with pins 25 and 26 and mounted on the posts 19 and 20 with levers 27 and 28 and springs 29 and 30, respectively, and a platform including a ring 31 with supporting bars 32 and 33 sup-

ported with the posts 16, 19, and 20 and also with a short leg 34, at the front.

The lower ends of the posts 16, 19 and 20 and also the leg 34 are provided with clip angles 35 and the ring or band 31 is secured to the posts and leg with rivets, or the like, as indicated by the numeral 36. The U-shaped bars 21 and 22 are also secured to the posts with rivets or the like as indicated by the numeral 37.

The cross bar 15 is provided with upwardly extended ears, as indicated by the numeral 38 and arms 39 and 40 of the yoke 14 are pivotally mounted between the ears with pins or rivets 17 and 18. The arms 39 and 40 are also provided with eyes 41 and 42, respectively, in which the pins 12 and 13 are pivotally mounted. With the cover 10 pivotally mounted in this manner it may readily be raised and lowered with the handle 11.

The cover is yieldingly held by the links, levers and springs, the upper ends of the links being pivotally held by the pins 25 and 26 which are secured to the cover with brackets 43 and 44. The lower ends of the links are pivotally connected to the levers 27 and 28 with pins 45 and 46 and the upper ends of the springs are connected to these pins. The lower ends of the springs are secured in openings 47 and 48 in the posts 19 and 20 and the upper ends of the levers 27 and 28 are pivotally connected to the posts with pins 49 and 50.

With the parts arranged in this manner a garbage can, as indicated by the numeral 51 and having a handle 52 on one side, may be positioned on the platform with the cover resting upon the upper end of the can and when it is desired to place products in the can it is only necessary to raise the cover with the handle 11, to the position shown in Fig. 5. To remove the can grasp handle 52 and pull can out of stand, this action automatically raises cover which remains in an elevated position as shown in Fig. 6 until garbage can is replaced in the stand, this operation lowers and seals cover on top of can, and in both positions, Fig. 5 and Fig. 6, the cover is resiliently or yieldingly held by the combination of the springs with the links and levers.

The under surface of the cover is provided with a partition 53 which is formed with flat sides 54, as shown in Fig. 8 to provide openings 55 for a disinfectant, or the like in a compartment 56 in the under side of the cover, to escape.

The disinfectant, or the like, in the compartment 56 may be replenished through an opening 57 in the cover, the opening being provided with a closure plate 58 that is pivotally mounted on the cover 10 with a pin 59, the pin 59 being positioned in an ear 60 at one side of the plate 58.

As illustrated in Fig. 4, the ends of the bars 21 and 22 are flared outwardly as indicated by the points 61 and 62 to facilitate inserting a can or the like in the stand.

With the cover yieldingly mounted on the

frame in this manner it may readily be moved upwardly to place products in a can positioned on the stand or to permit the can to be removed and replaced, and as the cover is released it is resiliently drawn downwardly to a nested position upon the upper end of the can.

It will be understood that modifications within the scope of the appended claims may be made in the design and arrangement of the parts without departing from the spirit of the invention.

What is claimed is:

1. A garbage can stand comprising a frame having posts, a yoke pivotally mounted on the upper end of one of said posts, a cover pivotally connected to the extended end of the yoke, levers pivotally mounted on posts at the sides of the frame, links pivotally connected at one of the ends thereof to the cover and at their opposite ends to said levers, spring connected at one of the ends thereof to said posts upon which the levers are pivotally mounted and at their opposite ends to the pivotal connections between the levers and links, and a platform mounted in the frame and spaced from the lower end thereof.

2. In a garbage can stand, the combination which comprises a frame having a post at one point with side posts positioned at right angles from the former post, a horizontally disposed platform mounted in the posts and spaced from the lower ends thereof, a leg attached to the platform for supporting one side thereof, a yoke having arms pivotally mounted on the upper end of said former post, a cover, a U-shaped handle mounted on the cover and pivotally connected to the extended ends of the arms of the yoke, levers pivotally mounted on said side posts, links pivotally connected at one of the ends thereof to sides of the cover and at their opposite ends to extended ends of said levers, and springs connected at one of the ends thereof to said side posts and at their opposite ends to the pivotal connections of the links and levers.

3. A garbage can stand comprising a frame having posts, a yoke pivotally mounted on one of said posts, a cover pivotally connected to the yoke, levers pivotally mounted on posts at the sides of the frame, links pivotally mounted at one of the ends thereof to the cover and at their opposite ends to said levers, springs connected at one of the ends thereof to said posts upon which the levers are pivotally mounted and at their opposite ends to the pivotal connections between the levers and links, and a platform mounted in the frame.

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