Sept. 24, 1968 J. J. BUSEY 3,402,848

REFUSE RECEPTACLE

Filed Aug. 21, 1967 2 Sheets-Sheet 1

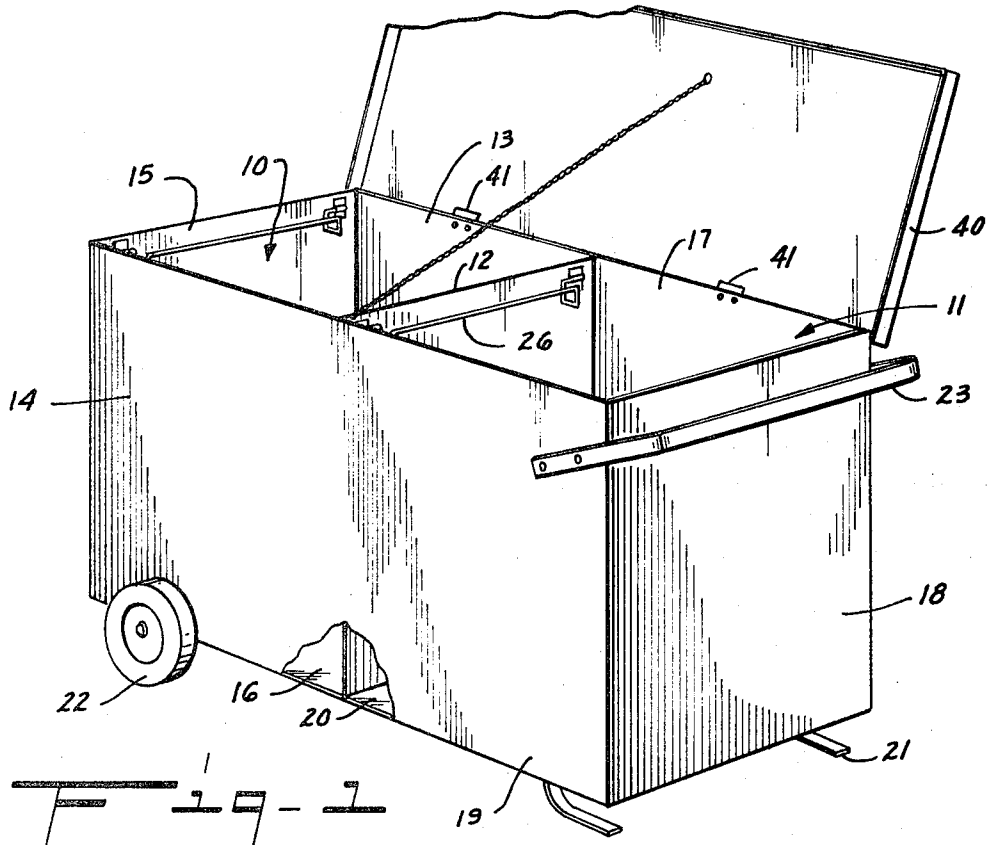


Fig. 1

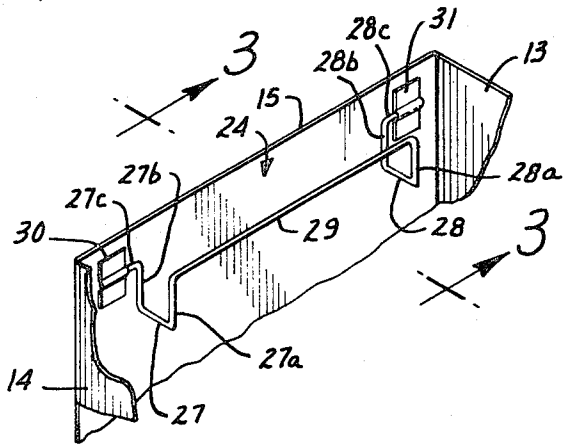


Fig. 2

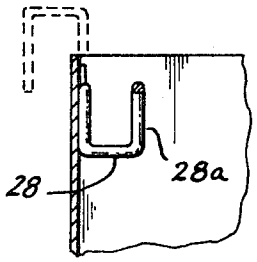


Fig. 3

JAY J. BUSEY
INVENTOR.

BY

Browning, Bennett, Uyen & Eickemeyer

ATTORNEYS

Sept. 24, 1968 J. J. BUSEY 3,402,848

REFUSE RECEPTACLE

Filed Aug. 21, 1967 2 Sheets-Sheet 2

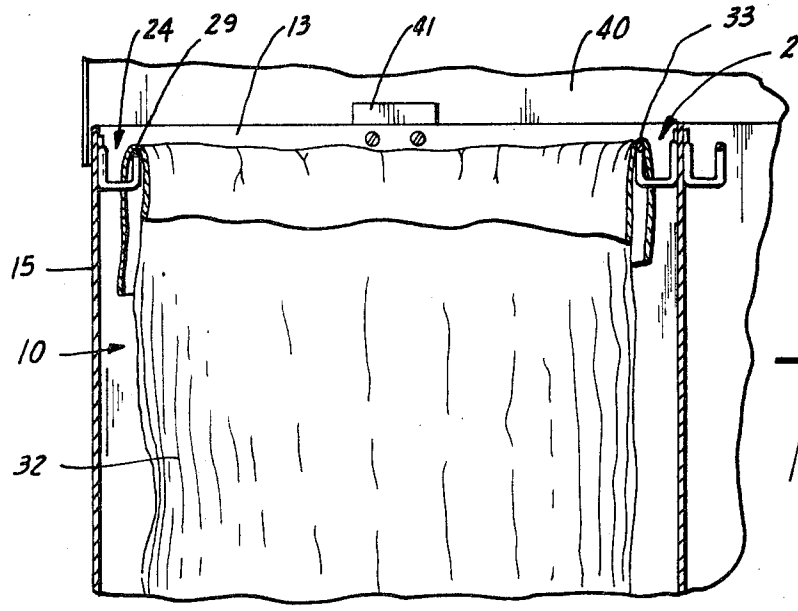


Fig. 4

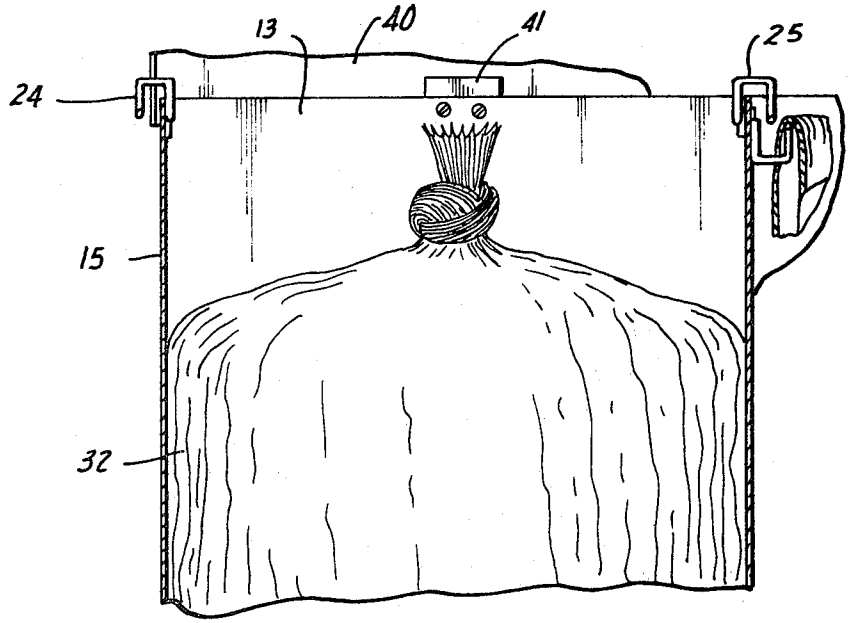


Fig. 5

JAY J. BUSEY
INVENTOR.

BY

Browning, Emmons, Hyer & Eickemeyer

ATTORNEYS

United States Patent Office 3,402,848 Patented Sept. 24, 1968

3,402,848

REFUSE RECEPTACLE

Jay J. Busey, 5926 Ridgeway Drive, Houston, Tex. 77033

Filed Aug. 21, 1967, Ser. No. 662,132
6 Claims. (Cl. 220—63)

ABSTRACT OF THE DISCLOSURE

The refuse receptacle described comprises an outer container and a disposable bag positioned in the container to receive the refuse. The container has a bottom and four vertical side walls and is generally rectangular in shape. It has an open upper end which is closed by a lid hinged to one of the side walls. A disposable bag of flexible plastic material is positioned in the container to be supported by the bottom and side walls of the container as it is filled with refuse. The bag is held open to receive the refuse by two brackets, which are attached to oppositely facing side walls of the container adjacent the open end thereof. These brackets comprise spaced U-shaped end members with an elongated rod extending between the ends of one leg of each U-shaped member. The other leg of the U-shaped members is pivotally connected to a side wall so that the rod is horizontal and parallel to the side wall. These brackets are positioned close enough to the top of the container so that as the bag is pulled upwardly from the container they will pivot and move the rod portions thereof to the outside of the container and out of the way of the bag as it is being removed. When pivoted to the inside of the container, the upper end of the bag can be draped over the rods between the rods and the side walls and the brackets will hold the bag open until it is filled. The weight of the refuse in the bag is supported by the bottom and the side walls of the bag and not by the brackets.

This invention relates to refuse receptacles that include inner liners or bags that are disposable with the refuse collected.

With the ever increasing use of disposable bottles and paper products by an ever increasing number of people, the total volume of refuse that must be handled each day by the sanitary departments of our cities and towns is growing rapidly. The refuse of industry is also growing. The cost for labor to collect and dispose of this refuse is also growing.

Therefore, there is a need for an improved refuse receptacle. One that will provide an improved storage for the refuse until it is collected and make it easier and more convenient for the collector.

It is an object of this invention to provide such an improved refuse receptacle.

It is another object of this invention to provide a refuse receptacle that employs a disposable inner liner or bag that can be quickly and easily removed from the receptacle and replaced by a new liner.

It is a further object of this invention to provide a refuse receptacle that employs a disposable inner liner that can be quickly and easily closed when full to facilitate its handling by the personnel responsible for collecting the refuse.

It is a further object of this invention to provide a refuse receptacle having a disposable inner refuse bag that employs means for holding the bag open to receive the refuse which will move out of the way as the bag is removed from the container.

These and other objects, advantages, and features of this invention will be apparent to those skilled in the art

from a consideration of this specification, attached drawings and appended claims.

The invention will now be described in detail in connection with the attached drawings in which,

FIGURE 1 is an isometric view of the preferred embodiment of two outer containers of the refuse receptacle of this invention with the top lid open preparatory to installing the disposable inner refuse bags therein;

FIGURE 2 is a fragmentary view of one of the brackets employed in the containers of FIGURE 1 to hold the bags open when they are installed in the containers;

FIGURE 3 is a cross sectional view taken along line 3—3 of FIGURE 2;

FIGURE 4 is a cross sectional view through the upper portion of one of the containers of FIGURE 1 with a liner bag installed; and

FIGURE 5 is a view, similar to FIGURE 4, showing the bag closed and ready for removal from the container after being filled with refuse.

FIGURE 1 shows how a pair of refuse receptacles constructed in accordance with this invention can be combined conveniently into one unitary structure. The two receptacles include containers **10** and **11**. Container **10** has vertical side walls **12**, **13**, **14** and **15** and bottom **16**. Container **11** is of the same shape having side walls **12**, **17**, **18**, and **19** and bottom **20**. Side walls **14** and **19**, **13** and **17**, and bottoms **16** and **20** each are formed of integral sheets of material, preferably sheet metal. These containers have common side wall **12**.

Skids **21** are attached to bottom **20** under container **11** and wheels **22**, one of which is not shown, are mounted under container **10** so that the two containers can be moved easily when desired. Handle **23** facilitates the moving of the containers on wheels **20**. Lid **40** is connected to the upper edge of sides **13** and **17** by hinges **41** to provide a cover for the receptacles to keep out rain, animals, etc.

Flexible, open ended bags are placed in the containers to line the containers and to receive the refuse deposited therein. Preferably, these bags are of a plastic material, which is waterproof, and which has sufficient strength to not tear when filled with refuse and picked up by its upper end. Also, preferably, the bags are of such a size that they rest on the bottom of the containers and are supported by the side walls thereof as they are filled with refuse.

Means are located inside each container adjacent the upper end of the side walls to project laterally from said side walls to hold the bag open to receive the refuse. In the embodiment shown, the means in each container for so holding the bags are constructed the same so only one will be described in detail.

Brackets **24** and **25** are located on oppositely facing side walls **15** and **12** of container **10** (FIGURE 4). Each bracket is identical so only one will be described in detail. Bracket **24** (FIGURE 2) includes U-shaped end members **27** and **28**. Elongated rod **29** extends between the ends of legs **27***a* and **28***a* of the U-shaped end members. The other legs of the U-shaped members are L-shaped having portions **27***b* and **28***b*, which are parallel to legs **27***a* and **28***a*, and portions **27***c* and **28***c*, which extend under straps **30** and **31**. These straps are attached to the inside of wall **15** and pivotally connect bracket **24** to the side wall so it can be pivoted between the solid line and dotted line positions shown in FIGURE 3. Thus, bracket **24** will move out of the way as a disposable bag filled with refuse is moved upwardly through the open end of the container.

Brackets **24** and **25** hold flexible bag **32** open in the manner shown in FIGURE 4. The bag is placed inside container **10** with its lower end resting on the bottom of the container. Its upper end is draped over rod **29** of

bracket 24 and rod 33 of bracket 25. The excess material is pushed down between the rods and the adjacent side walls. As the liner fills, it will be pushed out against the side walls of the container, but there is sufficient material draped over the brackets to prevent the upper end of the bag from being pulled off the brackets. Preferably, when the bag is filled, there is sufficient material remaining above the level of the refuse for the upper end of the bag to be tied in a knot, as shown in FIGURE 5. After being tied, the bag can be lifted out of the container and brackets 24 and 25 will pivot to the position shown in FIGURE 5 to permit the full bag to be removed without difficulty. The brackets can be rotated to the position shown in FIGURE 5 manually before the bag is removed or they will be pivoted to that position by the bag.

From the foregoing, it will be seen that this invention is one well adapted to attain all of the ends and objects hereinabove set forth, together with other advantages which are obvious and which are inherent to the apparatus and structure.

It will be understood that certain features and subcombinations are of utility and may be employed without reference to other features and subcombinations. This is contemplated by and is within the scope of the claims.

As many possible embodiments may be made of the invention without departing from the scope thereof, it is to be understood that all matter herein set forth or shown in the accompanying drawings is to be interpreted as illustrative and not in a limiting sense.

The invention having been described, what is claimed is:

1. A refuse receptacle comprising an outer container and a flexible, disposable bag having one open end positioned in the container to receive refuse into said open end, said container having a bottom and upwardly extending side walls to support the bag and any refuse contained therein, and means located inside the container adjacent the upper end of the side walls to project laterally from said side walls over which the portion of the bag adjacent its open end is draped to hold the bag open to receive refuse, said holding means being pivotally mounted on the side walls to pivot upwardly toward the walls and out of the way of the disposable bag as it is removed upwardly from the container.

2. The refuse receptacle of claim 1 in which said holding means includes at least two brackets oppositely mounted on the side walls of the container, said brackets comprising two spaced parallel U-shaped members and an elongated rod extending between one arm of each U-shaped member and means pivotally mounting the other arm of each U-shaped member to pivot between a first position with the arms pivotally attached extending downwardly parallel to and in engagement with the side wall and the other arms and the rod inside the container and spaced from the wall upon which the bracket is mounted to permit the bag to be draped over the rod into the space between the rod and the wall and a second position with the rod located outside the container and the arms of the end members attached to the side wall extending upwardly parallel to the side wall to permit the flexible, disposable bag to be lifted out of the container without interference from the holding means.

3. The refuse receptacle of claim 1 in which the disposable flexible bag is made of plastic.

4. A refuse receptacle comprising an outer container having a bottom, side members, and an upwardly facing opening to receive refuse into the receptacle and a flexible, disposable plastic inner bag, having one open end, positioned within the container with its open end facing upward to receive refuse placed into the container, said container having elongated horizontal rods adjacent its open end and spaced from and parallel to its side members and said bag having a length such that it rests on the bottom of the container with its upper portion draped over the elongated rods so the rods will hold the bag open to receive refuse.

5. The refuse receptacle of claim 4 in which the bag is long enough to be tied into a knot to close its upper end after it is filled substantially to the top of the container.

6. A container for a flexible, disposable refuse bag comprising a bottom and generally vertical side walls extending upwardly to support along with the bottom a flexible disposable bag positioned in the container, and a plurality of members pivotally mounted on the side walls to move between a first position where at least a portion of each member extends laterally from the side walls to permit the portion of a disposable, flexible bag, adjacent its open end, to be draped over the members to hold the bag open to receive refuse and a second position where said laterally extending portion extends over the top of the side walls and out of the way of such bag as such bag is being removed from the container.

References Cited

UNITED STATES PATENTS

3,128,904	4/1964	Reilly	220—65
3,130,853	4/1964	Colthurst et al.	220—17

THERON E. CONDON, *Primary Examiner.*

G. T. HALL, *Assistant Examiner.*