March 8, 1960 E. E. GOFORTH 2,927,755

HOLDERS FOR CONTAINERS

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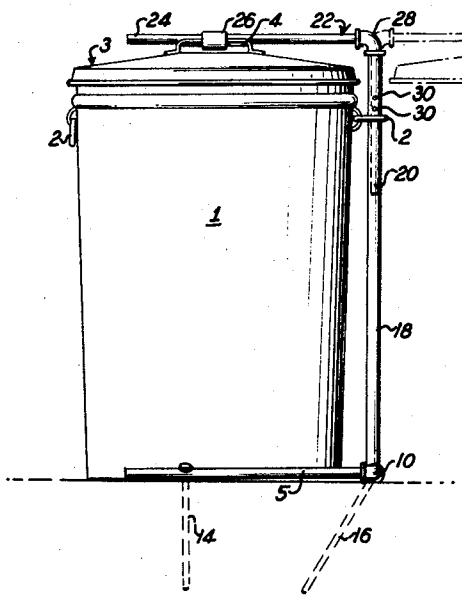


FIG. 1

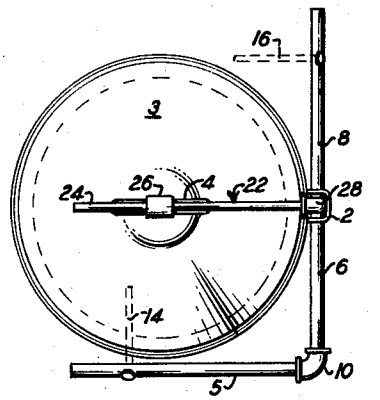


FIG. 2

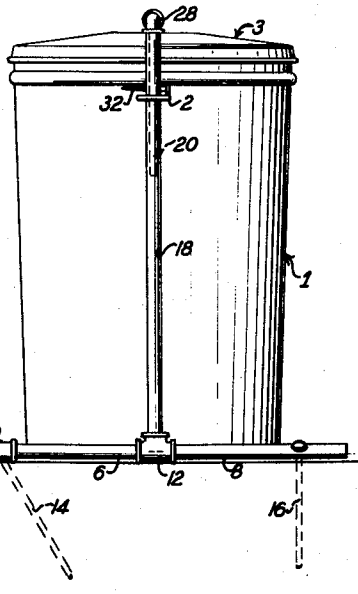


FIG. 3

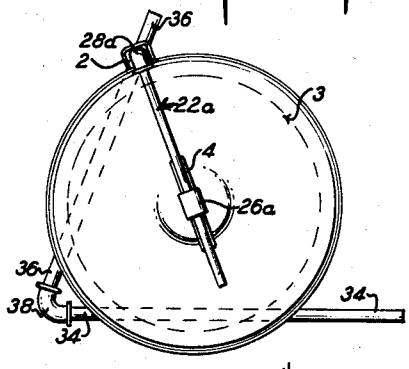


FIG. 4

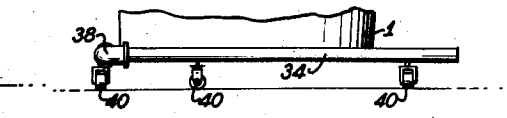


FIG. 5

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HOLDERS FOR CONTAINERS

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1 Claim. (Cl. 248—124)

This invention relates to holders for containers, and more particularly, to holders or mounting devices for garbage cans and the like.

It has long been recognized as desirable to mount garbage cans and the like in such a way that they cannot be turned over and their contents spilled by dogs or other animals, and so as to reduce the likelihood that they will be tampered with by playful children. Various structures have been proposed heretofore for this purpose. However, many of these are expensive, difficult to install, and/or inconvenient to use.

Accordingly, it is an object of this invention to provide an improved holder for containers which can be supplied economically, which can be installed easily, and which will be convenient to use.

A more specific object of this invention is to provide a holder which may be shipped as a compact package of simple elements, and assembled at the point of use without difficulty.

Another object of the invention is to provide a holder for a container with means for locking the lid of the container in place, but permitting the removal of the lid to another supported position when it is desired to insert materials into the container.

The foregoing objects are accomplished according to this invention by the provision of a holder having a simple base made up of two elongated elements secured together in angular relation, an upright member connected to one of the elongated elements of the base and extending upwardly along one side of the container, and an arm disposed in telescopic relation with the upper end of the upright and having a laterally extending portion attached to the lid of the container. The upright is of a size such that it may pass through the handle customarily attached to containers of the type with which the invention is primarily concerned, to fix such container to the holder. The lid of the container may be locked in place by a pin which passes through aligned openings in the telescopically related portions of the upright and the member to which the lid is attached.

A better understanding of the invention and of its many objects and advantages can be gained from consideration of the following detailed description of certain embodiments thereof illustrated in the accompanying drawings, in which:

Fig. 1 is an end elevational view of one embodiment of this invention, showing its relationship to a garbage can of conventional construction, and showing in dotted lines an alternative position of the lid of the garbage can and associated parts of the holder of this invention;

Fig. 2 is a plan view of the embodiment of Fig. 1;

Fig. 3 is a side elevational view of the embodiment of Fig. 1;

Fig. 4 is a plan view of another embodiment of the invention; and

Fig. 5 is a partial elevational view of the embodiment of Fig. 4.

Although a garbage can 1 has been illustrated in the drawings, it will be evident that the invention is applicable also to other types of containers. As is customary, the garbage can 1 has pivotally attached to the sides thereof handles 2. These handles usually are in the form of wire bails so that openings are provided for the fingers of one's hands to facilitate grasping thereof. A suitable closure, or lid 3, is positioned upon the upper end of the garbage can 1, and a handle 4 is attached to the central portion of the lid 3.

In the embodiment illustrated in Figs. 1 to 3, the holder or mounting device of this invention is provided with a base made up of three rods or pipes 5, 6, and 8. These elements may have any desired cross section, but it is preferred that at least one end of the element 5, one end of the element 8, and both ends of the element 6, be circular in cross section and that these ends be threaded so that the elements may be joined together by simple pipe fittings. The elements 5 and 6, as illustrated, are connected together by an elbow 10, and the elements 6 and 8 are connected together by a T-fitting 12.

It should be noted that the rods or pipes 6 and 8 are disposed in alignment. Hence, they may be considered a single element. Moreover, if desired, the two sections 6 and 8 may be integral, and the T-fitting 12 may be attached to a central portion thereof by welding or other suitable means.

The end portions of the rods or pipes 5 and 8, remote from the elbow 10, are provided with apertures for the reception of anchoring spikes 14 and 16, which may be driven into the ground or into some other supporting surface to secure the holder in position. The apertures are inclined in such a way that the spikes 14 and 16 enter the supporting surface at an angle to the vertical. As illustrated, the lower ends of the spikes 14 and 16 are closer to the vertical plane bisecting the angle formed by the elbow 10 than any other portions of these spikes.

Extending upwardly from the base of the device is an upright 18 which is preferably in the form of a pipe, although other configurations may be used if desired. The lower end of the upright 18 is secured rigidly to the T-fitting 12, and its upper end portion passes through the opening in one of the handles 2 in the garbage can 1 so as to hold the garbage can 1 in position with respect to the base and the upright.

The upper end portion of the upright 18 is hollow, and is of generally circular internal cross section. Disposed within the upper end portion of the upright 18 is a vertically extending portion or section 20 of a member designated generally by the numeral 22. The section 20 may be in the form of a pipe or a rod. In any event, it should have a generally circular external cross-section so that it may slide vertically within the hollow upper end portion of the upright 18, and so that it may swing about the axis of the upright 18.

The member 22 also includes a laterally extending portion or section 24 disposed above the lid 3 of the container 1. This portion is preferably of such a shape that it may fit within the longitudinal depression normally provided in the handle 4 attached to the lid 3 of the garbage can. A resilient metal clip 26, or other suitable means, is provided for attaching the portion 24 of the member 22 to the handle 4 of the lid 3 of the garbage can.

As illustrated, the member 22 is so constructed that the vertically extending section 20 may be detached from the horizontally extending section 24 for shipping. These sections have threaded portions which are connected together by an elbow 28.

Referring to Fig. 1, it will be seen that the upright 18 is provided with a plurality of apertures 30 therethrough, near its upper end. Although only two such apertures have been illustrated, it will be understood that the number used in practice may vary considerably. The ver-

tically extending portion **20** of the member **22** also is provided with an aperture which may be brought into alignment with the apertures **30** in the upright **18**, so that a pin **32** may be inserted through the aligned openings to lock the member **22** against relative movement with respect to the upright **18**.

The provision of a plurality of apertures **30** in the upright **18** permits adjustment of the structure to accommodate containers of different heights. It will be understood, however, that only one aperture **30** cooperates with the pin **32** at any given time.

When it is desired to insert material into the container **1**, the pin **32** is removed. Then the member **22** may be raised slightly to free the lid **3** of the container from its engagement with the upper end portion of the container, and the member **22** may be swung or rotated about the axis of the upright **18** to the position indicated in dotted lines in Fig. 1. In this position, the lid **3** does not interfere in any way with the loading of the container **1**. Moreover, the lid **3** is supported in this alternative position so that the user of the equipment may apply both of his hands to the task of loading the container. Support for the lid **3** in the alternative position is provided by the bearing relationship which exists between the elbow **28** of the member **22** and the upper end of the upright **18**.

When it is desired to unload the garbage can **1**, the pin **32** may be removed, and the member **22** lifted sufficiently to remove the section **20** from the upright **18**. Then, the container **1** may be lifted to move its handle **2** over the upper end of the upright **18**. When this is done, the garbage can **1** may be carried or moved as necessary to position it for the removal of its contents. It may be returned to the holder of this invention by simply reversing the above procedure.

In the embodiment of Figs. 4 and 5, several variations have been illustrated. The base of this embodiment includes two elongated elements **34** and **36** connected together at their adjacent ends by a fitting **38** of a shape such that the elements form an acute angle with each other. Also, the base of the garbage can is of a size such that it may rest upon the upper surfaces of the elongated elements **34** and **36**. This relationship is of considerable importance in many environments in that it keeps the garbage can away from the supporting surface and away from any moisture that may be on such surface. Consequently, corrosion of the can is minimized.

The embodiment of Figs. 4 and 5 also includes elements corresponding to the upright **18**, the member **22**, and the clip **26**, of the embodiment of Figs. 1 to 3. Certain elements have been designated by the numerals **28***a*, **22***a*, and **26***a*, to indicate that they may be identical to the correspondingly numbered elements in the embodiment previously described.

The base formed by the elements **34**, **36** and **38**, need not be fixed in position with respect to the ground or other supporting surface. If desired, these elements may carry a plurality of rollers **40** in depending relationship therewith so that the holder may be moved from place

to place during use. It will be understood, however, that the base formed by the elements **34**, **36**, and **38**, may be spiked to the ground when desired, instead of mounting it upon the rollers **40**.

Additionally, it is pointed out that, by adding another elbow and another elongated element to the end of either of the elements **34** or **36**, a generally U-shaped base may be formed.

Although the invention has been described in detail with reference to certain specific embodiments thereof, variations and modifications will be apparent to persons skilled in the art. It is intended, therefore, that the foregoing description be considered as exemplary only, and that the scope of the invention be ascertained from the following claim.

I claim:

A holder for a container having mounted upon a side thereof a handle provided with an opening and having removably positioned upon the upper end thereof a lid provided with a handle projecting upwardly from a central portion of the upper surface of said lid, comprising a base including first and second elongated rods, means detachably securing adjacent ends of said rods in angular relation in a horizontal plane, an upright rod detachably secured at its lower end to one of the base rods intermediate the ends of the latter and adapted to extend upwardly along said side of the container through said opening in the handle on said container and having a hollow upper end portion of substantially circular internal cross section, said upper end portion of said upright rod having a plurality of vertically spaced pairs of aligned apertures therein, a member having a laterally extending portion adapted to be positioned above said lid and a vertically extending portion of substantially circular external cross section removably disposed within said upper end portion of said upright rod, said vertically extending portion of said member having an aperture therethrough which may be aligned with any one of said pairs of apertures in said upright rod, means for securing said laterally extending portion of said member to the handle on said lid and a pin removably positioned in the aperture through the vertically extending portion of said member and a pair of said apertures in said upright rod aligned therewith, said base rods adapted to extend outside the perimeter of the base of the container, said base rods having spikes extending downwardly and laterally into the supporting surface.

References Cited in the file of this patent

UNITED STATES PATENTS

1,249,315	Brandvold	Dec. 11, 1917
1,628,722	Haertel	May 17, 1927
1,646,064	Obermeyer	Oct. 18, 1927
2,314,331	Fallis	Mar. 23, 1943
2,430,672	Gandrud	Nov. 11, 1947
2,471,257	Blank	May 24, 1949
2,665,868	Schmidt	Jan. 12, 1954
2,732,155	Stanley	Jan. 24, 1956