Oct. 7, 1952 D. R. ATKINSON 2,613,010

GARBAGE CAN AND SUPPORT THEREFOR

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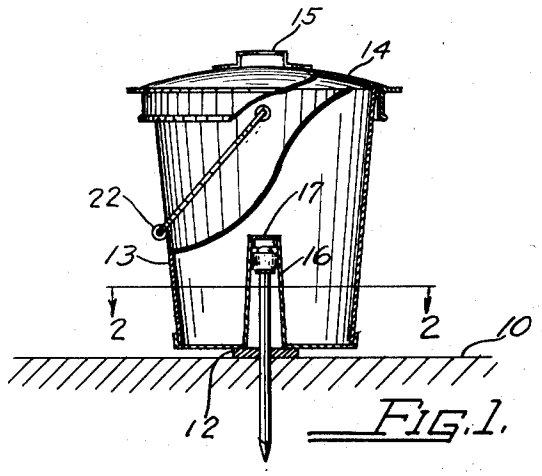


FIG. 1.

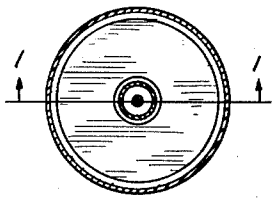


FIG. 2.

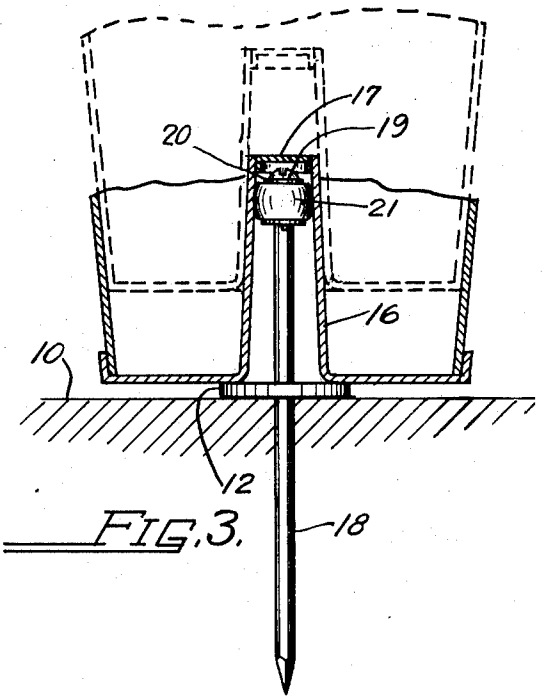


FIG. 3.

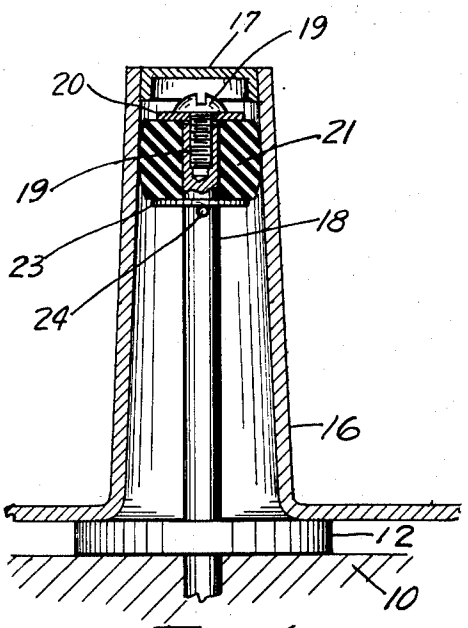


FIG. 4.

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GARBAGE CAN AND SUPPORT THEREFOR

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3 Claims. (Cl. 220—18)

1

This invention relates to improvements in garbage cans and supports therefor.

Garbage cans are widely used and are a source of considerable grief to the householders who frequently find that the neighborhood dogs have tipped it over on its side, removed the cover and scattered its contents over the ground.

Various means have been invented to latch the covers so that they can be removed only with considerable difficulty. The fact that the covers are latched does not prevent dogs from tipping the cans and rolling them considerable distances, frequently leaving them in the middle of the alley where they are likely to be dented and crushed by passing trucks.

It is the object of this invention to produce a garbage can and support that will positively retain the can in upright position and prevent it from being tipped over by animals.

Another object is to produce a garbage can that will not be noisy when acted on by a strong gust of wind.

A further object is to produce a garbage can of such construction that it can be readily cleaned and which can be nested so as to reduce the space required for shipment and storage of large numbers of cans.

A still further object is to produce a holding device in the form of a pin that can be driven into the ground and which shall have means for rotatably supporting the can in upright position and in such a way that it will not produce objectionable noise when acted upon by wind or when molested by dogs.

The above and other objects that may become apparent as this description proceeds are attained by means of a construction and arrangement of parts that will now be described in detail, for which purpose reference will be had to the accompanying drawing in which the invention has been illustrated and in which:

Figure 1 is a diametrical section through a garbage can constructed in accordance with my invention and shows the manner in which it is supported;

Figure 2 is a transverse section taken on line 2—2, Fig. 1;

Figure 3 is a fragmentary diametrical section, similar to Figure 1, and shows the can to a larger scale and

Figure 4 is a fragmentary diametrical section showing the supporting means to a scale approximately full size.

In the drawing reference numeral 10 designates the surface of the ground and 18 a steel or iron

2

pin that is provided intermediate its ends with a washerlike flange 12 that limits the distance it can be driven into the ground.

The can has been designated by numeral 13 and has been shown as provided with a cover 14 having a handle 15. The can is frusto-conical, flaring upwardly somewhat in the manner of an ordinary tin pail. The reason for flaring the can upwardly is that cans may be nested for storage and/or shipment.

At the center of the bottom is an upwardly tapering tube 16 whose upper end is closed by a wall 17. The taper is such that cans may be nested as indicated in Figure 3. Pin 18 projects upwardly from flange 12 a distance slightly less than the length of tube 16 and has its upper end provided with a threaded opening 18 for the reception of screw 19. A washer 20 is clamped between the upper end of the pin and the head of the bolt. The washer has a diameter somewhat greater than the pin and therefore projects beyond the surface of the pin forming a stop for the rubber ring 21, whose outer diameter is substantially the same as the inside diameter of the tube at that point. A washer may be positioned beneath the ring as indicated by 23 and 24 in Figure 4.

The parts are so proportioned that when the bottom of the can rests on flange 12 the head of the screw will be a short distance below the under surface of enclosure 17. The head of the screw, in addition to holding washer 20, also serves to receive the hammer blows when driving the pin into the ground. Instead of a screw, as shown, a tap bolt with a hexagonal or square head may be used.

After the pin has been driven into the ground until the under surface of flange 12 prevents further downward movement the can is positioned on the pin as shown in the several figures.

The rubber ring 21 is preferably of such diameter that it will be slightly compressed when the can rests on the flange, if not in actual contact it should fit the tube quite snugly.

It is evident that it is practically impossible for a dog or other animal to tip the can after it is positioned on the pin.

A person, however, by grasping bail 22 may lift the can to a point over the top of the pin and after it has been emptied and washed, can replace it thereon.

Particular attention is called to the relationship of the parts shown in Figure 4, to which this invention is directed and to the upward taper of

tube 16 in combination with the upwardly flaring side wall of the can.

Ring 21 has been referred to as a rubber ring but it may be of any other suitable material even wood.

What is claimed as new is

1. A garbage can and support therefor comprising in combination, a can having a central opening in its bottom, an upwardly tapering tube secured to the bottom in concentric relation with the hole therein, the upper end of the tube being closed, a support pin having a flange intermediate its ends, the lower end being tapered to facilitate driving it into the ground, the other end projecting upwardly into the tube, and a ring of rubber or the like surrounding the pin near its upper end, the length of the pin above the flange being slightly less than the distance from the bottom of the can to the top of the tube so that the can will rest on the flange and be held against tilting by that portion of the pin in the tube, the diameter of the ring being substantially equal to

the inside diameter of the tube at the point where the ring is located whereby tilting movement of the can will be limited relative to the pin.

2. A device in accordance with claim 1 in which the wall of the can is upwardly flaring so that several cans can be nested to save space during storing and shipment.

3. A device in accordance with claim 1 in which the pin is provided with means to hold the ring from longitudinal movement on the pin.

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