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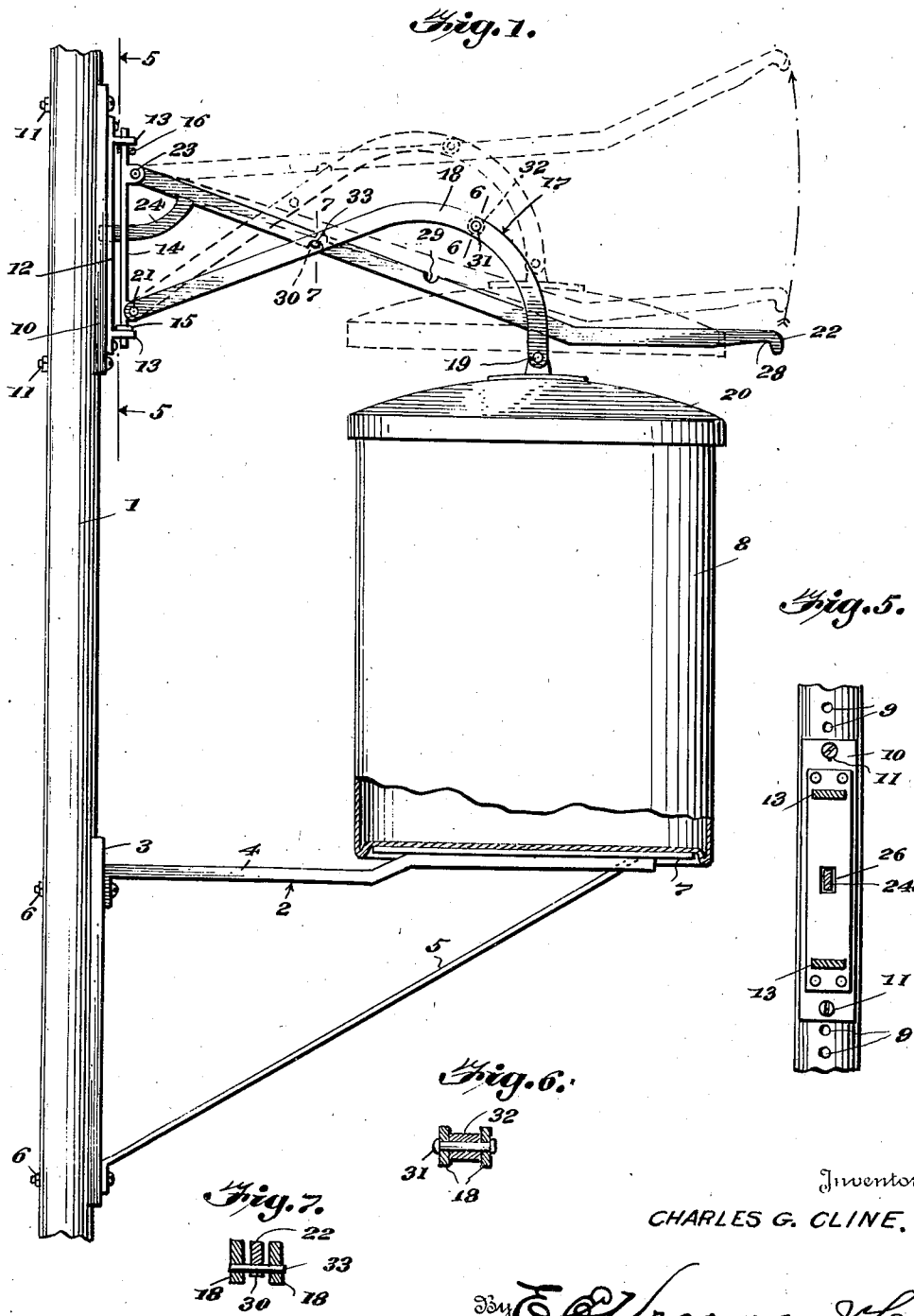
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GARBAGE CAN HOLDER

Filed Aug. 19, 1940

2 Sheets-Sheet 1



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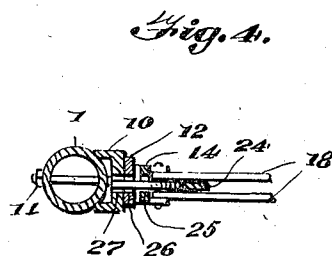
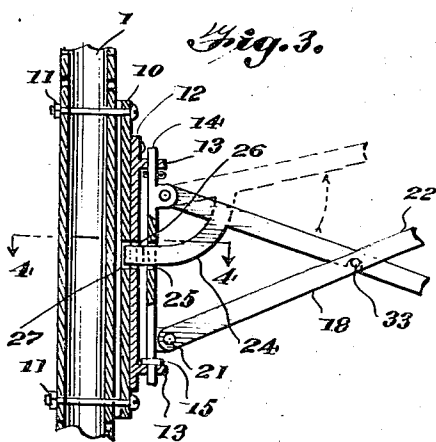
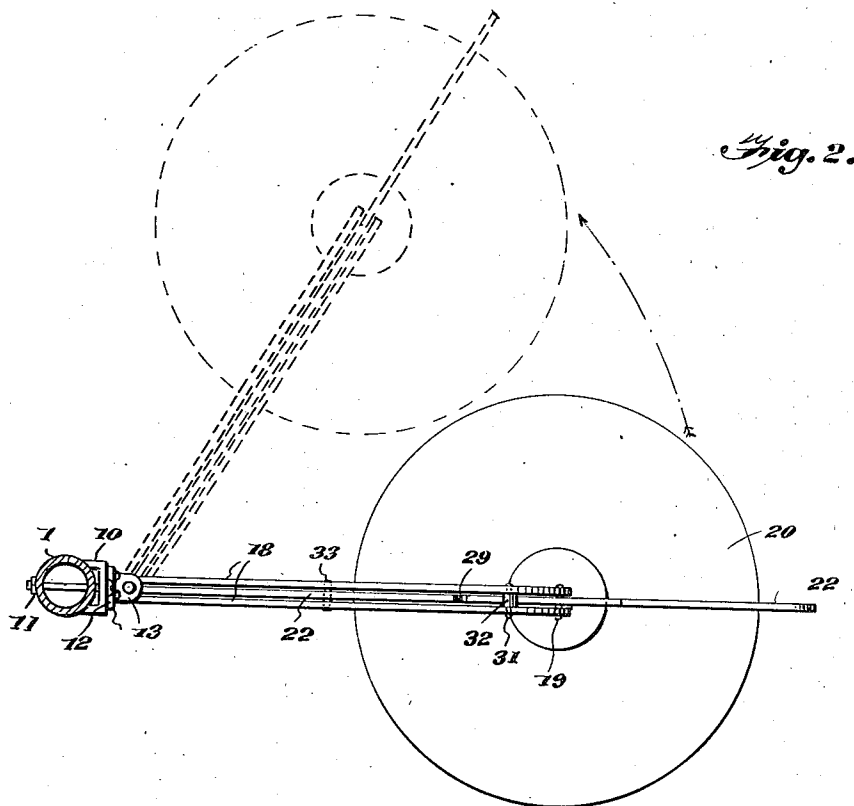
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

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GARBAGE CAN HOLDER

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5 Claims. (Cl. 248—147)

This invention relates to a garbage can holder, and particularly to means for operating the lid or cover of the can.

An object of the invention is the provision of simple and efficient means for manually operating the lid of a can from a closed to an open position, and to the moving of the lid to a closed position, whereupon the lid will be automatically locked or held against accidental displacement off the can.

Another object of the invention is the construction of a lid operating mechanism, which will hold the lid on a can against accidental displacement, but which operating mechanism can be easily manually manipulated, for raising a lid and moving the same to one side of a can, giving free access to the can, as the operator desires.

A still further object of the invention is the construction of a novel and efficient garbage can which possesses the following advantages: to keep dogs and cats from upsetting and scattering the garbage; to keep a can up off the ground; to keep rain and water out of the can; to obviate the use of bricks or weights to hold the lid closed; to eliminate setting down of waste matter while removing weights from the lid of a can; to permit a can being easily moved to a shelter during the winter time; to permit garbage can to be set up in any convenient place in a very simple manner, and to produce a can-mechanism which can be operated when both hands are full, etc.

With the foregoing and other objects in view, the invention comprises certain novel constructions, combinations, and arrangements of parts as will be hereinafter fully described, illustrated in the accompanying drawings, and more particularly pointed out in the appended claims.

In the drawings:

Figure 1 is a view in side elevation of a mechanism constructed in accordance with the present invention, with the operating mechanism of the lid or cover shown by dotted lines in a raised or elevated condition.

Figure 2 is a top plan view.

Figure 3 is an enlarged view partly in vertical section and partly in side elevation of the vertical support, auxiliary bracket, swivel bar and the inner ends of the lid supporting unit and the handle.

Figure 4 is a sectional view taken on line 4—4, Fig. 3, and looking in the direction of the arrows.

Figure 5 is a sectional view taken on line 5—5, Fig. 1, and looking in the direction of the arrows.

Figure 6 is an enlarged sectional view taken on line 6—6, Fig. 1.

Figure 7 is an enlarged sectional view taken on line 7—7, Fig. 1.

Referring to the drawings, in which the preferred embodiment of the invention is illustrated, 1 designates a vertical hollow support to which

is secured primary bracket device 2. This bracket device 2 comprises plate 3, horizontal arm 4 and inclined brace 5. The plate 3, horizontal arm 4 and inclined brace 5 are secured to the vertical support 1 by means of bolts 6. A horizontal, flat steel shelf 7 is secured on the top of arm 4. This shelf 7 supports the can 8.

The hollow vertical support 1 is provided with a plurality of horizontal apertures 9, Fig. 5. An adjustable channel plate 10 bears against support 1, and is held in place upon said support by bolts 11. By changing the position of bolts 11, with respect to the apertures 9, plate 10 can be adjusted vertically on the support 1 for accommodating different height cans 8. The screws or screw bolts 11 extend through the hollow support 1 as clearly seen in Figure 3.

An auxiliary bracket 12 is against the channel plate 10 and is suitably fastened to said plate 10. This auxiliary bracket 12 is provided with a pair of horizontal parallel lugs 13. Rotatably mounted upon lugs 13 is a swivel bar 14. Bar 14 is provided with a collar 15, fixedly secured thereto, and this collar normally bears against the top face of the lower lug 13. A cotter pin 16 is fastened upon the swivel bar 14, under the upper lug 13, so that the swivel bar cannot be accidentally removed off the lugs 13.

A lid supporting unit 17 is provided, which comprises two parallel supporting arms 18, Fig. 6. The outer ends of the supporting arms 18 are pivotally connected at 19 at the top of the cover or lid 20. The inner ends of the arm 18 are pivotally connected at 21 to the swivel bar 14. A handle 22 is slidably mounted between the parallel arms 18, and this handle is pivotally connected at 23 to the swivel bar 14. Contiguous to the inner end of handle 22 there is an integral curved locking spur 24. This locking spur 24 is adapted to extend through an elongated aperture 25 in swivel bar 14 and through a similar aperture 26 in auxiliary bracket 12; aperture 26 registers with aperture 27 in the channel plate 10 (Fig. 3). Therefore, when the spur 24 is in the registering apertures, swivel bar 14 will be prevented from rotating upon lugs 13.

The handle 22 is provided, at its outer end, with a notch 28 whereby a person with both hands full, as with a large pan, can hook rim of pan under the handle, in engagement with notch 28 and raise the handle to proper height and swing lid 20 to right or left, emptying the pan in the can, and then permitting the can to be closed without having to let go with either hand.

The handle 22 is provided in its upper edge with transverse notch 29 and in its lower edge with pin-receiving notch 30. The parallel supporting arms 18 are provided with a pin or rivet 31 on which is mounted roller 32 (Fig. 6). The roller 32 is adapted to rest in the notch 29. The

parallel arms 18 are also provided with a pin 33 (Fig. 7) which is adapted to rest in the pin-receiving notch 30, as shown in full lines in Figure 1. When the handle 22 is lifted to the dotted position, Figure 1, the handle will be in such position as to cause pin 30 to be out of notch pin 33, with the roller 32 resting in the notch 29. This will cause the lid 20 to be temporarily held in its raised position as shown in dotted lines (Fig. 1), but by the operator pressing downward upon the handle 22, the roller will revolve and be caused to move out of the notch 29. Then as downward movement is continued of the handle, the handle will be positioned as shown in full lines in Fig. 1, whereupon the pin 33 will ride into the notch 30, thereby locking the lid 20 upon the can 8, against accidental displacement. At the same time the locking spur 24 will be extending into the registering apertures 25, 26 and 27 (Fig. 3), whereupon the lid 20 will be not only locked upon the can, but no sideway or lateral movement of the supporting unit 17 or handle 20 will be permitted.

When the handle 22 is raised to the dotted position, Fig. 1, locking spur 24 will be in a disengaging position, from the registering apertures 25, 26 and 27, whereupon the lid can be swung to either side, or to one side of the can 8, thereby allowing easy access to the open can.

It is to be noted that the handle 22 is of an angle structure, with its outer portion normally in a horizontal plane, Fig. 1, and that the supporting arms 18 are of a general curved structure, all of which details enable the hereinbefore described parts to function perfectly. The placing of the handle 22 between the arms of lid supporting unit 17 keeps the handle in not only a compact position, but in true alignment to enable it to cooperate efficiently with the pin 33 and roller 32. Therefore, it will be seen that the weight of the handle 22 holds the pin 33 in notch 30 against accidental displacement, thereby keeping the lid locked on the can, against any marauding animal knocking the lid off the can. Further, when the handle is lifted the roller 32 automatically seats itself in notch 29, thereby locking the mechanism, in its raised position, holding the lid 20 from interfering with the operator dumping waste matter into the can. By slight downward pressure on the handle 22, the operator can cause the roller 32 to move out of the notch 29, whereupon the lid can be quickly placed upon the can, and locked in its placed position as hereinbefore described.

While I have described the preferred embodiment of my invention and illustrated the same in the accompanying drawings, certain changes or alterations may appear to one skilled in the art to which this invention relates during the extensive manufacture of the same and I, therefore, reserve the right to make such changes or alterations as shall fairly fall within the scope of the appended claims.

What I claim is:

1. In a mechanism of the class described, the combination with a support, of a plate and a bracket secured to said support, a lid operating mechanism pivotally mounted on said bracket, whereby said lid operating mechanism can have lateral movement with respect to said support, and said lid operating mechanism provided with means adapted to extend through portions of said bracket and plate for locking said lid operating mechanism against lateral movement.

2. In a mechanism of the class described, the combination of a support, a plate secured against said support, a bracket secured against said plate, a swivel bar mounted upon said bracket, said swivel bar, bracket and plate provided with registering apertures, a lid operating mechanism mounted upon said bracket, and said lid operating mechanism provided with means adapted to extend into said registering apertures for locking said lid operating mechanism against lateral movement upon said bracket.

3. In a mechanism of the class described, the combination of a support, a plate secured against said support, a bracket secured against said plate, a swivel bar mounted upon said bracket, said swivel bar, bracket and plate provided with registering apertures, a lid operating mechanism mounted upon said bracket, said lid operating mechanism provided with a spur curved longitudinally adapted to project into said registering apertures, for locking said lid operating mechanism against lateral movement.

4. In a mechanism of the class described, the combination with a support of a can with a movable lid on said support, a swivel bar and means pivotally mounting said swivel bar on said support, a pair of curved supporting arms pivotally connected at their inner ends to said swivel bar and at their outer ends to said lid, a handle provided in its outer end with a notch and being pivotally mounted at its inner end upon said swivel bar, said handle provided near its inner end with an integral downwardly extending spur, said spur being adapted to pass through said swivel bar and hold said swivel bar against pivotal movement, said handle provided with a notch in its under edge and with a notch in its upper edge, said supporting arms provided with a pin adapted to enter the notch on the under edge of said handle when the lid is closed, and said arms provided with a roller adapted to enter the notch on the upper edge of said handle when the lid is opened.

5. In a mechanism of the class described, a support including an upright and can-supporting means projecting forwardly therefrom, a bracket secured against the upright in an elevated position, arms spaced laterally from each other and having downwardly curved outer end portions, inner ends of said arms being pivotally connected with the bracket for vertical swinging adjustment, a can cover suspended from outer ends of said arms, a pin mounted between the curved portions of said arms, a second pin mounted between the arms rearwardly of the first pin, and a handle bar pivoted at its rear end to the bracket for vertical swinging movement in vertical spaced relation to inner ends of the arms, said handle bar extending forwardly with a portion disposed between the curved portions of the arms and confined between the front and rear pins, said handle bar having its under face formed with a recess positioned to receive the rear pin when the handle bar is swung downwardly to lower the arms and dispose the cover in position to close the upper end of a can, the upper face of the bar being formed with a recess spaced forwardly from the first recess to receive the front pin when the handle bar is swung upwardly to raise the arms and hold the handle bar and the arms in a raised position with the cover off of the can.

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