March 14, 1967 N. ROSENBERG ETAL 3,309,007

WASTE RECEPTACLE

Filed Oct. 4, 1965

Fig. 1

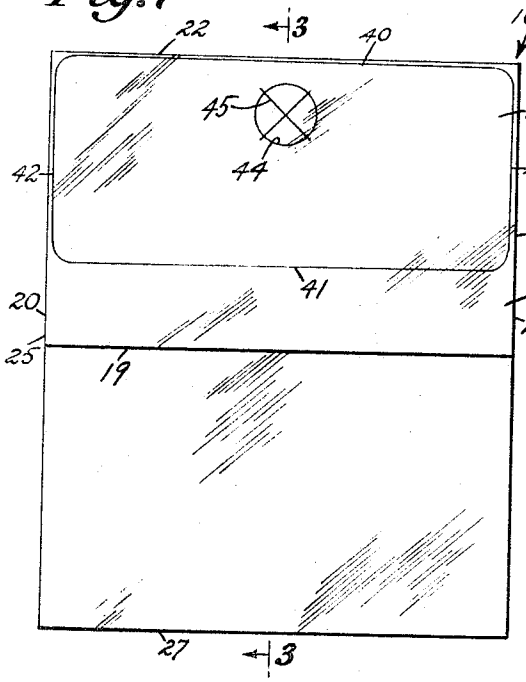



Fig. 2

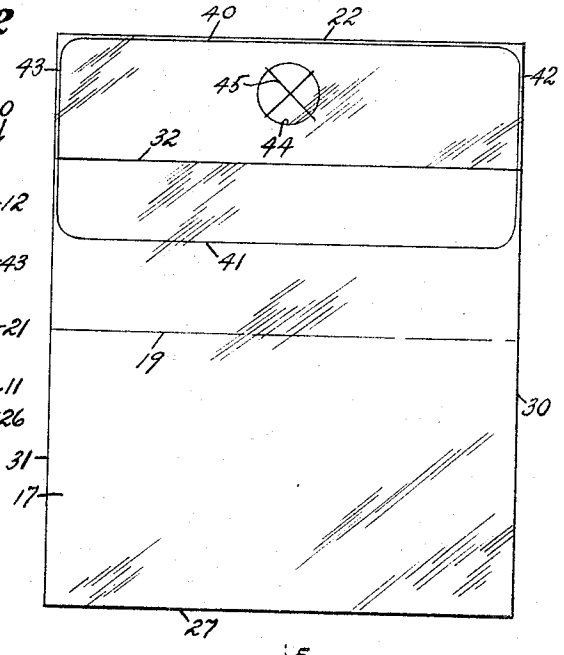



Fig. 4

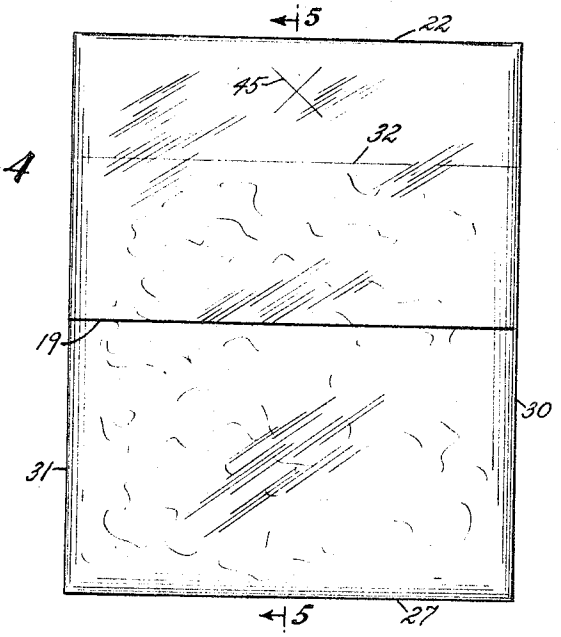



Fig. 3

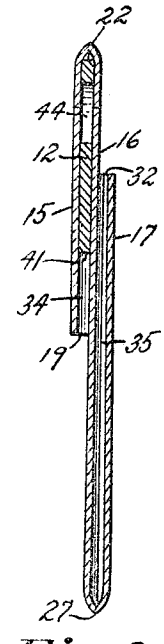



Fig. 5

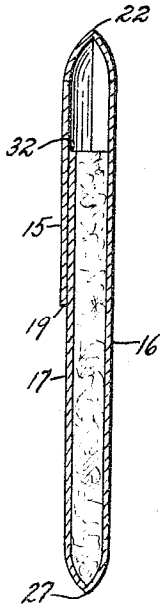



Fig. 7

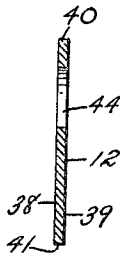
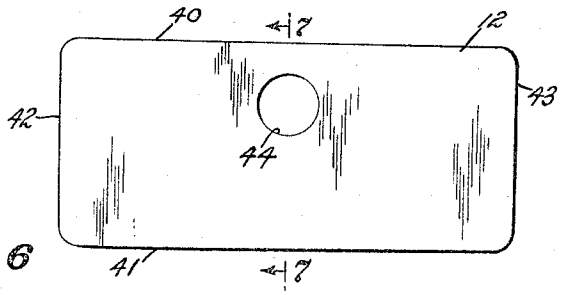



Fig. 6



United States Patent Office 3,309,007 Patented Mar. 14, 1967



3,309,007

# WASTE RECEPTACLE

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1 Claim. (Cl. 229—55)

This invention relates generally to the field of disposable waste receptacles, and more particularly to an improved form suited for use in an automobile or other vehicle, which may be closed after the same is filled, thereby permitting both the receptacle and its contents to be thrown away. Devices of this type are generally known in the art, and the invention lies in the specific constructional detail which permits an otherwise limp plastic container to be maintained in semi-rigid condition, whereby the opening thereof is readily accessible at all times and the capacity of the same maintained at a maximum.

It is among the principal objects of the present invention to provide an improved waste receptacle in which the disposable portions thereof are formed from a single sheet of relatively inexpensive synthetic resinous material, thereby permitting complete expendability after a single use.

Another object of the invention lies in the provision of an improved waste receptacle of the class described in which the cost of fabrication may be of a very low order, with consequent wide sale, distribution, and use.

Yet another object of the invention lies in the provision of a relatively limp, flexible, disposable waste receptacle having means for accommodating a stiffening member which maintains the opening of the bag in proper condition to readily receive waste and refuse, the stiffening element being removable to permit reuse.

Still another object of the invention lies in the provision of an improved waste receptacle of the class described which may be conveniently suspended from any of a number of knobs or buttons normally available on the instrument panel of a vehicle.

A feature of the invention lies in the convenience with which a filled receptacle may be replaced with an empty one.

Another feature of the invention lies in the provision of a stiffening member which may display advertising text through a transparent wall in the disposable part of the device.

These objects and features, as well as other incidental ends and advantages, will more fully appear in the progress of the following disclosure, and be pointed out in the appended claim.

In the drawing, to which reference will be made to the specification, similar reference characters have been employed to designate corresponding parts throughout the several views.

FIGURE 1 is a view in elevation of an embodiment of the invention.

FIGURE 2 is a second side elevational view thereof, showing the side opposite that seen in FIGURE 1.

FIGURE 3 is a vertical sectional view as seen from the plane 3—3 in FIGURE 1.

FIGURE 4 is a side elevational view thereof, showing certain of the component parts in altered relative condition.

FIGURE 5 is a vertical sectional view as seen from the plane 5—5 in FIGURE 4.

FIGURE 6 is a view in elevation showing a stiffening member which comprises a part of the embodiment.

FIGURE 7 is a sectional view as seen from the plane 7—7 in FIGURE 6.

In accordance with the invention, the device generally indicated by reference character **10**, comprises broadly: a bag element **11** and a supporting and stiffening member **12**.



The bag element **11** is preferably formed from a single sheet of suitable synthetic resinous material, such as thin polyethylene, rubber hydrochloride, or similar materials, which is folded to generally S-shaped cross section to include an upper panel **15**, a medial panel **16**, and a lower panel **17**.

The upper panel **15** is bounded by a lower free edge **19**, side edges **20** and **21** which are heat-sealed through the panel **16**, and an upper fold edge **22**.

The medial panel **16** is bounded by side heat-sealed edges **25** and **26**, the above-mentioned upper fold edge **22**, and a lower fold edge **27** leading to the lower panel **17**.

The lower panel **17** is somewhat larger in area than the upper panel **15**, and is bounded by side heat-sealed edges **30** and **31**, and an upper free edge **32**.

Referring to FIGURE 3, the interconnection of the side edges of each of the three panels **15**, **16** and **17** results in the formation of an upper downwardly opening pocket **34**, and a lower upwardly opening pocket **35**, the former accommodating the supporting and stiffening element **12**, the latter forming a larger chamber for the retention of waste material. The supporting and stiffening member **12** corresponds substantially in dimensions to the interior of the upper pocket **34**, being bounded by first and second planar surfaces **38** and **39**, respectively, an upper edge **40**, a lower edge **41**, and side edges **42** and **43**. A generally circular opening **44** extends through the body of the member **12** and is substantially centrally located.

Aligned openings are formed in the upper and medial panels **15** and **16** by making angularly disposed cuts **45** through the body of the material, or a punched opening (not shown) may be made with configuration and locations corresponding to the opening **44**. The aligned openings permit the assembled device **10** to be suspended from a dashboard knob (not shown) in the vehicle within which the device is used, whereby the same may be conveniently located for receiving waste.

When the device has been filled, it may be detached from the above-mentioned knob, following which the stiffening member **12** is removed from the pocket **34** and the pocket subsequently turned inside-out to overlie the upper free edge **32**, as seen in FIGURES 4 and 5, thereby completely enclosing the lower pocket **35**. In this condition, the bag element **11** may be conveniently handled without fear of loss of the contents, and discarded at a suitable time and place. The stiffening member may be reinserted into a fresh bag element **11**, and the reassembled device again mounted within the vehicle. Where desired, either or both of the surfaces **38** and **39** of the stiffening member **12** may be imprinted with a suitable advertising legend, whereby reuse of the stiffening element will constantly keep the advertising message before the user.

We wish it to be understood that we do not consider the invention limited to the precise details of structure shown and set forth in this specification, for obvious modifications will occur to those skilled in the art to which the invention pertains.

We claim:

A synthetic resinous discardable waste disposal device comprising: a bag element and a stiffening and supporting member; said bag element including a first panel of generally rectangular configuration, a second panel foldably connected with said first panel at one edge thereof, and heat sealed along two edges thereof to said first panel to form a first open pocket therebetween; and a third panel hingedly connected with second panel and heat

sealed at two edges thereof to form a second open pocket therewith; said first and second pockets being disposed in mutually opposite directions on either side of said second panel, said stiffening member being of fibrous planar material, of rigidity greater than the material forming said bag element, and selectively insertable into one of said open pockets; there being aligned through openings in said inserted stiffening member and pocket, whereby said device may be hung upon a supporting member penetrating said opening, said stiffening member distributing the resultant stress to the foldably connected edge bounding the pocket into which said supporting member has been inserted; said first and second pockets being disposed in partially non-overlying relation, there being



aligned through openings in said inserted stiffening member and the pocket into which it is inserted, whereby said device may be hung on a supporting member penetrating said openings.

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