June 10, 1958 M. V. HILL 2,838,264

WASTE CAN HOLDER

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Fig. 1

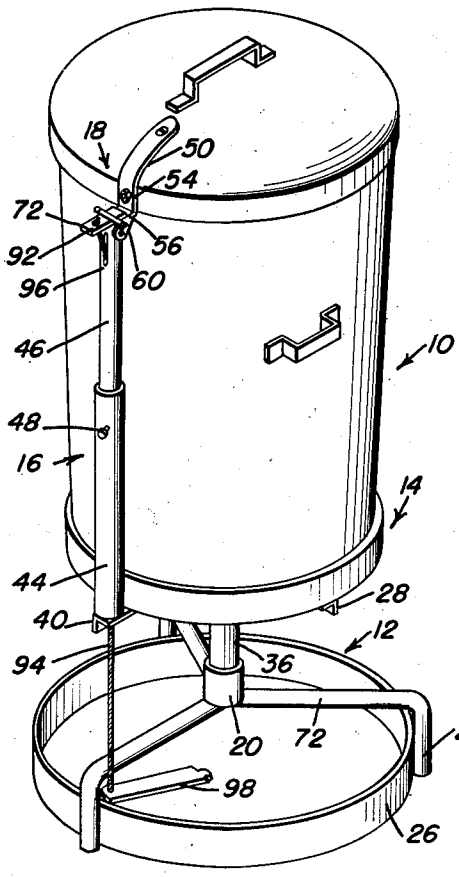


Fig. 2

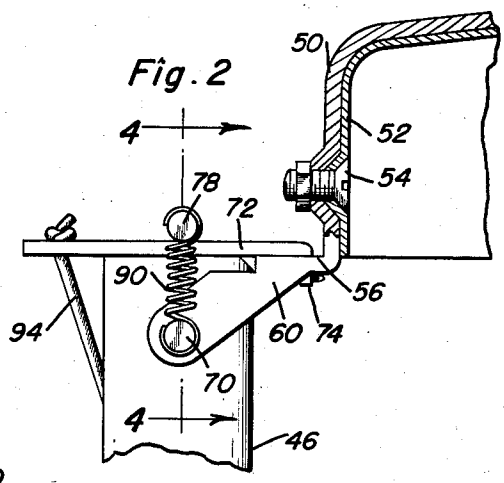


Fig. 3

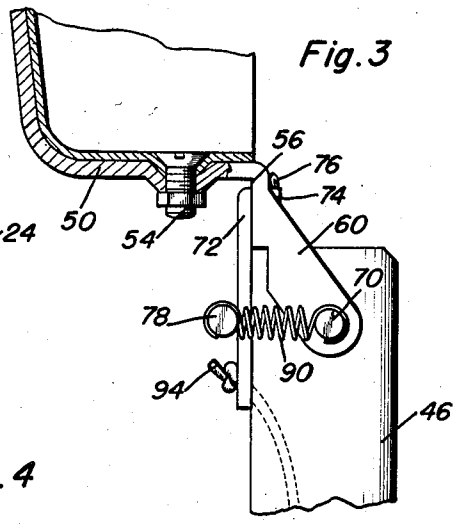
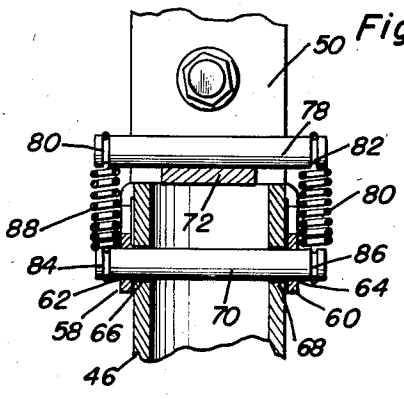


Fig. 4



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Fig. 5

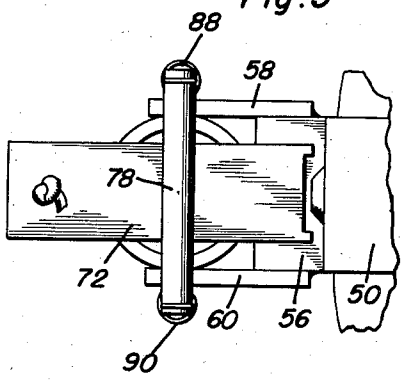


Fig. 6

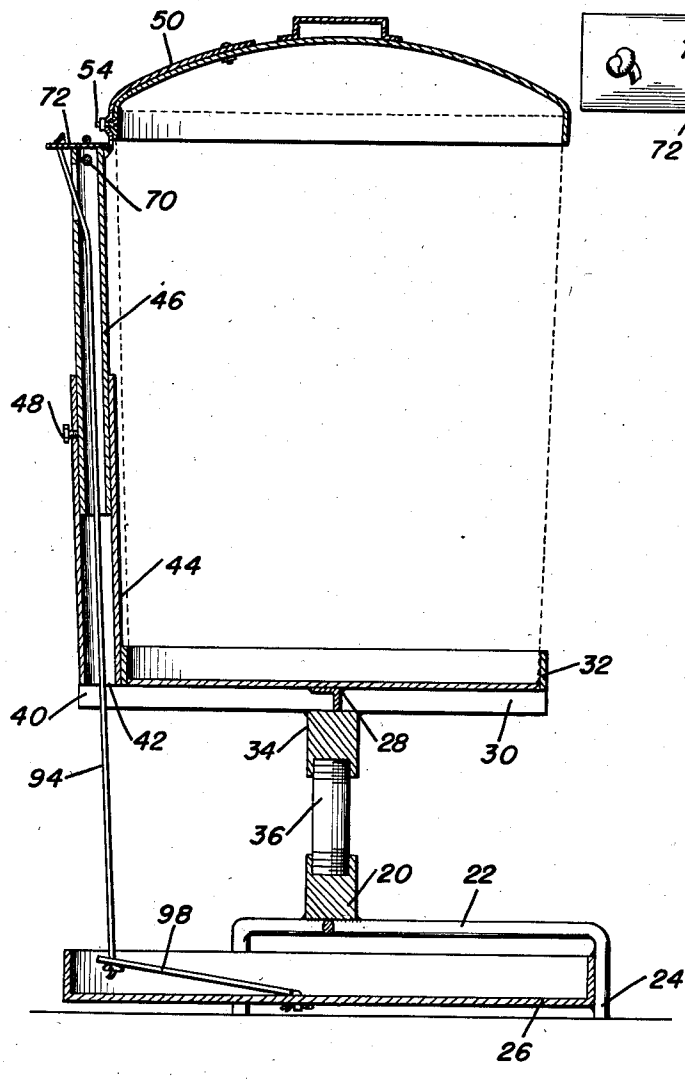




Fig. 7

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WASTE CAN HOLDER

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1 Claim. (Cl. 248—147)

This invention relates to a waste can holder and particularly to a device for supporting a waste can in spaced relation from the ground and having means for opening and closing the lid thereof and retaining the lid in open or closed relation at will.

In the utilization of waste cans such as garbage pails and the like, it is frequently found that there is a mass or litter about the pail because the pail necessarily rests on the ground or other supporting platform and there is no convenient way of cleaning about the base of the device. Further, considerable inconvenience results in the necessity of having to remove the lid of the container so that waste material may be placed therein, with the result that lids frequently become battered and mishappen so that they fail to properly close the cans so that odors frequently emanate therefrom and insects of various kinds may get therein.

In the construction according to the present invention, a base member is provided for mounting on the ground or other supporting platform and a can supporting platform is mounted in spaced relation from the base so that the space in and about the base may be readily cleaned. A vertically disposed standard is placed adjacent the can supporting platform and may be adjusted to fit the height of any desired can mounted on the platform and a lid supporting member is shaped to be rigidly attached to a lid to fit the can on the platform and ears are provided on the can lid supporting member to be hingedly connected to the top of the standard and biasing means are provided for retaining the hinge in either open or closed position at will. Further, a treadle device is provided for operating the lid into open position so it is not necessary to set down the waste materials in order to open the can.

It is accordingly an object of my invention to provide an improved waste can holder.

It is a further object of the invention to provide a waste can holder in which the lid may be retained in either open or closed position at will.

It is a further object of the invention to provide improved means for opening the lid of a waste can.

Other objects and many of the attendant advantages of the present invention will be apparent from the following detailed description taken in conjunction with the accompanying drawing, in which:

Figure 1 is a perspective view of the can holder with the can positioned therein;

Figure 2 is an enlarged vertical elevation with parts broken away and in section of the can lid supporting hinge;

Figure 3 is a similar view showing the lid supported in open position;

Figure 4 is a vertical sectional elevation taken substantially on the plane indicated by the section line 4—4 of Figure 2 and showing the construction and mounting of the improved lid hinge;

Figure 5 is a top plan view of the lid supporting hinge;

Figure 6 is a vertical sectional elevation through the can holder showing the manner of operating the hinge; and

Figure 7 is a view of an anchor pin to be connected to the device.

In the exemplary embodiment according to the invention, a waste can such as a garbage can **10** is mounted in the can support comprising a base member **12**, a can supporting platform **14**, a standard **16** and a lid supporting hinge **18**.

The base **12** comprises a collar member **20** and a plurality of radially disposed legs **22**, herein indicated as three in number, although obviously any desired number of radial legs could be used. The legs **22** terminate in downturned portions **24** and a weight receiving pan **26** is secured to the downturned portions **24** so that sand, cement, or the like may be readily mounted therein to keep the can holder from being upset.

The can supporting platform **14** comprises a pair of angle members **28** and **30** arranged in cruciform formation and having a rim **32** placed thereon for receiving the bottom of a can **10**. A collar **34** is mounted axially of the platform **14** and a suitable spacer member such as a pipe nipple **36** is secured in the collars **20** and **34** for mounting the platform **14** at a suitable distance from the base **12**.

When the character of the ground permits, the base **12** may be omitted and a stake pin **38** may be connected to the collar **34** in place of the nipple **36** and driven into the ground to support the platform **14**.

A portion of the angle bar **30** extends out to provide an extension **40** which extends beyond the upstanding rim **32** and is provided with an aperture **42** for a purpose presently to be described.

The standard **16** is mounted on the extension **40** of the angle member **30** and is constituted of an outer telescoping member **44** and an inner telescoping member **46**, with the members **44** and **46** being substantially tubular to provide a central passage therethrough. A setscrew **48** is provided in the outer member **44** so that the members **44** and **46** may be locked together in any desired position.

The lid supporting member **18** comprises a strap like portion **50** adapted to be secured to a can lid **52** by any suitable means such as the screw fasteners **54**. The strap member **50** is bent sharply outwardly to provide a horizontal extending ledge or shoulder **56** and a pair of downturned ears **58** and **60** are provided on opposite sides of the shoulder **56** and extend downwardly and outwardly therefrom. The ears **58** and **60** are provided with apertures **62** and **64**, respectively, and the inner standard member **46** is provided with an aperture **66** and **68**. A pintle pin **70** extends through the apertures **62**, **64**, **66** and **68** to hingedly connect the ears **58** and **60** with respect to the standard **46**.

A flap member **72** is hingedly mounted on the shoulder **56** by a portion **74** extending therethrough and being secured by means of a suitable fastener such as a cotter pin **76**. The flap **72** extends outwardly across the top of the top standard portion **46** and a transverse bar **78** extends across the flap **72** and is provided with grooves **80** and **82** adjacent the opposite ends thereof. The pintle pin **70** is likewise provided with annular grooves **84** and **86** adjacent the opposite ends thereof and tension springs **88** and **90** are secured between the pintle pin **70** and the cross-bar **78** and resiliently urge the cross-bar **78** toward the pintle pin **70**.

As hereinbefore stated, the flap **72** extends outwardly beyond the post portion **46** and is provided adjacent the outer end thereof with an aperture **92**. A flexible tension member such as a wire cable, chain, cord or the like, in-

dicated at **94**, is secured through the aperture **92** and extends through a slot **96** adjacent the top of the post member **46** and extends downwardly through the post **46** and **44** and through the aperture **42** in the extension **40**. A treadle **98** is hingedly mounted on the weight receiving pan **26** and the tension member **94** is connected thereto by any suitable manner.

In the operation of the construction according to the invention, the base is anchored either by means of the pin **38** or by means of applying a weight in the pan **26** so that the device is substantially immovable. A desired waste can is mounted on the platform and the standard **16** adjusted by means of the telescoping members **44** and **46** to the proper height for the particular waste can. The lid to be utilized on the waste can is connected to the member **50** which in turn is hinged at the top of the standard **16** on the member **46**. Springs **88** and **90** will constantly urge the flap into the shortest possible extension of the springs **88** and **90** and when the lid is in closed position, it will continually force the lid into closed position. However, when the lid is raised sufficiently to pass over center, the bar **78** will cause the flap **72** to move against the side of the member **46** as shown in Fig. 3 to resiliently hold the lid in upstanding position. When desired to deposit material in the can **10**, the treadle **98** is depressed, causing the flap **72** to lift the lid so that the bar **78** will pass over center and hold the lid in vertical position. In this manner, both hands of the operator are free to deposit material in the can without the necessity of setting the container down or otherwise releasing the material before depositing it in the can.

When desired to close the lid, the lid is merely moved toward the closing position and as soon as the bar **78** has moved over center, the flap **72** will be urged into contact with the top of the member **46** so that the lid will be forced to closed position.

It will thus be seen that the present invention provides a can holder in which the can may be readily mounted or dismounted at will and in which the lid for the can may be operated without the hands of the operator and will be constantly maintained on the holder so that it will not be battered, lost or otherwise rendered unfit for use.

For purposes of exemplification, a particular embodiment of the invention has been shown and described according to the best present understanding thereof. However, it will be apparent to those skilled in the art that various changes and modifications may be resorted to either in the arrangement or construction of the parts thereof without departing from the true spirit and scope of the invention.

What is claimed as new is as follows:

A holder for a garbage can comprising a supporting structure for seating a garbage can, a standard rising from said structure and having a free upper portion and a horizontal flat top, a member attachable to a garbage can lid to support the same and having a pair of lateral ears thereon straddling and connected by a pivot to the upper portion of said standard for vertical swinging into lowered and raised positions to lower and raise a garbage can lid, an elongated flap surmounting and hinged to said member and seating flat on said top and against one side of the standard in the lowered and raised positions, respectively of said member to establish said positions, a cross-bar on said flap having ends extending outwardly beyond said flap and standard, and a pair of tension springs at opposite sides of said standard terminally connected to said bar and to said pivot and urging said bar and flap toward said standard to maintain said flap seated for yieldingly retaining said member in lowered and raised positions.

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