United States Patent [19]

Barnett

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[54] **BAG DISPENSER**

[75] Inventor: **Karl F. Barnett**, Bloomfield Hills, Mich.

[73] Assignee: **Cadillac Products, Inc.**, Warren, Mich.

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[52] **U.S. Cl.**.....**206/47 R**, 24/30.5 T, 206/DIG. 8, 206/58, 242/55.53

[51] **Int. Cl.** **B65d 79/00**

[58] **Field of Search** .206/47 R, 58, 59 F, 59 R, 57 A, 206/56 AB, DIG. 8; 242/68, 55.53, 55.2; 229/69; 24/30.5 T

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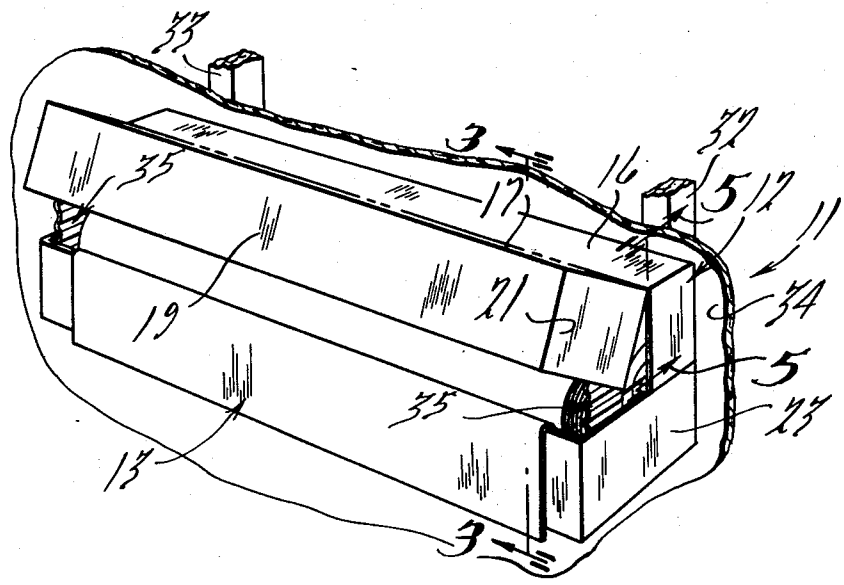
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Primary Examiner—Joseph R. Leclair
Assistant Examiner—Stephen P. Garbe
Attorney—Harness, Dickey & Pierce

[57] **ABSTRACT**

A combined package and dispenser for rolled goods such as plastic bags. A roll of goods is enclosed within a container and the container has die cut openings on one face to pass the heads of nails driven into a wall for supporting the container upon the wall. The bags or other goods may be drawn through an opening in the container. A pair of combined end plates and roll supports are positioned in the container at opposite ends of the roll. These end plates reinforce the ends of the container, rotatably support the roll and determine a fixed axis of rotation for the roll.

2 Claims, 5 Drawing Figures



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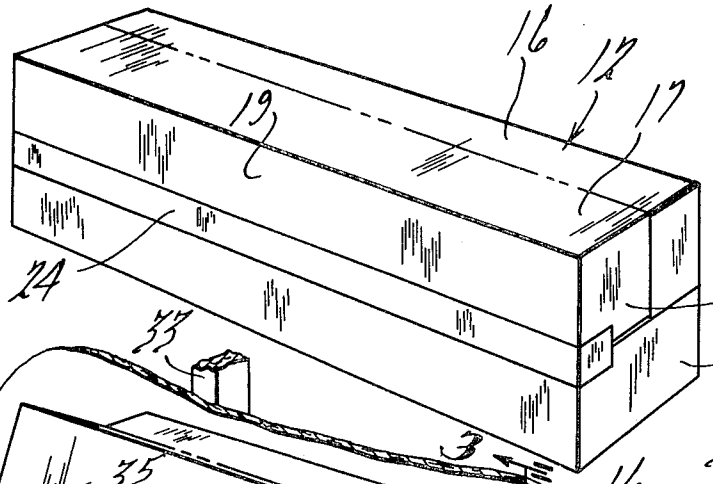


FIG. 1.

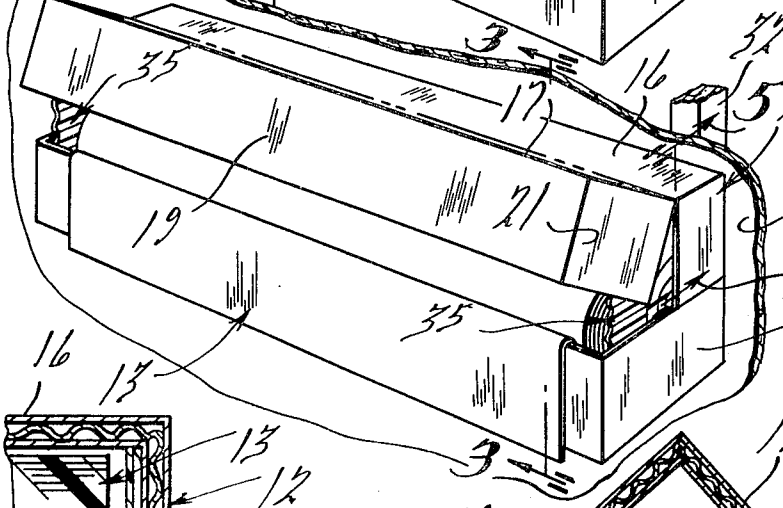


FIG. 2.

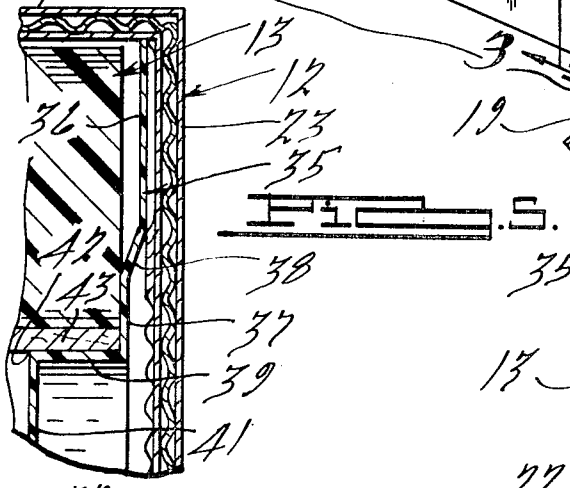


FIG. 5.

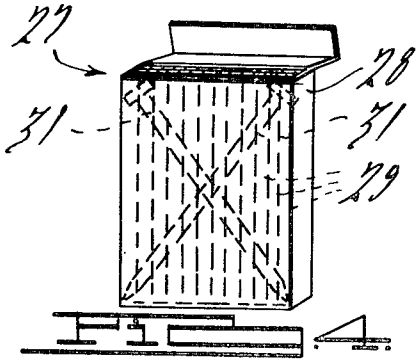


FIG. 4.

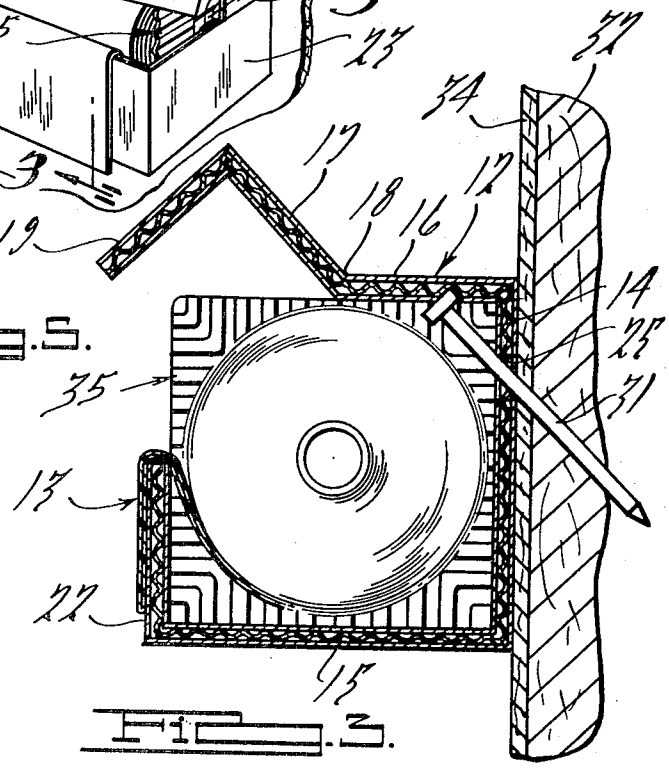


FIG. 3.

INVENTOR.
Karl F. Barnett
BY Johnson, Dickey & Pierce
ATTORNEYS.

BAG DISPENSER

BACKGROUND OF THE INVENTION

This invention relates to a bag dispenser and more particularly to an improved dispensing container that may be wall supported.

A wide variety of goods are sold in roll form with individual elements being separable from the roll. A typical example of such goods is the plastic bags widely used for garbage can liners and the like that are sold in roll form. These rolls of bags may be contained within a package that also serves as a dispenser. Due to the size of the bags, it is somewhat awkward to withdraw them from the container while the container is being held in one hand.

It is, therefore, a principal object of this invention to provide an improved dispensing package.

It is another object of this invention to provide a dispensing package that may be convenient and easily supported on a wall.

As the roll is used, its diameter decreases. Unless some structure is provided for holding the axis of rotation of the roll in a fixed point, there is a possibility of the entire roll jumping out of the dispensing opening as the roll is being used. Although various arrangements have been provided for determining a fixed axis of rotation for such rolled dispensers, the arrangements heretofore proposed are expensive and have other defects.

It is, therefore, a further object of this invention to provide an improved end plate and roll support for a dispensing package.

SUMMARY OF THE INVENTION

This invention is adapted to be embodied in a package for dispensing bags or the like. The package comprises a roll of bags connected to each other in top to bottom relationship and scored adjacent their junctures for facilitating the separation of bags from the roll. A container includes the roll of bags and defines an opening through which the free end of the roll may extend for withdrawal of bags from the container. The container has at least one side adapted to engage a supporting wall and at least one score area in the one side that defines a portion which may be knocked out to define an opening to pass a nail or the like for supporting the package on the wall.

A further feature of this invention is adapted to be embodied in a combined end plate and roll support for a package of the type described in the preceding paragraph. Such a combined end plate and roll support including a first, relatively rigid portion that is adapted to be juxtaposed to one end of the container and a spool portion that is adapted to extend into one end of the roll for rotatably supporting the roll.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of a package embodying this invention.

FIG. 2 is a perspective view of the package shown in FIG. 1 as mounted upon a wall and opened for dispensing its contents.

FIG. 3 is an enlarged cross-sectional view taken along the line 3—3 of FIG. 2.

FIG. 4 is a perspective view showing a package of ties.

FIG. 5 is an enlarged cross-sectional view taken along the line 5—5 of FIG. 2.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

A package embodying this invention is identified generally by the reference numeral **11** and is comprised of a container **12** and a roll of goods **13**. In the illustrated embodiment, the roll of goods **13** is comprised of a plurality of plastic bags connected to each other in top to bottom relationship and scored adjacent their junctures for facilitating separation of individual bags from their roll **13**.

The container **12** is formed from corrugated paper or the like and has a generally rectangular configuration. The container **12** includes a generally planar back wall **14** and a planar bottom wall **15**. The top wall of the container has two sections **16** and **17** that are joined together with a scored or weakened area **18** formed adjacent their juncture. The section **16** is connected to the rear wall **14** and the section **17** is connected to a section **19** that forms a portion of a front wall when the container **12** is closed. Generally square end walls **21** are connected to the opposite ends of the sections **17** and **19**.

The front wall of the container **12** is completed by a section **22** that is connected to the bottom wall **15**. The end walls of the container **12** are completed by generally L-shaped sections **23**.

It should be readily apparent that the container **12** will form a complete closure for the roll **13** when the top wall sections **16** and **17** are coplanar and when the front wall sections **19, 21** are coplanar. A strip of tape, or the like, **24** (FIG. 1) may be positioned over the juncture between the front walls sections **19** and **22** and along the portion of the end walls for protection and customer insurance.

The rear wall **14** of the container **12** is provided with circular scores **25** that provide sections adjacent the juncture of the rear wall **14** with the top wall section **16** that may be conveniently punched out. Preferably two such scored areas **25** are provided and these areas are spaced from each other a distance equal to the conventional stud spacing in building construction or a multiple of it (e.g. **16''**, **32''**, **48''**, etc.).

Enclosed within the container **12** is a package, indicated generally by the reference numeral **27** (FIG. 4). The package **27** is comprised of an easily opened plastic bag **28** in which a plurality of plastic bag ties **29** of any known type are enclosed. In addition to the ties **29**, the package **27** may include mounting instructions for use and, if desired, a pair of nails **31**.

In order to use the package **11**, the tape **24** is opened and the hinged lid provided for by the sections **17, 19** and **21** is swung about the pivot point defined by the scored area **18**. One end of the roll of bags **13** may then be grasped and drawn outwardly through the resulted opening. At the same time, the package **27** can be removed. If the package **27** is provided with the nails **31**, these nails are driven into the studs **32** and **33** of a wall **34** (FIG. 2). If nails have not been provided, the home-owner may supply them. The nails **31** are driven into the wall at a relatively steep angle as clearly shown in FIG. 3. The spacing between the nails **31** should be the same as between the scored openings **25**. The package **11** is then supported on the nails **31** by moving

it toward the wall **34** and downwardly after the nail heads have been aligned with the scored openings **25**. The material in the openings **25** will then be knocked out and the nails **31** will engage the underside of the top wall section **16**. The container **12** and enclosed roll **13** will then be rigidly supported on the wall **34** for convenient removal of the bags from the roll. The package **27** containing the ties **29** may be left handily on top of the top wall section **16**.

It should be readily apparent that as the bags are withdrawn from the roll **13** the roll will diminish in diameter. As the roll becomes smaller, there is a likelihood of its bouncing or jumping as the bags are withdrawn. The bags may become damaged due to contact with the heads of the nails **31** or the entire remaining roll may jump through the dispensing opening. In order to positively define a fixed axis of rotation for the roll **13** and in order to strengthen the container **12**, a pair of combined end plates and roll supports **35** is provided. The members **35** are preferably formed from a vacuum formed sheet of polyethylene or some other material that has a low coefficient of friction. The members **35** each have a first generally planar portion **36** that has a configuration complementary to the ends of the container **12**. So that the member **35** may be formed from a thin gauge, the portions **36** are corrugated as clearly shown in FIG. **3** to provide reinforcing.

Spaced from the portion **36** is a generally planar portion of annular shaped **37** that is connected to the portion **36** by a truncated conical portion **38**. The conical portion **38** spaces the portion **37** axially inwardly from the portion **36**. At the center of the portion **37**, a generally cylindrical portion **39** is formed that is closed by an integral end wall **41**. The portion **39** is adapted to extend into a central opening **42** in a stiffening tube **43** onto which the bags **13** are wound.

Since the portions **36** of the members **35** are trapped within the ends of the container **12** the portions **39** will define a fixed rotational axis for the roll **13**. The spacing of the portion **37** from the portion **36** will space the ragged ends of the bags of the roll **13** away from the ends of the container and will facilitate withdrawal of the bags from the roll. Also, the portion **39** may be slightly tapered so as to provide a minimum area of contact with the stiffening tube **43**. This will further reduce the friction against withdrawal of the bags.

Since the members **35** are separate from the container **12** a lighter weight construction may be used for the container. The portions **39** have sufficient axial length to preclude disengagement from the roll **13** should the end wall **23** of the container **12** deflect. Since a fixed axis is defined for the roll **13** by the members **35**, injury to the bags from the heads of the nails **31** will be precluded as will jumping of the roll **13** from within the container **12**.

It is to be understood that the foregoing description is that of a preferred embodiment of the invention. Various changes and modifications may be made without departing from the spirit and scope of the invention as defined by the appended claims.

I claim:

1. A dispensing package comprising a roll of bags connected to each other in top to bottom relationship and scored at their junctures for facilitating the separation of bags from said roll, and a container enclosing said roll of bags, said container having a rectangular cross sectional configuration in planes perpendicular to the ends of said roll, said container defining an opening extending longitudinally to the axis of the roll through which the free end of said roll may be withdrawn for withdrawing bags from said container, the rectangular cross sectional configuration of said container being defined in part by one side adapted to engage a supporting wall or the like, means within said container for supporting said roll of bags for rotation about a predetermined axis upon withdrawal of bags from said container through said container opening, the space between the outer periphery of said roll of bags before a bag has been detached and said one side of said container defining a free space and at least one scored area in said one side contiguous to the juncture of said one side with another of the container sides, said scored area defining a portion which may be knocked out to define an opening which will allow the passage of a nail or the like into said free space for supporting said package upon a supporting wall without damage to the roll of bags when withdrawn through said container opening.

2. A package as set forth in claim **1** in which the other of said container sides is adapted to receive a head of the nail passed through the opening for assisting in support of the container upon the wall.

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