Sept. 13, 1960 S. A. BLANCHARD 2,952,434

TILTABLE GARBAGE CAN ASSEMBLY

Filed July 21, 1959 2 Sheets-Sheet 1

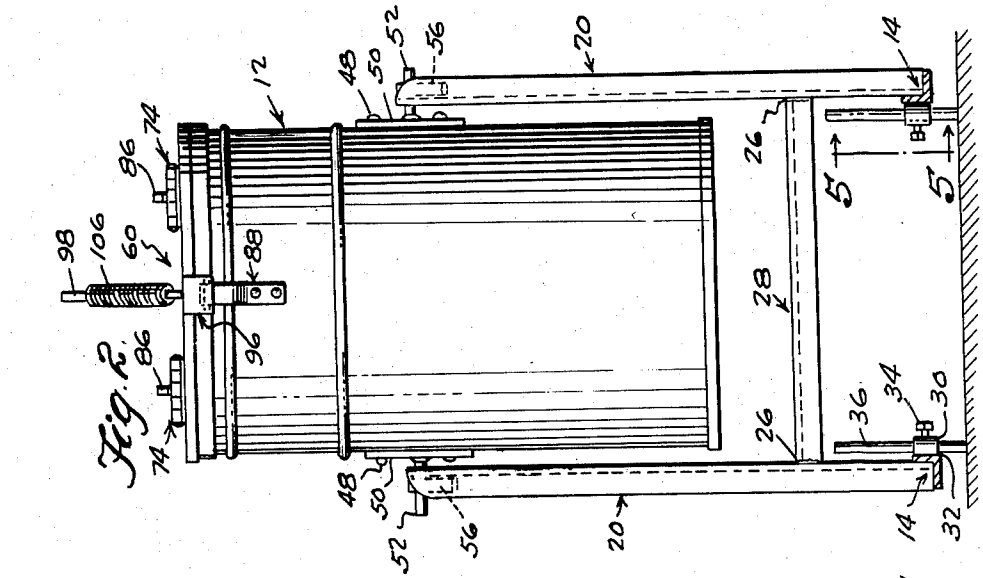


Fig. 2.

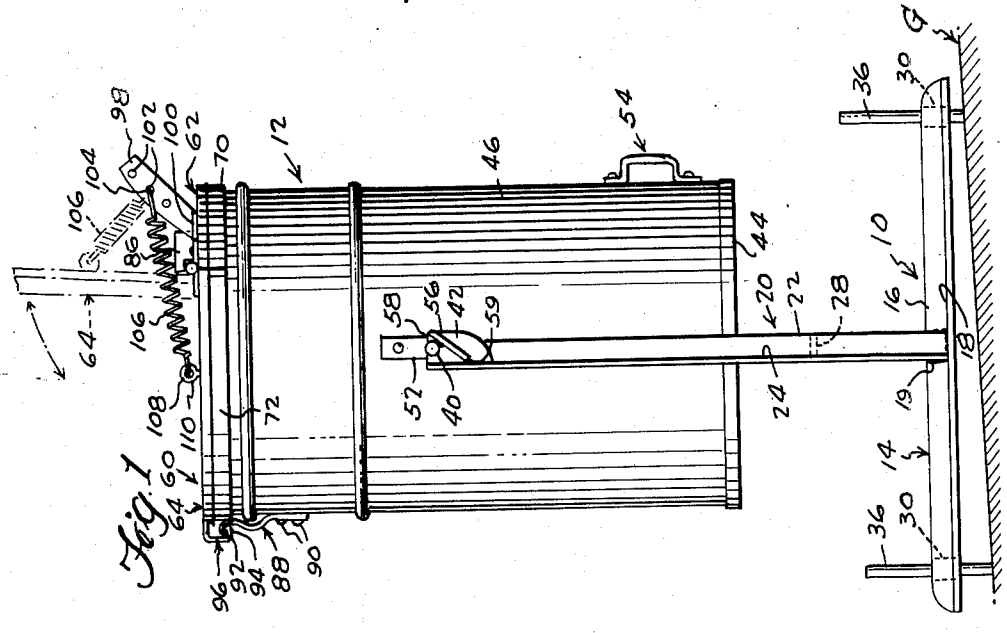


Fig. 1

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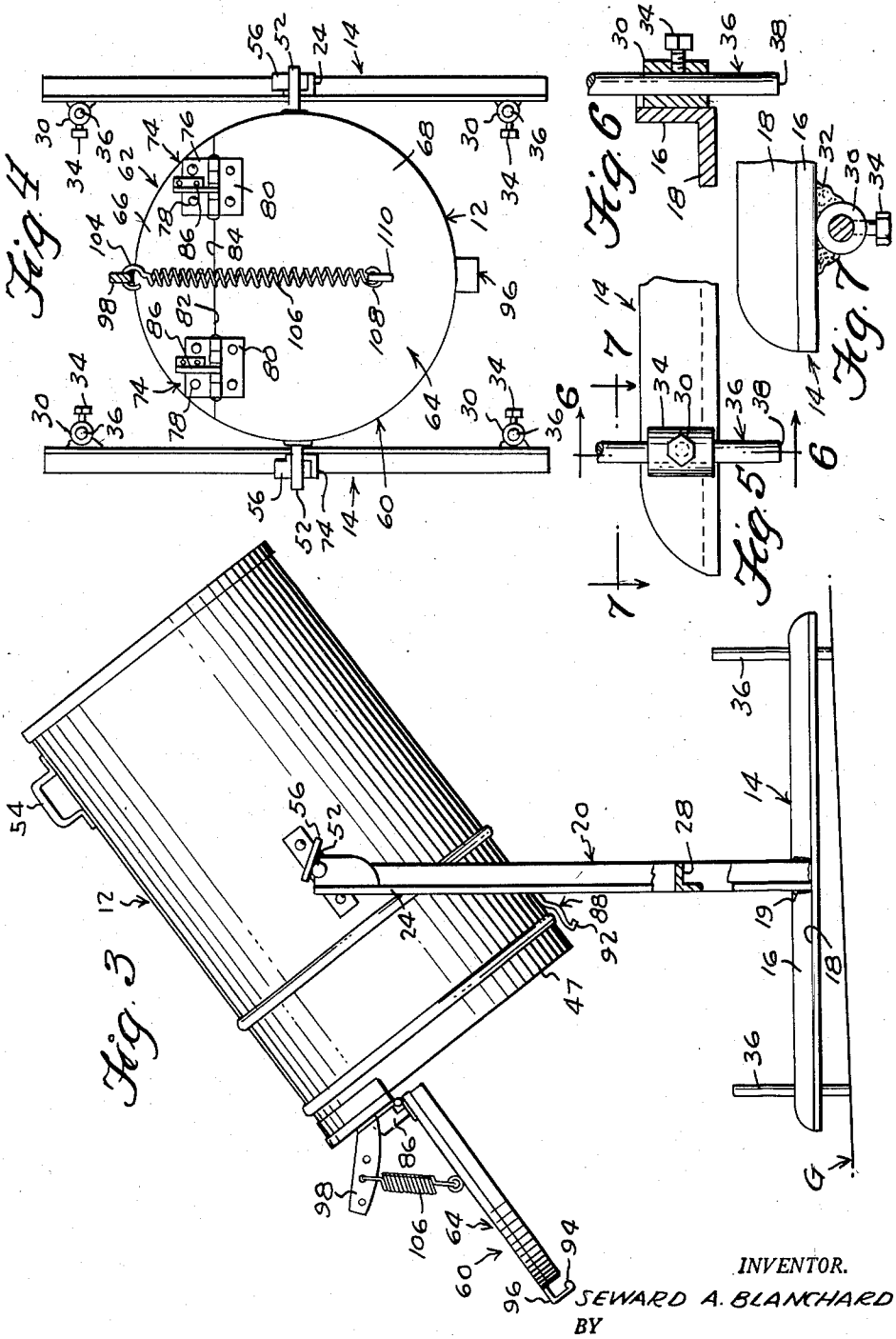


Fig. 4

Fig. 6

Fig. 7

Fig. 5

Fig. 3

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TILTABLE GARBAGE CAN ASSEMBLY

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3 Claims. (Cl. 248—137)

This invention relates to an improved tiltable garbage can assembly.

The primary object of the invention is to provide a more practical and efficient device of this kind which has a simpler and more adaptable support which is adjustable to level the same on uneven ground, and upon which the can component is more simply and efficiently mounted, and is capable of being lifted off the support, and upon which the can is tiltable, from an erect position, only in one direction, for emptying the can, the can having a hinged cover which is securely latched, when in closed position, and whereby upon release of the latching means, is spring-pressed to and stopped in a partly, but sufficiently open position, in which the cover is held by the spring means until the cover is manually closed and relatched.

Another object of the invention is to provide a device having the characteristics indicated above, whereby wind-tilting of the can is avoided by mounting the device with the back of the can to the prevailing winds, so that the can stop means acts to preclude tilting of the can in the emptying direction, and wherein opening of the can cover by animals or by the action of winds is positively prevented, and wind-banging and over swinging of the cover is prevented which would otherwise expose the contents of the can to being blown out of the can in windy weather.

Other important objects and advantageous features of the invention will be apparent from the following description and the accompanying drawings, wherein, for purposes of illustration only, a specific form of the invention is set forth in detail.

In the drawings:

Figure 1 is a side elevation of a device of the invention showing the support adjustably mounted on slanting ground, the can being in its normal erect position on the support, and the can cover being shown closed and latched in full lines and in an open and stopped position in phantom lines;

Figure 2 is a front elevation of the device, taken from the left of Figure 1;

Figure 3 is a side elevation, like Figure 1, showing the can in tilted dumping position, with its cover in unlatched and open position;

Figure 4 is a top plan view of the device;

Figure 5 is an enlarged fragmentary side elevation taken on the line 5—5 of Figure 2;

Figure 6 is a fragmentary vertical section taken on the line 6—6 of Figure 5; and

Figure 7 is a fragmentary horizontal taken on the line 7—7 of Figure 5.

Referring in detail to the drawings, wherein like numerals designate like parts throughout the several views, the illustrated device comprises a stand or support **10**, upon which a can **12** is tiltably mounted, with respect to a supporting surface, such as the ground G.

The support **10** comprises a pair of longitudinally elongated, horizontal side bars **14**, preferably of laterally

outwardly facing angle iron form, having vertical flanges **16** and horizontal flanges **18**. Fixed to the flanges **16** and **18**, at the outward sides of the flanges **16**, at the midlength points of the bars **14**, as by welds **19**, are single perpendicular uprights or standards **20**, preferably of angle iron form, and having longitudinal flanges **22** and lateral flanges **24**. Extending between the uprights and fixed to their flanges **22**, as by weldings **26**, at points near to and spaced above the side bars **14**, is a single angle iron cross bar **28**.

The support **10** further comprises adjustable ground-engaging means, at the ends of the side bars **14**, for levelling the side bars relative to an uneven or an angled ground surface, this means preferably comprises vertical sleeves **30**, secured to the inward sides of the side bar flanges **16** near to the ends thereof, as by weldings **32**, set screws **34**, threaded through the inward sides of the sleeves **30**, and perpendicular rods **36** which are held in vertically adjusted relations to related ones of the sleeves by the set screws **34**, with the lower ends **38** of the rods **36** reaching below the side bars **14** and engaging the ground G, as seen in Figures 1 and 2.

On the upper ends of the support standards **20**, are open pintle seating means which preferably have the form of upwardly opening notches **40** formed in the upper ends of the flanges **22** and in the upper ends of reinforcing plates **42**, fixed to the outward sides of the flanges **22** to provide wider pintle bearing than afforded by the flanges **22** alone. As seen in Figure 1, the lateral flanges **24** of the standards **20** are located at the front or forward sides of the standards.

The can **12** is vertically elongated and preferably cylindrical, has a closed bottom **44**, an imperforate and reinforced side wall **46**, and an open upper end **47**. Fixed, as by rivets **48**, to the outer sides of diametrically opposed parts of the side wall **46**, at a level above the midheight, and hence the center of gravity, of the can **12**, are vertically elongated plates **50**, to whose centers are centrally and rigidly fixed, radial laterally outwardly extending pintles **52**, to rest rotatably in the pintle seat notches **40** in the upper ends of the standards **20**, with can **12** between and freely spaced from the standards, as indicated in Figure 2. Fixed on the back of the can **12**, near its lower end, is a bail handle **54**, by means of which the can **12** can be easily and controllably tilted forwardly, from erect position, for dumping and for washing and rinsing out the can, and release of which conditions the can to return itself gravitationally to its normal erect position.

Can stop means, for positively stopping the can **12** in erect position as it returns itself from a forwardly tilted position, preferably comprises stop lugs **56**, fixed at their upper ends, as by means of weldings **58**, to the pintles **52**, the lugs **56** being forwardly and downwardly canted, as seen in Figure 1, so that their lower ends **59** make stop engagements with the rear sides of the lateral flanges **24** of the standards **20**, in the erect position of the can **12**, and positively prevent the can from being tilted, out of its erect position or from a forwardly tilted position, to a rearward tilted position, either by careless operation, or the actions of animals or winds.

The open upper end **47** of the can **12** is closable by a cover **60** which is composed of a rear or inner sector-shaped section **62** which is substantially permanently fixed around the rear of the upper end **47**, and a major front section **64**. The sections **62** and **64** have in common flat top walls **66** and **68** and depending arcuate flanges or side walls **70** and **72**, respectively, to bear against the outer side of the can side wall **46**.

The sections are assembled by a pair of laterally spaced hinges **74**, which have rear leaves **76** secured, as indicated at **78**, upon the rear section top wall **66** and front leaves

80, similarly secured upon the top wall of the front section 64, and bridging the facing and unflanged edges 82 and 84, respectively of the sections.

Fixed on and reaching upwardly and forwardly from the rear hinge leaf 76 of each hinge 74 and over the front hinge leaves 80, are forwardly extending stop arms 86, which are positioned to be engaged by the front cover section 64, as by the front hinge leaves 80, when the front cover section 64 is swung upwardly and rearwardly from closed telescoped engagement in the upper end of the can 12, to a right-angular open position, as shown in full lines in Figure 3 and in phantom lines in Figure 1, to enable garbage to be placed in the can and to be dumped from the can, and for washing the can.

The front cover section 64 is held in positively closed position by releasable latch means which preferably is in the form of a heavy gauge, upstanding spring latch bar 88, which has a lower end portion fixed to the outer side of the front of the can side wall 46, at a level spaced below the upper end 47 of the can 12, as by means of rivets 90. The latch bar 88 has a free upper end portion which terminates at its upper end in a forwardly directed hook 92, which is formed and arranged to engage over a hook flange 94 on an L-shaped detent 96 which is fixed on the outer side of the side wall 72 of the front cover section 64, as seen in Figures 1, 2 and 3. Relatively heavy inward pressure on the upper part of the latch bar 88, such as could not be expected to be exerted by an animal, is required to release the latch hook 92 from the hook flange 94 of the detent 96, so as to free the cover section 64 to be opened.

For automatically swinging the front cover section 64 upwardly to its stopped, open position, spring means is provided, which preferably takes the form of an upstanding rearwardly inclined anchor arm 98 which is fixed at its lower end, as indicated at 100, to a central part of the top wall 66 of the fixed rear cover section 62, and has vertically spaced adjustment holes 102 in its upper end, in which is selectively engaged a hook 104 on the rear and elevated end of a contractile helical spring 106, which has on its forward end a hook 108 engaged through an eye 110 fixed centrally in the top wall 68 of the front cover section 64 at a forward location thereon. The spring 106 is stretched and under tension between the anchor arm 98 and the front cover section, so that when the latch bar 88 is released from the hook flange 94, the front cover section 64 is pulled open by the spring 106, into stop engagement with the stop arms 86, and is held open thereagainst, until forcibly returned to closed position against the resistance of the spring.

The construction of the above described can makes the same rat, dog and fly-proof; and enables the can to be made in different sizes appropriate for use in homes, apartments, institutions, industrial and commercial establishments, and in public areas such as public parks.

Although there has been shown and described herein a preferred form of the invention, it is to be understood that the invention is not necessarily confined thereto, and that any change or changes in the structure of and in the relative arrangements of components thereof are contemplated as being within the scope of the invention as defined by the claims appended hereto.

What is claimed is:

1. A tiltable garbage can assembly comprising a stand and a can pivotally supported on the stand, said can having a side wall and an open upper end, a cover mounted on said upper end comprising a fixed rear section and a front section, hinge means mounting said front cover section on the rear cover section, latch means on the front of the can sidewall engageable with the front cover section for holding the front cover section in closed position, said hinge means comprising hinges having rear leaves fixed upon the rear cover section and front leaves fixed on the front cover section, and a forwardly inclined stop arm on a rear hinge leaf with which the front cover section is engageable in its rearwardly and upwardly swung open position, spring means secured to the front cover section for moving the front cover section to open position upon release of the latch means.

2. A tiltable garbage can assembly comprising a stand and a can pivotally supported on the stand, said can having a side wall and an open upper end, a cover mounted on said upper end comprising a fixed rear section and a front section, hinge means mounting said front cover section on the rear cover section, latch means on the front of the can sidewall engageable with the front cover section for holding the front cover section in closed position, said hinge means comprising hinges having rear leaves fixed upon a rear cover section and front leaves fixed on the front cover section, and a forwardly inclined stop arm on a rear hinge leaf with which the front cover section is engageable in its rearwardly and upwardly swung open position, spring means secured to the front cover section for moving the front cover section to open position upon release of the latch means, said spring means comprising an upstanding anchor arm fixed on said fixed cover section, and a contractile spring secured at related ends to and stretched between the anchor arm and the front cover section.

3. In a garbage can comprising a can having an open upper end, a cover for said open upper end comprising a fixed section secured on said upper end, and a movable section hinged on said fixed section to swing upwardly from closed position in engagement with said upper end, an upstanding stop arm fixed on said fixed section with which the movable cover section is engageable in an upwardly swung open position, latch means on the can for releasably holding the movable cover section in its closed position, and spring means connected to the movable cover section and the can for moving the movable cover section to its open position upon release of the latch means.

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