Sept. 6, 1955 W. E. WORTH 2,717,167

CONTAINER COVER FASTENER

Filed May 29, 1953

Fig. 1

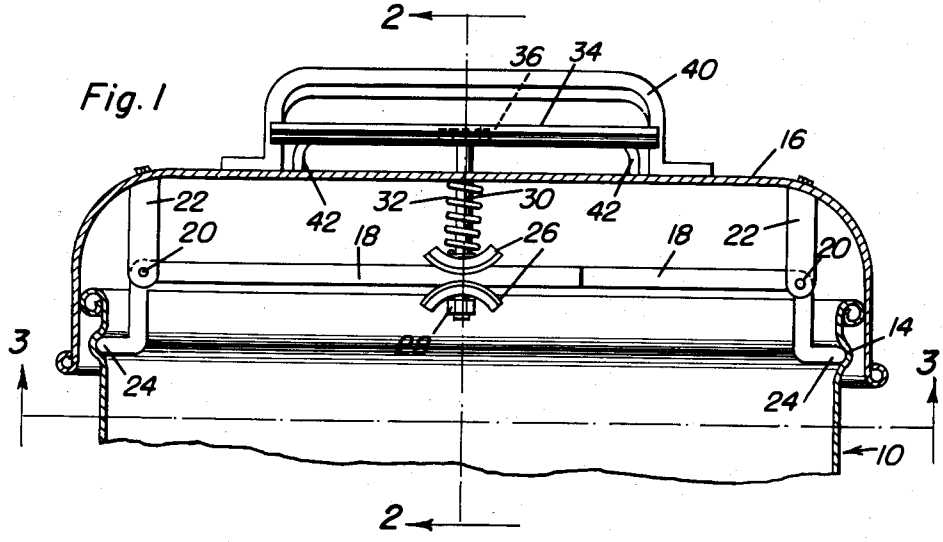
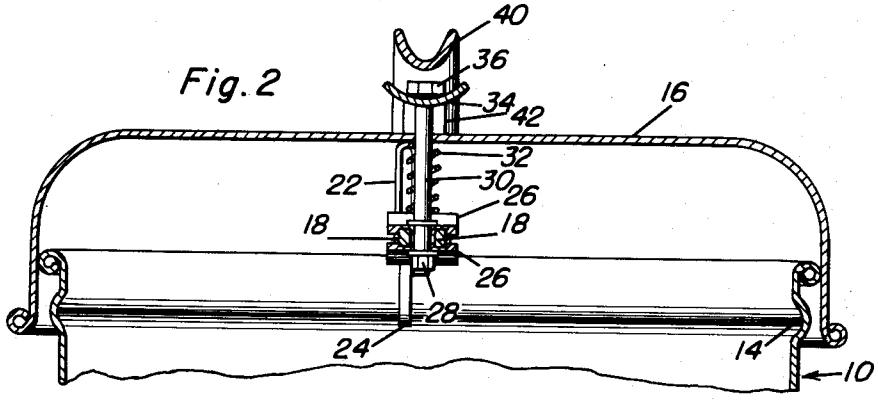


Fig. 2



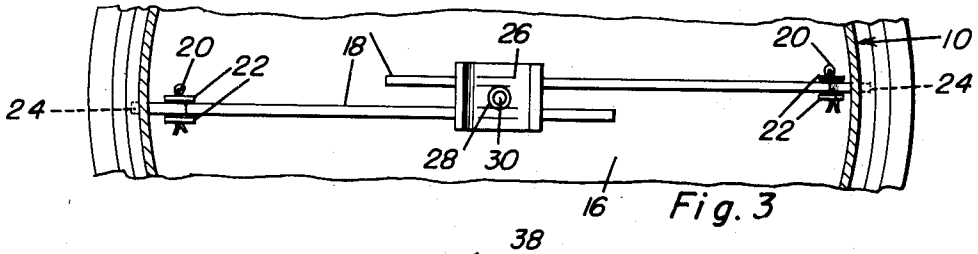
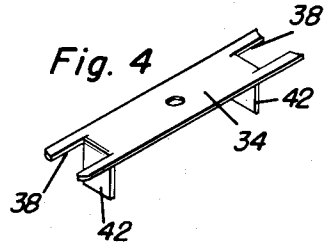


Fig. 3

Fig. 4



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CONTAINER COVER FASTENER

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2 Claims. (Cl. 292—30)

This invention relates to new and useful improvements and structural refinements in containers, particularly container covers, and the principal object of the invention is to provide a container cover with means for effectively locking the same in position on a container.

Specifically, the invention concerns itself with garbage cans which, as is well known, very often have the covers thereof accidentally or unintentionally dislodged.

Some of the advantages of the invention reside in its simplicity of construction, in its efficient and convenient operation and in its adaptability for installation on containers of various sizes and types.

With the above more important objects and features in view, and such other objects and features as may become apparent as this specification proceeds, the invention consists essentially of the arrangement and construction of parts as illustrated in the accompanying drawings, in which:

Figure 1 is a fragmentary vertical sectional view of a container and cover, illustrating the invention associated therewith;

Figure 2 is a fragmentary vertical sectional view, taken substantially in the plane of the line 2—2 in Figure 1;

Figure 3 is a horizontal sectional view, taken substantially in the plane of the line 3—3 in Figure 1, and

Figure 4 is a perspective view of the finger piece used in the invention.

Like characters of reference are employed to designate like parts in the specification and throughout the several views.

Referring now to the accompanying drawings in detail, the general reference character **10** designates a conventional container such as a garbage can, or the like, the same having an open top and including a lateral wall which is provided in the inner surface adjacent the top thereof with an annular groove **14**.

A removable cover **16** is positioned on the open top of the container **10** and the essence of novelty in the invention resides in the provision of means for locking the top in position.

These means consist of a pair of spaced parallel bellcranks or detent limbs **18** which are pivotally attached by means of suitable fulcrum pins **20** to a pair of brackets **22** suitably secured to the underside of the cover **16**, the arms or limbs **18** having outturned detent portions **24** which are receivable in diametrically opposite portions of the annular groove **14** of the container **10**.

The inner end portions of the arms or limbs **18** are seated in an actuator consisting of a pair of arcuate, opposing jaws or clamp members **26** which are mounted

by means of a nut **28** on a vertical pin or stud **30** extending through the top or cover **16**.

A compression spring **32** is provided on the pin **30** between the cover **16** and the upper of the clamp members **26**, whereby the two clamp members **26** are urged in an operative position with the inner end portions of the detent arms or limbs **18**.

The pin **30** projects upwardly and slidably through the cover **16** and is provided at the top thereof with a horizontally elongated operating bar or finger piece **34**, the same being secured on the pin **30** by a nut **36**.

The opposite end portions of the finger piece **34** are provided with notches **38** to slidably receive the side portions of an inverted U-shaped handle **40** which is secured to the top of the cover **16**.

In this manner, the handle **40** provides an effective guide for the finger piece **34** and it will be observed that the end portions of the finger piece, incident to the formation of the notches **38**, are struck out and downturned so as to afford a pair of stops **42** which are engageable with the cover **16** to limit the downward, depressing movement of the finger piece.

When the cover **16** is to be removed, the finger piece **34** is simply pulled upwardly so as to contract the spring **32**, while the actuator members **26** swing the limbs **18** so as to dislodge the detent portions **24** from the groove **14** and permit the cover to be removed.

While in the foregoing there has been shown and described the preferred embodiment of this invention, it is to be understood that minor changes in the details of construction and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

What is claimed as new is as follows:

1. A fastener for container covers having a handle, said fastener including a pair of bellcranks pivotally mounted in the cover, an operating bar slidable on the handle, means operatively connecting said bar to one end portion of the bellcranks, and detents on the other ends of the bellcranks engageable with a container for locking the cover thereon, said means including a pin suspended from the bar, said pin being slidable through the cover and extending between the bellcranks, a pair of opposed, arcuate jaws mounted on the pin with the bellcranks engaged therebetween, and a coil spring on the pin engaged with one of the jaws for yieldingly urging said bellcranks toward locking position.

2. A fastener for container covers of the type having a substantially U-shaped handle, said fastener comprising a pair of bellcranks pivotally mounted in the cover and engageable with a container for locking said cover thereon, a horizontal operating bar slidable in the handle, and means operatively connecting said bar to the bellcranks, said bar including downwardly struck stops on its end portions engageable with the cover and providing pairs of longitudinal guides slidably straddling the legs of the handle.

References Cited in the file of this patent

UNITED STATES PATENTS

1,123,331	Loeber	Jan. 5, 1915
1,451,606	Arneson	Apr. 10, 1923
1,484,062	Conner	Feb. 19, 1924
1,766,366	Welch et al.	June 24, 1930
2,153,916	Dunbar	Apr. 11, 1939