Sept. 19, 1944. F. C. McKINLEY 2,358,523

BOTTLE PACKAGE

Filed Sept. 21, 1942

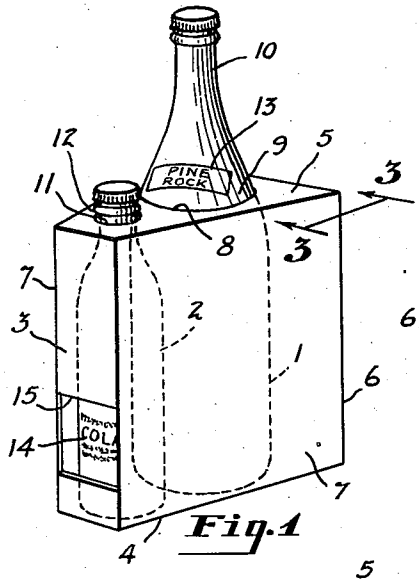


Fig. 1

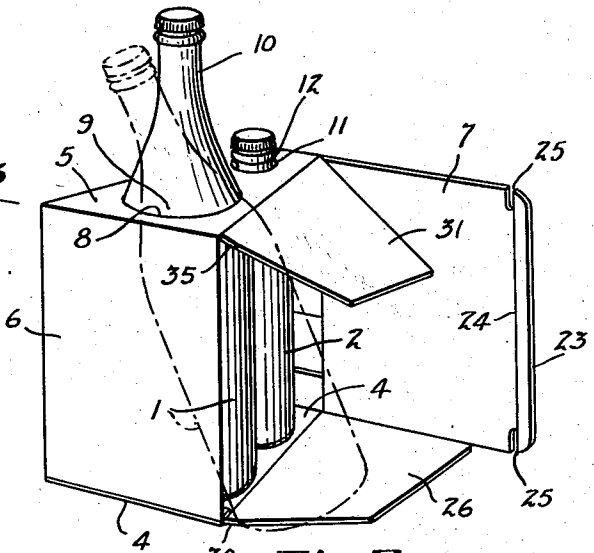


Fig. 2

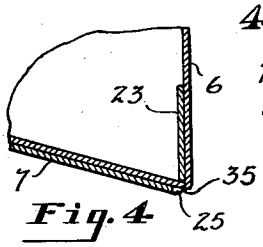


Fig. 4

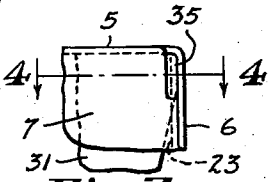


Fig. 3

Fig. 5

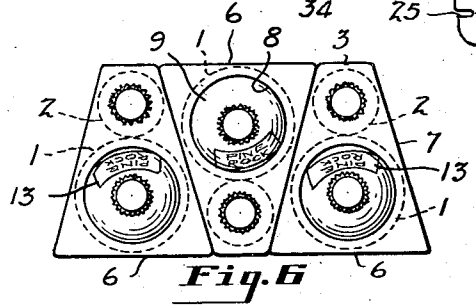


Fig. 6

INVENTOR
Floyd C. McKinley
BY
Evans & McCoy
ATTORNEYS

Patented Sept. 19, 1944

2,358,523

UNITED STATES PATENT OFFICE

2,358,523

BOTTLE PACKAGE

Floyd C. McKinley, Shaker Heights, Ohio

Application September 21, 1942, Serial No. 459,085

1 Claim. (Cl. 206—47)

This invention relates to a bottle package in which a large bottle and a small bottle are so mounted in a box as to provide a convenient and economical means of shipping, displaying and merchandising the combination of materials contained in the bottles.

More particularly the present invention aims to provide a package for a combination consisting of one or more large bottles of charged water and a small bottle of flavoring material such as a syrup for mixing with the charged water to make a beverage.

An object of the present invention is to effect a saving of bottles and bottle caps by replacing small beverage bottles with bottle sets containing the ingredients for a considerable number of drinks.

A further object is to provide a package in which a taller bottle provides a hand grip by which the package may be carried.

A further object is to provide a package including a box to receive the bottles which is so constructed that the labels on the bottles may be displayed.

A further object is to provide a package which readily nests with other like packages for storage or shipment.

A further object is to provide a box in which the bottles are positioned close together side by side and in which the bottles are held against relative movements.

A further object is to provide a paperboard box which is collapsible and capable of being folded flat for shipment, which is easily assembled, and which can be readily opened for insertion or removal of bottles.

With the above and other objects in view the invention may be said to comprise the device as illustrated in the accompanying drawing hereinafter described and particularly set forth in the appended claim, together with such variations and modifications thereof as will be apparent to one skilled in the art to which the invention pertains.

Reference should be had to the accompanying drawing forming a part of this specification, in which:

Figure 1 is a perspective view showing the package of the present invention;

Fig. 2 is a perspective view showing a side wall of the box in an open position which permits bottles to be inserted into or removed from the box;

Fig. 3 is a fragmentary side elevation viewed as indicated at 3—3 in Fig. 1;

Fig. 4 is a section taken on the line indicated at 4—4 in Fig. 3;

Fig. 5 is a plan view of the paperboard blank from which the box is formed;

Fig. 6 is a top plan view of a plurality of the bottle packages nested together.

Referring to the accompanying drawing, the package of the present invention as shown in these views comprises a large bottle 1 and a shorter and smaller bottle 2 which are mounted side by side in a paperboard box which has a narrow end wall 3 joined to a bottom wall 4 and a top wall 5, both of which taper toward the wall 3 and are of elongated trapezoidal form. The narrow ends of the top and bottom walls 4 and 5 are connected to the upper and lower edges of the end wall 3 and the wide ends of the walls 4 and 5 are connected by a wide end wall 6. The enclosure for the bottles is completed by side wall members 7 which cover the space between the tapering side edges of the top and bottom walls 4 and 5. The top wall 5 is provided with a large hole 8 which fits upon the shoulder 9 of the large bottle 1 when the bottle 1 is standing upon the bottom wall 4, the bottle 1 having an elongated neck 10 projecting above the top 5 which provides a hand grip by which the package may be carried. The top wall 5 is provided adjacent the narrow end thereof with a small hole 11 to receive the neck 12 of the small bottle 2. The holes 8 and 11 have their centers on the center line of the top wall so as to center the bottles between the side walls 7 and the sides of the container just sufficient to accommodate the bottles with the end walls 3 and 6 and side walls 7 closely adjacent the peripheries of the bottles.

The height of the box is such that a considerable portion of the shoulder 9 is exposed above the box so that a label 13 on said shoulder portion of the bottle will be visible. A label 14 on the small bottle 2 is visible through a window 15 formed in the lower portion of the end wall 3. The trapezoidal boxes provide packages which are economical of space by reason of the fact that they may be nested as illustrated in Fig. 6 of the drawing.

As shown in Fig. 5 of the drawing, the end and top and bottom walls are connected end to end in a strip and the free ends of the strip are joined together to provide a collapsible box body. The bottom wall 4 is integrally connected to the narrow end wall 3 and is adapted to swing about a suitable fold or hinge line 16, and the

narrow end of the top wall 5 is integrally and hingedly connected to the opposite end of the wall 3 by means of a hinge or a fold line 17. The wide end wall 6 is integrally and hingedly connected to the wide end of the top wall 5 by a fold or hinge line 18. The free end of the wall 6 is provided with a flap 19 which is integrally and hingedly connected to the body of the wall by a fold or hinge line 20. The ends of the strip consisting of the end and top and bottom walls are connected together by attaching the flap 19 to the free end of the bottom wall 4. Any suitable attaching means may be employed such as a layer of adhesive along the marginal edge 21 of the bottom wall 4. The side walls 7 are integrally and hingedly connected with the side edges of the narrow end wall 3 by hinge or fold lines 22, and the free ends of the side walls 7 are provided with flaps 23 which are integrally and hingedly connected to the walls 7 by means of fold or hinge lines 24, short slots 25 being provided at opposite ends of the hinge lines 24.

Flaps 26 are integrally and hingedly joined to the side edges of the bottom wall 4 and are separated from the side walls 7 in the flat blank by cuts 27, hinge or fold lines 28 being provided along the tapering edges 29 of the wall 4. The flaps 26 are provided with tapering edges 29 at the ends thereof connected to the wide end of the bottom 4, the tapering edges 29 terminating a short distance outwardly from the fold lines 28 to provide shoulders 30 which are adapted to enter the slots 25 in the side walls 7, as shown in Figs. 3 and 4, to lock the side walls in closed positions.

The top wall 5 has side flaps 31 separated from the side walls 7 in the flat blank by cuts 32 and integrally and hingedly connected to the top wall 5 by hinge or fold lines 33 along the tapering side edges of the top wall. The flaps 31 have tapering edges 34 and shoulders 35 corresponding to the edges 29 and shoulders 30 on the bottom wall flaps. When the flaps 26 and 31 of the top and bottom walls are folded to positions at right angles to the top and bottom walls, they form parts of the side walls and serve to stiffen the side walls, the tapered edges 29 and 34 provide a slot for entry of the flaps 23 of the side walls, and the shoulders 30 and 35 are adapted to enter the slots 25 to lock the side walls in closed position. Either side wall can be readily opened by freeing the shoulders 30 and 35 from the slots 25 and when a side wall is opened as illustrated in Fig. 2 of the drawing, the bottles may be inserted into or removed from the box.

The flap 19 may be attached to the end of the bottom wall 4 at the box factory and the box may be collapsed for shipment if desired. At the place of use the box can be quickly and easily assembled in operative position to receive the bottles by opening the collapsible body and securing one of the side wall members 7 in closed position. After insertion of the bottles the second side wall can be secured in closed position and the package is completed. The bottles may be removed by opening one of the side walls and when empty may be reinserted in the box for return to the retailer and to the bottler. The box not only serves to package the two bottles together but also to protect the bottles against breakage, particularly when a considerable number of packages are nested together during transportation.

It is to be understood that variations and modifications of the specific devices herein shown and described for purposes of illustration may be made without departing from the spirit of the invention.

What I claim is:

A paperboard bottle box comprising top and bottom walls of elongated tapering trapezoidal form, the top wall having a large hole adjacent its wide end and a small hole adjacent its narrow end, said holes being centrally disposed with respect to the side edges of the wall and adapted to receive the necks of a large and a small bottle standing on the bottom wall and to position said bottles in the container, a wide end wall joining the wide end edges of the top and bottom walls, a narrow end wall joining the narrow end edges of the top and bottom walls, and two side walls, one of said side walls being hinged to an edge of an end wall to afford access to the container for insertion or removal of the bottles, and means for releasably holding said hinged wall in closed position.

FLOYD C. McKINLEY.