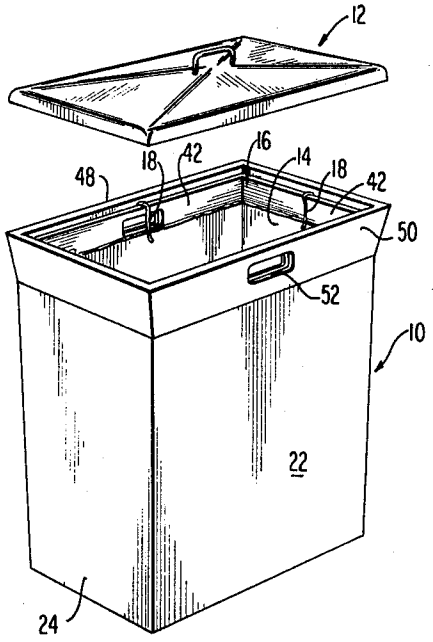
March 24, 1970 R. A. KELLEY 3,502,238

TRASH RECEPTACLE

Filed Sept. 27, 1968

FIG. 1



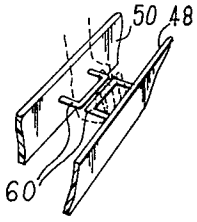


FIG. 4

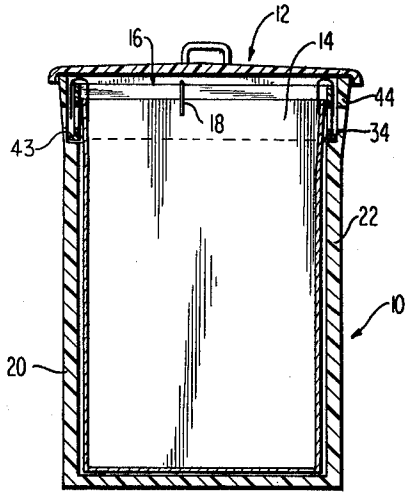


FIG. 2

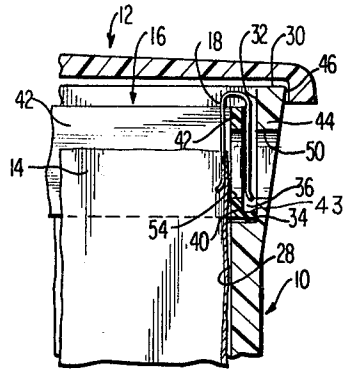


FIG. 3

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TRASH RECEPTACLE

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U.S. Cl. 220—63 5 Claims

ABSTRACT OF THE DISCLOSURE

The disposable liner bag for a trash receptacle is held in mouth-open position within the receptacle by means of an open frame to which the liner mouth is clipped. The frame is nested within the top of the receptacle to rest upon a ledge formation and is removable to leave the liner remaining in the receptacle.

BACKGROUND OF THE INVENTION

The household use of trash receptacles within which a removable bag liner is fitted has become quite commonplace inasmuch as this offers a convenient way to handle trash. Usually, however, the mouth of the bag liner is rolled back over the edge of the trash receptacle so as to maintain the liner in open position and although this is an entirely satisfactory arrangement, it does interfere with the proper positioning of the receptacle cover and, moreover, presents a somewhat unsightly appearance.

BRIEF SUMMARY OF THE INVENTION

The present invention is concerned with a trash receptacle wherein the bag liner is held in mouth-open position by means of a separate and removable frame assembly so that the frame assembly and the bag may be nested wholly within the trash receptacle to allow the cover to be positioned properly thereon. The bag mouth is clipped to the frame and the frame is of relatively great vertical height so as to allow the mouth of the bag to position itself vertically therewithin so that the bag bottom rests squarely upon the bottom wall of the receptacle.

BRIEF DESCRIPTION OF THE DRAWING FIGURES

FIG. 1 is a perspective view showing an illustrative embodiment of the present invention;

FIG. 2 is a vertical section taken through the assembly shown in FIG. 1;

FIG. 3 is an enlarged view showing a portion of the section of FIG. 2; and

FIG. 4 is a fragmentary perspective view of a further handle arrangement that permits the grasping and carrying of two receptacles by an individual in one hand.

DETAILED DESCRIPTION OF THE INVENTION

With reference at this time more particularly to FIG. 1, the reference character **10** indicates in general the trash receptacle which is provided with a removable cover indicated by the reference character **12**. For the sanitary handling of trash, the interior of the receptacle **10** is provided with a bag-like liner **14** and in order to hold the liner bag mouth in open position within the receptacle, a removable frame assembly indicated generally by the reference character **16** is provided, same having associated therewith a series of clip members **18**.

In the particular embodiment shown, the receptacle **10** is of generally rectangular configuration in cross section, having the opposite side walls **20** and **22** and end walls **24**, all joined by the bottom wall **26** to define the trash-receiving space within the interior of the receptacle. As may be seen more clearly in FIGS. 2 and 3, the inner surface **28** of the side wall portions of the receptacle adjacent the upper edge **30** thereof is outwardly stepped as

indicated by the reference character **32** to present a circumscribing ledge **34** which is adapted to receive the previously mentioned frame assembly **16**. The frame assembly is of open rectangular form corresponding in general to the cross sectional shape of the receptacle **10** but is somewhat smaller than the dimensions dictated by the stepped wall portions **32** so as to leave a gap as indicated by the reference character **36** to allow for the reception of the U-shaped clips **18** which are utilized to hold the liner bag in mouth-open position. At the same time, the illustrative embodiment of the invention will be seen to employ an interior dimension for the frame assembly **16** such that the inner surface **40** thereof effects substantially a continuation of the inner surface **28** of the receptacle body lying below the ledge **34** so as to present a generally smooth surface which does not interfere with the normal contours of the liner bag **14**. At the lower portion of the frame **16**, there is an outwardly directed flange **43** formed thereabout that prevents lateral shifting of the frame **16** as it rests on the ledge **34**.

The frame assembly **16** may simply take the form of a rectangular integral construction fabricated from synthetic resinous material, or the like, and it is preferred that the individual limbs **42** forming the frame be of substantial vertical width or height and that the clips **18** be correspondingly elongate so as to allow the liner **14** to drift vertically and thereby to accommodate itself to the contour required while still retaining a clipping action by the members **18**. In this way, the bottom of liner **14** will always rest upon the bottom wall **26** with a wide range of liner sizes, and the capacity of the trash receptacle may be increased considerably over and above the capacity of the liner.

The upper rim portion **44** of the receptacle **10** above the ledge formation **34** is flared outwardly slightly to accommodate for the reduced wall thickness effected by the ledge formation **34** and also to provide an inwardly beveled upper edge so that the cover member **12** may be snap fitted over this edge as indicated by the reference character **46** in FIG. 3.

Opposite sides **48** and **50** of the rim formation may be provided with hand hole openings **52** and the corresponding limbs **42** of the frame assembly are provided with registering hand hole openings **54** so that a secure grip may be obtained on the receptacle assembly when desired.

A further form of handle arrangement is shown in FIG. 4 wherein the handles **60** are positioned exteriorly of the opposite sides **48** and **50** and are of such size to permit an individual to readily grasp and carry two such receptacles **10** when positioned in side by side arrangement as shown in FIG. 4.

In use, the liner **14** may be lowered into the receptacle **10**, with the frame assembly **16** resting upon the ledge formation **34**. The proper height of the liner **14** is then determined with its bottom flush against the bottom of receptacle **10**. The upper portion of the liner **14** may be readily clipped to frame **16**. During subsequent filling of the liner **14**, it may readily shift at its mouth in a vertical direction to accommodate for the internal contours of the receptacle, this action being allowed for the clip elements **38** which only lightly engage the bag mouth but do so with sufficient force to retain the same in open position. Bags in general use today vary in height and opening size but by the use of the frame and clip arrangement such variation in sizes do not prevent their use as a bag having a smaller opening than the frame may be clipped to only three sides of the frame and still be effective. The function of the clamps is to hold the mouth of the bag open and to provide support for the bag or liner **14** vertically. When full, or when it is desired to place the trash for collection, the cover

12 may be removed whereafter the cover 12 may be replaced and the entire assembly less the frame and clips placed for trash collection.

It will be understood by those skilled in the art that modifications and changes may be made and the use of equivalents may be resorted to without departing from the spirit or scope of my invention.

I claim:

1. A trash receptacle comprising, in combination:

a substantially rigid container having upstanding side wall portions and a bottom, the inner surfaces of said side wall portions adjacent the upper edge of the container being outwardly stepped to define a ledge,

a substantially rigid frame removably supported on said ledge,

clip means for removably securing the open top of a bag-like liner within the confines of said frame,

and a cover for said container.

2. The trash receptacle according to claim 1 wherein the upper wall portion of said container above said ledge is exteriorly tapered outwardly to present a sharp outer edge for engagement with said cover.

3. The trash receptacle according to claim 1 wherein said frame is of closed form dimensioned to provide an inner surface effecting a smooth continuation of the inner surface of the container below said ledge.

4. The trash receptacle according to claim 3 wherein said frame is comprised of side portions of substantial height, said clip means comprising a plurality of U-shaped clips of a length substantially equal to the height of said frame.

5. The trash receptacle according to claim 4 wherein said frame is of exterior dimensions slightly smaller than the interior dimensions of said container above said ledge to provide a gap between said frame and said container for receiving said clips.

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