Dec. 21, 1965 R. A. MOTT 3,224,717

GARBAGE CAN SUPPORT

Filed Dec. 2, 1963 2 Sheets-Sheet 1

Fig. 1

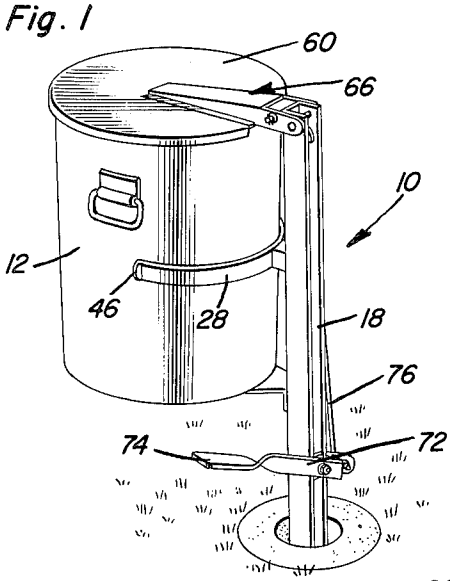



Fig. 2

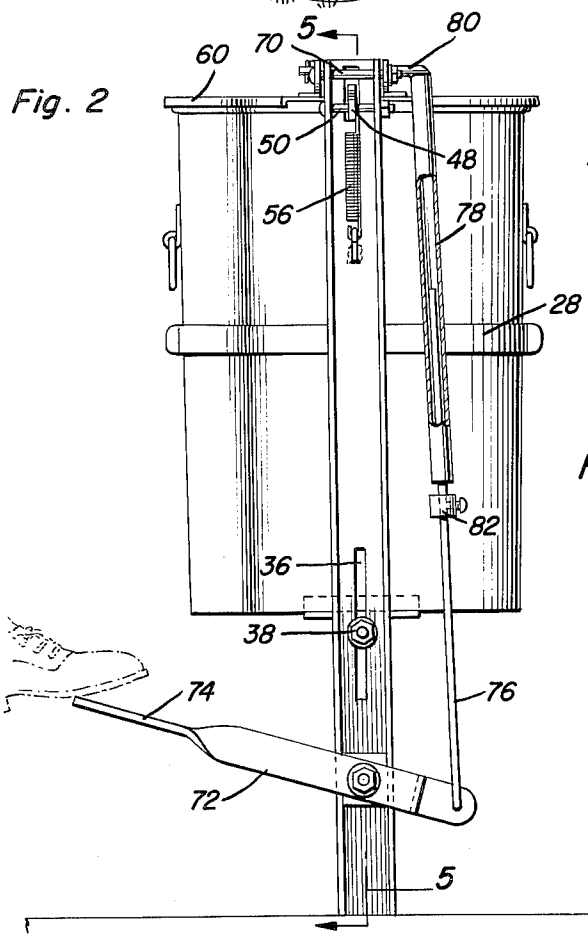
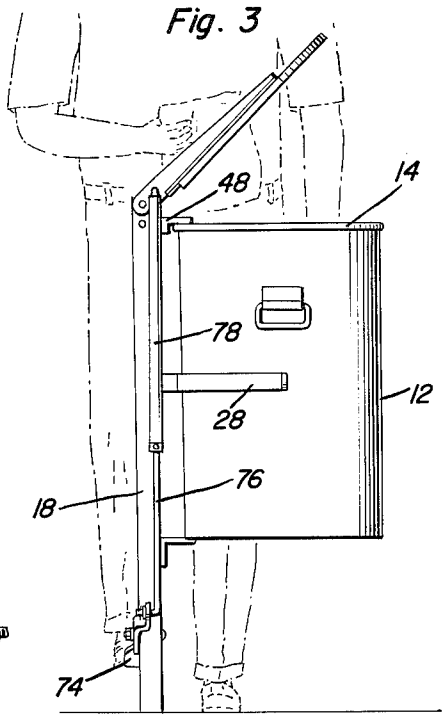



Fig. 3



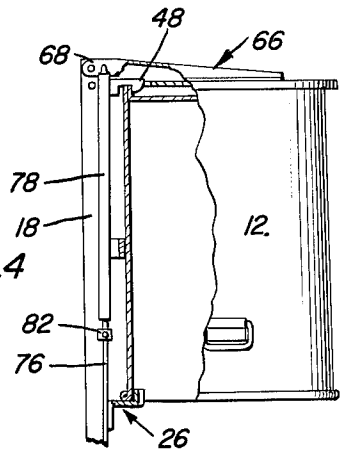




Fig. 4

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GARBAGE CAN SUPPORT

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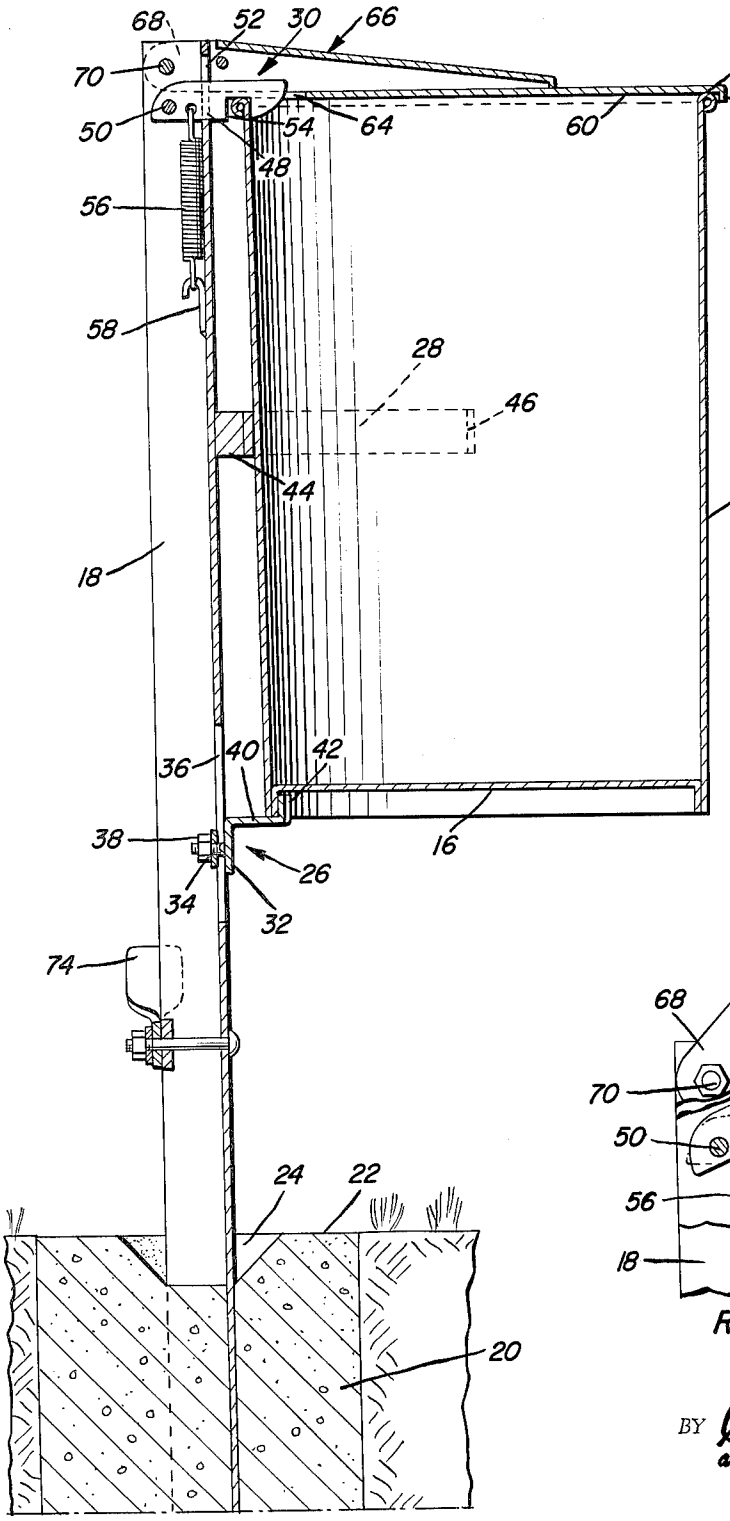
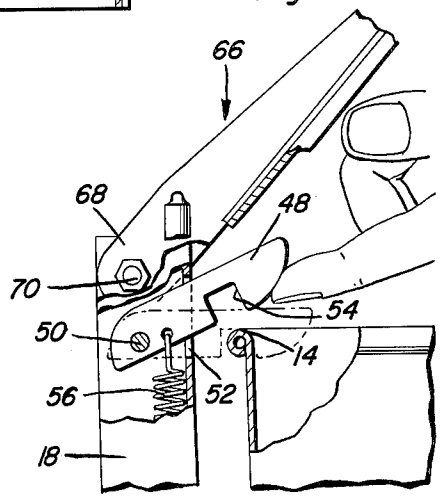



Fig. 5

Fig. 6




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3,224,717

# GARBAGE CAN SUPPORT

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6 Claims. (Cl. 248—147)

The instant invention generally relates to garbage can supports, and more particularly relates to a support which, in addition to incorporating novel means for retaining the garbage can, also includes a lid for the garbage can which can be easily and conveniently raised either by hand or by foot.

It is a primary object of the instant invention to provide a garbage can support which will safely and stably support a garbage can while maintaining the can in position for easy access thereto.

Another significant object of the instant invention is to provide a garbage can support upon which the can can be quickly and easily mounted and removed.

Further, it is an object of the instant invention to provide a garbage can support which holds the can vertically off of the ground so as to retain the can out of the reach of most animals and insects.

In addition, it is an object of the instant invention to incorporate into the garbage can support additional means for discouraging the tendency for various insects, such as ants, to accumulate about the can through the use of a special insecticide reservoir about the support post.

Another object of the instant invention is to provide a support which will accommodate any conventional garbage can in either an upright or normal position, or in an inverted position such as might be desired for a drying of the can after it has been washed.

Likewise, it is an object of the instant invention to provide a support which is vertically adjustable so as to accommodate different size cans.

Furthermore, it is an object of the instant invention to provide a garbage can support which, while highly novel in construction, is basically a relatively simple structure capable of being economically produced.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

FIGURE 1 is a perspective view of the garbage can support of the instant invention with a garbage can mounted thereon;

FIGURE 2 is an enlarged rear elevational view of the support with portions broken away for purposes of illustration;

FIGURE 3 is a side elevational view of the support with the lid being raised by the foot of a user;

FIGURE 4 is a partial elevational view with portions broken away so as to illustrate the manner in which a can is to be supported in an inverted position;

FIGURE 5 is an enlarged vertical cross-sectional view taken substantially on a plane passing along line 5—5 in FIGURE 2; and

FIGURE 6 is an enlarged partial elevational view, with portions broken away, of the upper portion of the post illustrating the manner in which the latch is to be disengaged.

Referring now more specifically ot the drawings, reference numeral **10** generally designates a garbage can support of the instant invention, this support **10** being adapted to support any conventional garbage can **12** including a planar upper edge **14** and a recessed bottom **16**.



The support **10** consists basically of a vertical post **18** which may be either channel-shaped, as illustrated, or any other particular shape as may be deemed desirable such as for example tubular. The lower end of this post **18** is embedded within a concrete footing **20** which has the upper surface **22** thereof recessed, as indicated by reference numeral **24**, about the post so as to form a reservoir for the reception of some insect repellent, such as for example oil, thereby eliminating any possibility of crawling insects gaining access to the garbage can.

The garbage can **12** is supported on the post **18** by an adjustable ledge **26** engageable with the lower end of the can **12**, whether the can be upright as illustrated in FIGURE 5 or inverted as illustrated in FIGURE 4, a flat semi-circular band **28** conforming to and receiving an intermediate portion of the cam **12**, and a latch mechanism **30** engaged over the upper edge of the can **12**.

The support ledge **26** includes a vertical flange **32** engageable flush against the front face of the post **18** and having a rearwardly projecting threaded stud **34** thereon which in turn projects through a vertically elongated slot **36** so as to provide for the aforementioned vertical adjustment of the ledge **26**, the bolt means **38** being used to lock the ledge in any of its vertically adjusted positions. In addition, the ledge includes a horizontally projecting portion **40** upon which the lower edge of the can **12** rests, and a vertically extending lip **42** engaged with the adjoining inner portion of the lower edge of the can **12** so as to prevent outward movement of the lower end of the can.

The centrally located band **28** is rigidly affixed to the post **18** at the center thereof through a spacer block **44** so as to position this band **28** snugly about the can **12** when mounted in the manner best illustrated in FIGURE 5. Incidentally, it will be noted that the extreme ends **46** of the band **28** are outwardly directed so as to not interfere with the mounting of the can **12**.

The latch means **30** consists of an elongated latch bar **48** rotatably mounted adjacent its rear end on a transversely extending pin **50**, the latch **48** extending forwardly from the pin **50** through a vertically elongated slot **52** in the forward face of the post **18** and a sufficient distance therebeyond so as to engage over the upper edge **14** of a can **12**, the latch **48** including a recess **54** in the lower edge thereof so as to form in effect a hook engageable with the edge **14**. It will be appreciated that the upper and lower limits of the slot **52** also act as limits or stops for the latch **48**. It is contemplated that this latch **48** be constantly biased downwardly into engagement with the upper edge **14**, and as such, an elongated tension spring **56** is engaged with the latch **48** between the pin **50** and the slot **52**, the lower end of the spring **56** being engaged with a hook **58** fixed to the post **18** below the latch **48**.

In order to provide a closure for the can **12**, a lid **60** is permanently mounted on the post **18** for movement between a horizontal position resting upon the upper edge of the can **12** and a generally vertical position so as to allow access to the can **12**. This lid consists basically of a circular plate conforming to the top of the can **12** and including a depending lip **62** thereabout. With reference to FIGURE 5, it will be noted that the lid **60** is provided with a slot **64** so as to accommodate the inner end of the latch **48**, this slot **64** receiving the latch **48** as the lid **60** is closed thus ensuring a positive engagement of the lid **60** with the upper edge **14** of the can **12**.

The lid **60** is pivotally secured to the upper end of the post **18** by a structure **66** which additionally provides, in effect, a housing for the latch **48** and slot **64** so as to complete the enclosure. This housing **66** consists generally of an inverted elongated channel-shaped member rigidly affixed to the upper surface of the lid **60** and extending

radially thereon and therebeyond, this housing **66** gradually increasing in height from its outer end toward the post-engaging end. The post-engaging end of the housing **66** includes two rearwardly extending ears **68**, which are in effect continuations of the side walls of the inverted U-shaped member, these ears being orientated on opposite sides of the post **18** and rotatably mounted upon a transversely extending pin **70** which projects through the post **18** thus allowing for a vertical raising or rotating of the lid **60** away from the upper edge **14** of the can.

It is contemplated that this lid **60** be lifted through the use of either the hand or the foot, and as such, an elongated foot-actuated bar **72** is pivotally secured to the lower end of the post **18**, this bar having a foot-receiving pedal or platform **74** at one end thereof with the other end of the bar **72** pivotally secured to the lower end of a vertically projecting rod **76** which is in turn telescopically received within an elongated tube **78**, this tube **78** having a laterally projecting pin **80** at its upper end rotatably engaged within the housing **66** slightly forward of the forward face of the post **18**. An adjustable stop or collar **82** is mounted on the rod **76** below the lower end of the tube **78** for engagement with the lower end of the tube **78** upon a vertical movement of the rod **76** effected by a downward pressure on the pedal portion **74** of the bar **72** whereby a raising of the lid **60** is effected. The stop **82** is specifically provided as adjustable in order that the degree of opening of the lid **60** might be varied. Further, it will be appreciated that inasmuch as the tube **78** is slidably received about the upper end of the rod **76**, the lid **60** can be raised by hand without necessitating a movement of the foot bar **72** such as might be rendered impossible under certain circumstances such as heavy snowfalls which would bury the bar **72**.

From the foregoing, it should be readily appreciated that a novel garbage can support has been defined, this garbage can support, in addition to incorporating means for specifically supporting the garbage can either in an upright position as illustrated in FIGURE 5 or in an inverted position as illustrated in FIGURE 4, also incorporating novel means for effecting an effortless raising of the lid without using the hands. Incidentally, while FIGURE 6 illustrates a manual disengaging of the latch **48**, it will of course be appreciated that this latch can be engaged and disengaged by merely a slight raising of the can **12** so as to clear the ledge lip **42** after which the lower portion of the can **12** can be swung outwardly and removed away from the latch **48**, the downward movement of the latch **48** being limited by the lower edge of the slot **52**.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

**1.** A garbage can support including an elongated support post, means maintaining the post vertically, a support ledge fixed to the post at an intermediate point thereon, said ledge being adapted to receive the lower edge of a garbage can, a latch pivotally mounted on the post adjacent the upper end thereof, means biasing the latch downwardly for retaining engagement with the upper edge of a garbage can, a lid, means pivotally mounting the lid on the post above the latch for movement in a vertical plane, a pivotally mounted foot pedal, rod means interconnecting the foot pedal and the means pivotally mounting the lid so as to effect a raising of the lid upon a depression of the foot pedal, and means for fixedly positioning the support ledge at a plurality of vertically adjusted positions, said rod means being selectively extensible and retractible so as to vary the degree of opening of the lid, said lid being vertically movable independent of the foot pedal, said means maintaining the post vertical consisting of a concrete footing within which the lower end of the post is embedded, said footing including a recess in the upper surface thereof surrounding the post for the reception of insect repelling means, said lid being adapted to engage flush on the upper edge of a garbage can, said lid including a slot for accommodating the latch as the lid is closed, said means pivotally mounting the lid consisting of a hollow housing secured to the upper surface of the lid and extending radially thereon and therebeyond so as to enclose the slot and latch and to position its outer end juxtaposed to the post.

**2.** A garbage can support including an elongated support post, means maintaining the post vertically, a support ledge fixed to the post at an intermediate point thereon, said ledge being adapted to receive the lower edge of a garbage can, a latch pivotally mounted on the post adjacent the upper end thereof, means biasing the latch downwardly for retaining engagement with the upper edge of a garbage can, a lid, means pivotally mounting the lid on the post above the latch for movement in a vertical plane, a pivotally mounted foot pedal, rod means interconnecting the foot pedal and the means pivotally mounting the lid so as to effect a raising of the lid upon a depression of the foot pedal, said lid being adapted to engage flush on the upper edge of a garbage can, said lid including a slot for accommodating the latch as the lid is closed, said means pivotally mounting the lid consisting of a hollow housing secured to the upper surface of the lid and extending radially thereon and therebeyond so as to enclose the slot and latch and to position its outer end juxtaposed to the post.

**3.** A garbage can support including an elongated vertical support post, a support member fixed to said post at an intermediate point thereon, said member being adapted to receive the lower edge of a garbage can, a latch pivotally mounted on the post above the support member for selective retaining engagement with the upper edge of a garbage can, a lid, means pivotally mounting the lid on the post above the latch for movement in a vertical plane, said lid being adapted to engage flush on the upper edge of a supported and retained garbage can, said lid including a slot for accommodating the latch as the lid is closed, said means pivotally mounting the lid comprising a hollow housing secured to the upper surface of the lid and extending radially thereon and therebeyond so as to enclose the slot and latch and to position its outer end juxtaposed to the post.

**4.** The structure of claim **3** including a pivotally mounted foot pedal, and rod means interconnecting the foot pedal and lid so as to effect a raising of the lid upon a depressing of the foot pedal, said rod means comprising an upper hollow tube portion and a lower rod portion, said tube portion telescopically and slidably receiving said rod portion, and a stop fixed to said rod portion below said tube portion and freely engageable against the lower end of the tube portion, thereby allowing a raising of the lid and tube portion independently of the rod portion.

**5.** The structure of claim **2** wherein said rod means comprises an upper hollow tube portion and a lower rod portion, said tube portion telescopically and slidably receiving said rod portion, and a stop fixed to said rod portion below said tube portion and freely engageable against the lower end of the tube portion, thereby allowing a raising of the lid and tube portion independently of the rod portion.

**6.** The structure of claim **2** wherein the means maintaining the post vertical consists of a concrete footing within which the lower end of the post is embedded, said footing including a recess in the upper surface thereof surrounding the post for the reception of insect repelling means.

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