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W. M. GRANT

2,482,848

WHEELED CARRIER

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Fig. 1.

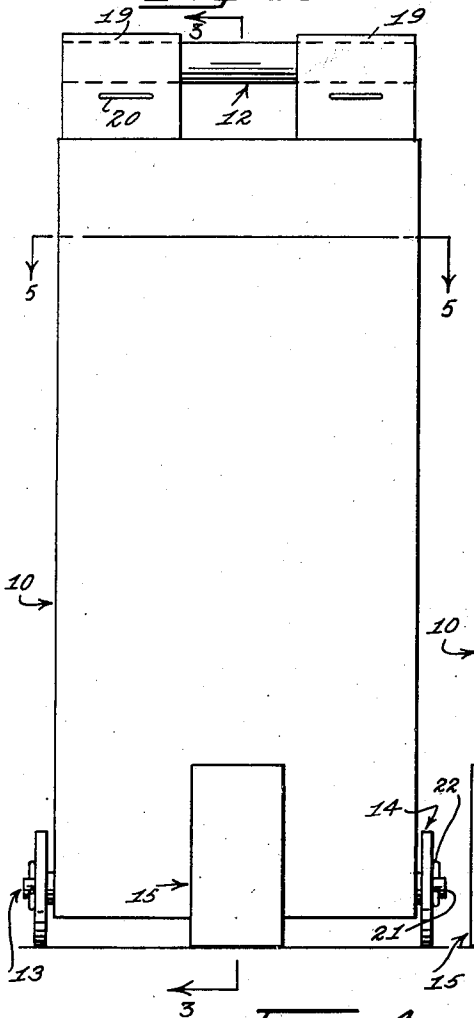


Fig. 2.

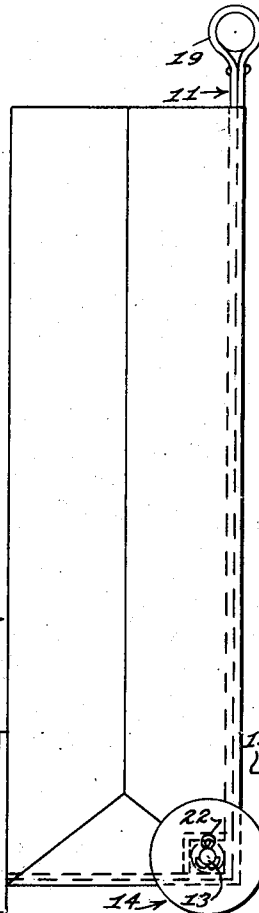


Fig. 3.

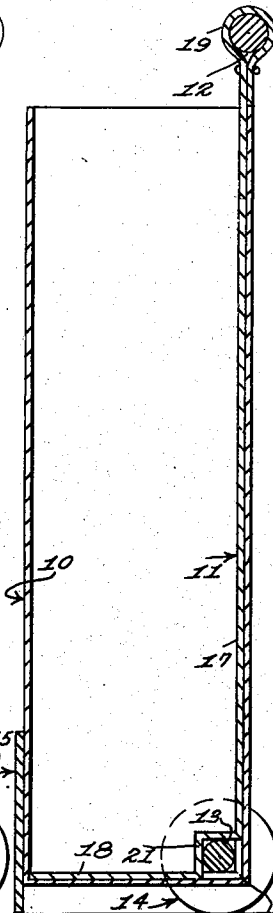


Fig. 4.

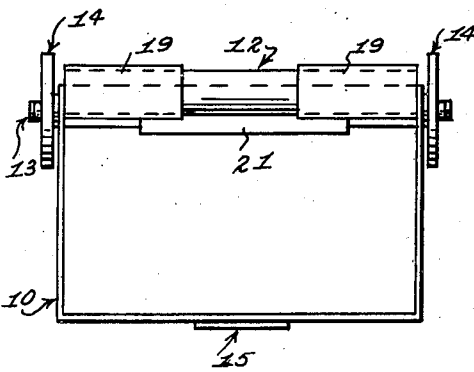
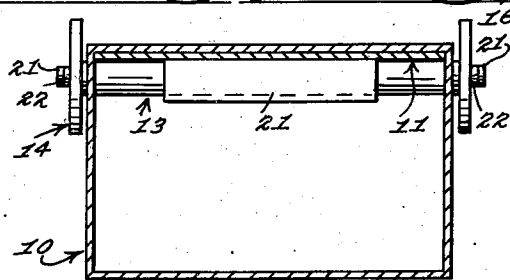


Fig. 5.

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WHEELED CARRIER

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4 Claims. (Cl. 280—51)

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This invention relates to wheeled carriers, and more particularly to a device for converting a large sized paper bag into a wheeled carrier for transporting groceries or other material.

It is among the objects of the invention to provide an improved device which can be quickly and easily assembled with a conventional paper bag to provide a wheel or roller-supported container for transporting such objects as groceries, which device is so inexpensive as to be substantially expendable, is sufficiently strong and durable to support a heavy weight and facilitate the transportation of such weight over a long distance, and which is neat and attractive in appearance, and extremely easy to use.

Other objects and advantages will become apparent from a consideration of the following description and the appended claims in conjunction with the accompanying drawing, wherein:

Figure 1 is a front elevation of a wheeled carrier illustrative of the invention;

Figure 2 is a side elevation of the carrier illustrated in Figure 1;

Figure 3 is a longitudinal, medial cross-section taken substantially on the line 3—3 of Figure 1;

Figure 4 is a top plan view of the carrier; and

Figure 5 is a transverse cross-section on the line 5—5 of Figure 1.

With continued reference to the drawing, the improved carrier comprises, in general, a conventional paper bag 10, preferably of large size, an insert 11 preferably formed of an elongated, rectangular piece of substantially rigid sheet material, such as heavy cardboard, a handle 12, an axle 13, a pair of wheels 14, and a supporting foot 15.

As the paper bag 10 is of conventional construction, a detailed description thereof is considered unnecessary for the purposes of the present disclosure.

The insert 11 is transversely bent intermediate its length, as indicated at 16, to provide a back 17 of substantially the same width as the bag 10, and somewhat longer than the bag, and a bottom 18 having a shape and area substantially the same as the shape and area of the bottom of the bag. At its end, opposite the bottom 18, the back 11 is folded over and centrally recessed to provide a pair of spaced-apart lugs 19, the opposite sides of which are secured together by suitable means, such as the wire stitches or clips 20. A cylindrical rod, conveniently formed of wood or other suitable material, having a length substantially equal to the width of the back 17 is inserted through the lugs 19 to constitute the

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handle 12, the portion of the rod between the lugs 19 being exposed to provide a hand grip, as is clearly illustrated in Figure 1.

Overlapping the bend 16, the insert 11 is provided with a pair of substantially parallel, spaced-apart slots which separate from the remainder of the insert a centrally-disposed portion. This portion is bent outwardly opposite the bend 16 to provide a loop 21 to receive the axle 13. A cylindrical rod of wood or other suitable material having a length somewhat greater than the width of the back 17 is forced through the opposite side walls of the bag and through the loop 21 to constitute the axle 13, and this rod has diametrically reduced end portions 22 to receive the wheels 14.

The wheels 14 are preferably provided as centrally apertured discs of suitable material, such as wood, paper or synthetic resin plastic, and are secured on the corresponding reduced end portions 22 of the axle 13 by respective cotter keys or other convenient devices 23, which extend through transverse apertures provided in the end portions 22 of the axle at the outer sides of the wheels 14.

The supporting foot 15 is a rectangular piece of sheet material, such as heavy cardboard, materially smaller than the insert 11, and this supporting foot is attached exteriorly to the side of the bag 10 opposite the side in contact with the back 17 of the insert. The supporting foot may be attached to the bag by any convenient means, as by having one side of the foot coated with a non-hardening glue or cement, the outer surface of which may be protected by a removable cover and by removing said cover and pressing the surface of the bag firmly into contact with the cement-containing area of the foot. The supporting foot is applied to the bag so that its lower end extends below the bottom of the bag a distance substantially equal to the radius of the wheels 14, whereby the carrier will be supported in a substantially upright condition.

All of the components of the improved carrier are extremely simple in construction, and are made of inexpensive material, such as paper or wood, so that the entire assembly can be sold at a very low cost, it being contemplated that the entire assembly will be sold for a sum not exceeding 25-cents. With this extremely low cost, a carrier assembly can be purchased, if it is found that a quantity of groceries or other merchandise purchased, will be inconvenient to carry, and after the merchandise has been transported to the desired destination, the entire carrier assembly can be discarded. The structure of the

carrier is sufficiently durable, however, that it can be used repeatedly, if so desired.

The invention may be embodied in other specific forms without departing from the spirit or essential characteristics thereof. The present embodiment is, therefore, to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description, and all changes which come within the meaning and range of equivalency of the claims are, therefore, intended to be embraced therein.

What is claimed is:

1. A wheeled carrier comprising a paper bag, a rectangular sheet of substantially rigid material inserted into said bag and including a back disposed along one side bag and a bottom extending perpendicularly from one end of said back to overlie the bottom of said bag, said sheet having a folded-over, intermediately-recessed portion at the end of said back opposite said bottom to provide handle-receiving lugs and a pair of longitudinally-extending, spaced-apart slots at the juncture of said back and said bottom to provide an axle-receiving loop, a rod inserted through said lugs to constitute a handle, a rod inserted through said loop and the opposite sides of said bag to constitute an axle, wheels journaled one on each end of said axle, and a rectangular piece of sheet material secured exteriorly to the side of said bag opposite said back to provide a supporting foot for said carrier.

2. A wheeled carrier comprising a paper bag, a rectangular piece of substantially rigid sheet material transversely folded intermediate its length to provide a back and bottom structure and inserted into said bag, a handle secured to the end of said back opposite said bottom, an axle secured to said insert at the juncture of said back and said bottom and extending outwardly of the opposite side of said bag, wheels journaled one on each end of said axle, and a supporting

foot secured exteriorly to the side of said bag opposite said back and extending below said bottom to support said carrier in substantially upright position.

3. A wheeled carrier comprising a paper bag, a rectangular piece of substantially rigid sheet material, transversely folded intermediate its ends to provide a back and bottom structure and inserted into said bag, a handle secured to the end of said back opposite said bottom, an axle secured to said piece of material at the juncture of said back and said bottom and extending outwardly of the opposite sides of said bag, and wheels journaled one on each end of said axle.

4. A wheeled carrier comprising a paper bag, a rectangular piece of substantially rigid sheet material, transversely folded intermediate its ends to provide a back and bottom structure and inserted into said bag, a handle secured to the end of said back opposite said bottom, an axle secured to said piece of material at the juncture of said back and said bottom and extending outwardly of the opposite sides of said bag, and wheels journaled one on each end of said axle, said piece of material having a pair of substantially parallel, spaced-apart slots therein extending longitudinally at opposite sides of the juncture of said back and said bottom and a portion of said piece of material between said slot being bent oppositely to the fold in said material to provide an axle-receiving loop.

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