

Sept. 29, 1942.

J. L. LYONS, JR

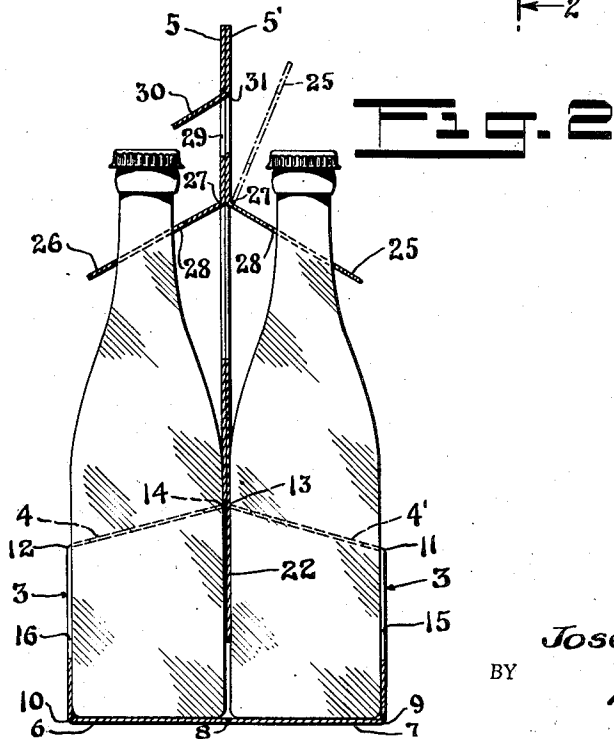
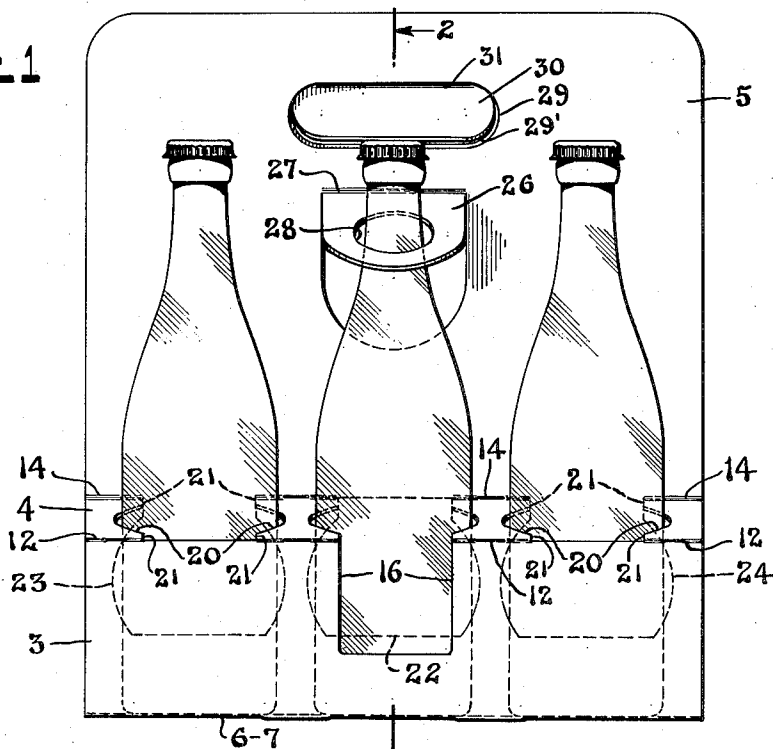
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COLLAPSIBLE CARRIER AND DISPLAY CARTON FOR BOTTLES

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4 Sheets-Sheet 1

Fig. 1



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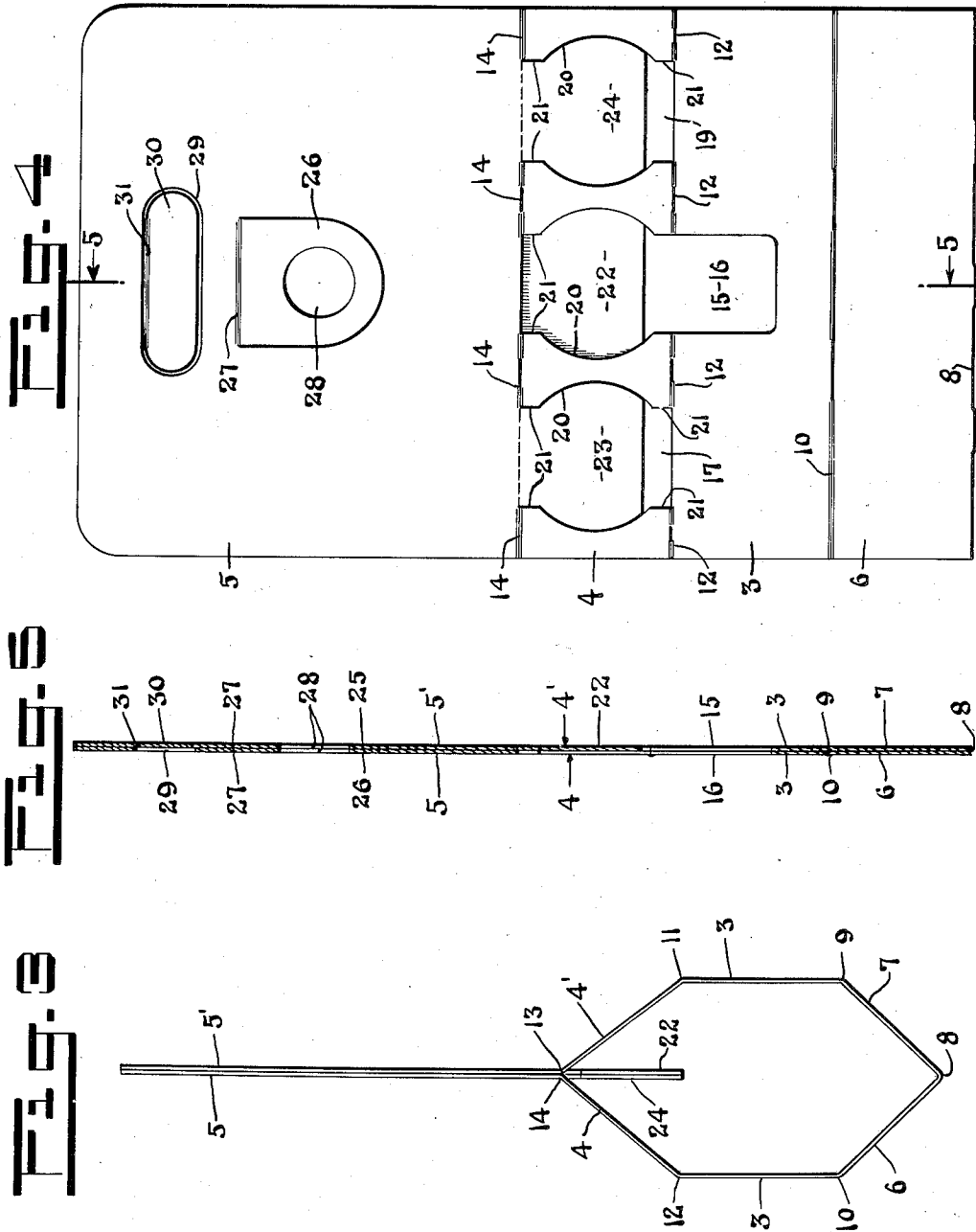
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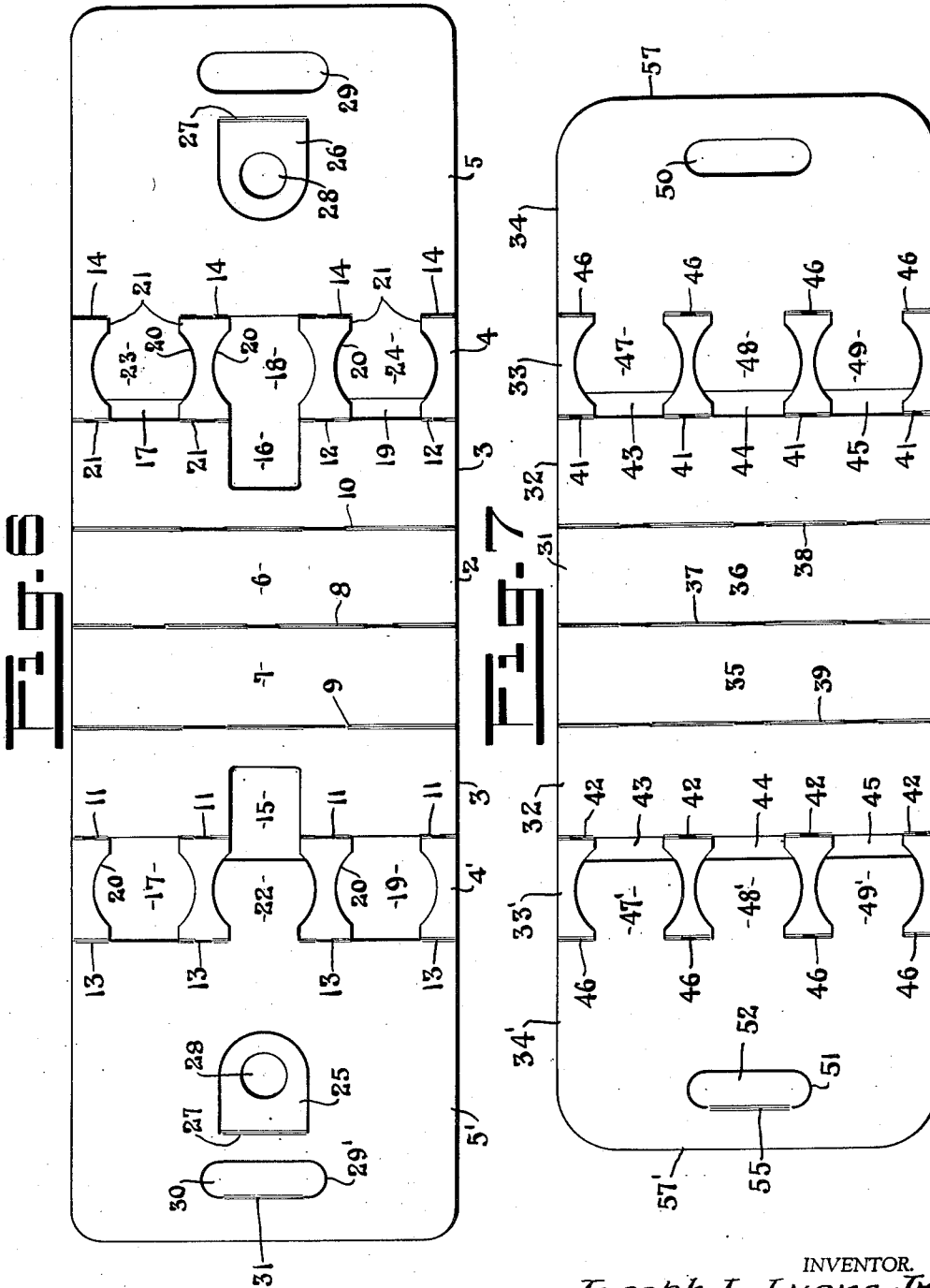
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COLLAPSIBLE CARRIER AND DISPLAY CARTON FOR BOTTLES

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4 Sheets-Sheet 3



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COLLAPSIBLE CARRIER AND DISPLAY CARTON FOR BOTTLES

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Fig. 8

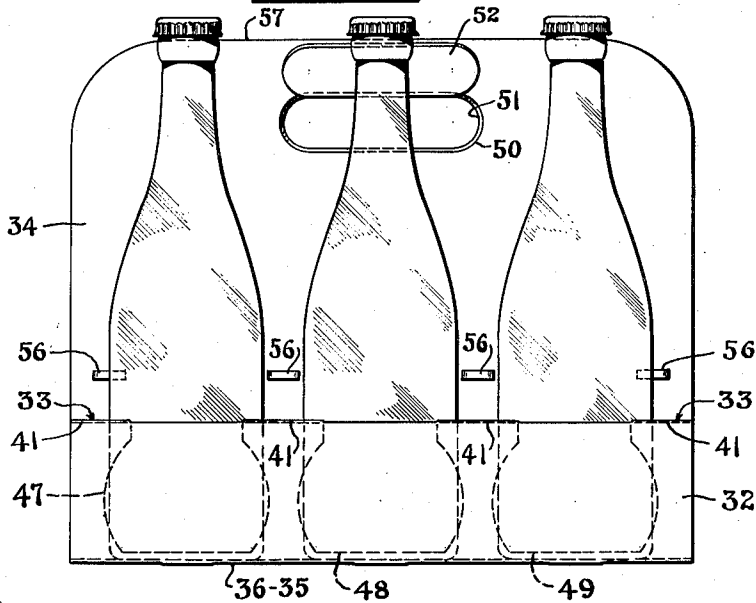
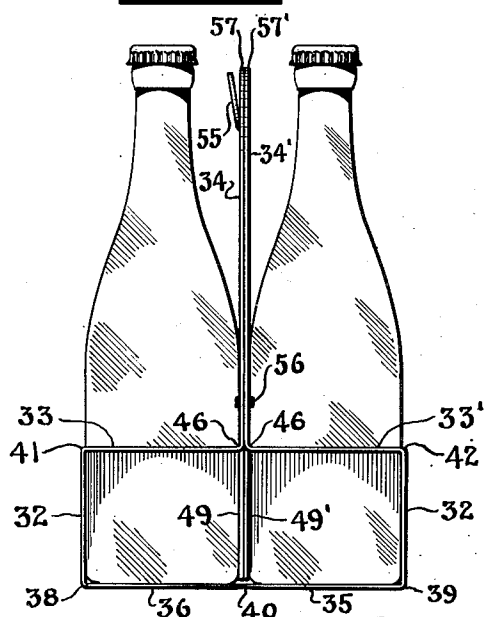


Fig. 9



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COLLAPSIBLE CARRIER AND DISPLAY
CARTON FOR BOTTLESJoseph L. Lyons, Jr., Chicago, Ill., assignor to
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Application May 17, 1939, Serial No. 274,089

2 Claims. (Cl. 224—45)

This invention relates to a collapsible carrier carton for bottles which is adapted to be formed into a carton capable of carrying or displaying a plurality of bottles containing soft drinks or other bottled goods, or to be used as a container for transporting or shipping such bottles, and which may be collapsed from its erected condition into a flat state when not being used for carrying bottles or for displaying or transporting the same.

One of the objects of the invention is to improve upon the constructions which have heretofore been employed in connection with collapsible bottle carriers of a similar type.

A further object of the invention is to provide a collapsible bottle carrier construction which, when it is in its erected position, will effectively maintain a plurality of bottles therein so that they may easily and safely be transported from place to place, and which at the same time can be utilized as an effective display carton for said bottles when it is not being used as a carrier.

A further object of the invention is to provide a collapsible bottle carrier construction which is so made that when it is in its erected condition and when bottled goods are positioned therein, a number of the carriers filled with said bottles may be stacked one upon the other either for display purposes or for storage or shipment.

A further object of the invention is to provide a bottle carrier construction made from one piece of cardboard material and which may be erected to form a bottle carrier or display carton or collapsed into a flat state when it is not being used for bottle carrying or bottle display purposes.

A further object of the invention is to provide a novel construction and arrangement of the bottle spacing elements in a collapsible carrier carton by means of which the bottles carried therein may be maintained spaced from each other and protected from jars that might occur during the transport of the carriers.

A further object of the invention is to provide a novel bottle carrier construction wherein the openings in the carrier through which the bottles extend are shaped in such a manner that they will exert a gripping action on the sides of the bottle and thus firmly hold the said bottles from displacement when a bottle filled carrier is being carried from place to place.

Further objects of the invention will appear more fully hereinafter.

Referring to the drawings, the invention is illustrated therein as follows:

Figure 1 is a side elevational view of a preferred

form of my new bottle carrier showing the same in its erected condition and with the bottles positioned therein.

Figure 2 is a sectional view of Figure 1 taken on the line 2—2 and looking in the direction of the arrows.

Figure 3 is an end elevational view showing the bottle carrier construction in a partially open or erected condition.

Figure 4 is a side view of the carrier when it is in a folded collapsed and flat condition.

Figure 5 is a sectional view of Figure 4 taken on the line 5—5 looking in the direction of the arrows.

Figure 6 is a plan view of the blank of cardboard or other material cut and scored so that it may be formed into the carrier shown in Figure 1.

Figure 7 is a plan view of a blank of cardboard material formed so that it will provide a slightly modified form of carrier such as is illustrated in Figures 8 and 9.

Figure 8 is a side elevational view of the modified form of construction of carrier of my invention in its erected condition and showing it filled with bottles and resting on a flat surface.

Figure 9 is an end elevational view of the carrier construction shown in Figure 8.

The blank of material from which the bottle carrier carton shown in Figures 1 to 5 is formed is illustrated in Figure 6. This blank of material may be composed of cardboard or paper board or of any other suitable flat material. The cardboard is cut and scored so as to provide a bottom, sides and handle portions for the carton.

In the blank illustrated in Figure 6, the bottom portion for the carrier is indicated generally at 2, the lower side walls of the carrier are indicated at 3, intermediate side walls are indicated at 4 and 4', and the upper or handle sections of the carrier are shown at 5 and 5'.

The bottom portion 2 of the carrier carton includes two sections 6 and 7 which are hingedly connected together along fold line or hinge connection 8. This fold line may be formed in any suitable manner.

The two lower side walls 3 of the carrier are hingedly connected to the bottom sections 6 and 7 along the fold lines or hinge connections 9 and 10. These lower side wall sections are of such height when the carrier is in its erected condition that they will enclose the lower portions of the bottles that may be carried or displayed in the carrier. The central portions of the side walls 3 have the cut out portions 15 and 16 which are intended to more fully display the center bottles

in the carrier when said carrier is in its erected condition and is being used for display purposes.

The two intermediate side wall sections of the carrier carton indicated at 4 and 4' are hingedly connected at their lower edges to the upper edges of the lower side walls by means of the fold lines or hinge connections 11 and 12. The intermediate side wall sections are formed with the openings 17, 18 and 19 therein which are adapted to receive the bodies of the bottles to be carried or displayed by the carrier when it is in its erected condition. The openings are formed with a circular shaped edge portion 20 adapted to encircle the bodies of the bottles when they are positioned in the carrier carton. The said circular shaped openings are positioned centrally of the intermediate side wall sections and are spaced from the lower side walls and the upper handle sections by the flange portions 21.

The upper or handle sections 5 and 5' of the carrier are hingedly connected to the intermediate side wall sections 4 and 4' at their lower portions by means of the fold lines or hinged connections 13 and 14. The upper handle section 5' at its lower end includes a bottle spacing flap 22 which is formed as a partially cut out portion from the intermediate side wall section 4'. The upper handle section 5, at its lower end, includes the bottle spacing flaps 23 and 24 which are formed as partially cut out portions from the intermediate side wall section 4. These flaps are adapted to extend downwardly between the rows of bottles when the carrier is in the erected condition and to space said rows of bottles from each other and also to act as a cushion against jars imparted to the bottles during transport of the carrier carton.

The upper handle sections 5 and 5' are also provided with the flaps 25 and 26 which are formed as cut out portions of said handle sections. The flaps 25 and 26 are hingedly connected to the handle sections along the fold lines 27 and are provided with the circular openings 28 which are adapted to receive the necks of the center bottles carried by the carrier carton when it is in its erected and carrying condition. The handle sections 5 and 5' are also provided with the openings 29 and 29' which permit the insertion of the fingers for gripping the handle section of the carton carrier when bottles carried thereby are being transported from place to place. The opening 29' in handle portion 5' is provided with a hinged flap 30 which is formed as a partially cut out portion of the handle section 5'. This flap is adapted to be bent outwardly along the hinge line 31 to facilitate the gripping and carrying of the carton carrier.

In assembling the bottle carrier carton in its erected and bottle carrying condition the blank shown in Figure 6 is first folded along the fold lines 8, 9 and 10 to form the bottom and lower side walls of the carrier. Then the intermediate side walls are folded along the fold lines 11 and 12 and 13 and 14 so that said intermediate side walls will extend approximately at right angles to the vertically extending lower side walls 3 and also at right angles to the upper or handle sections 5 and 5'. When this is done the upper or handle sections 5 and 5' will be brought together and the flaps 22, 23 and 24 will be caused to extend downwardly into the central portion of the interior of the carrier, as clearly shown in Figures 2 and 3. The upper or handle sections of the carrier are then secured together by glue or by the use of any suitable fastening means and

so that the openings formed therein by reason of the partially cut out flaps 25 and 26 and the openings 29 which constitute the finger grip of the carrier, coincide with each other.

When the carrier is thus formed in its erected condition it can be seen that the bottles to be carried can be readily inserted therein through the openings 17, 18 and 19, and when said bottles are in position in the carrier their lower outer portions will be enclosed by the lower side walls and the two rows of bottles will be separated from each other by the downwardly extending flaps 22, 23 and 24. Also the central bottles in the carrier will have their lower portions, which usually contain the label for the bottle, exposed to view by reason of the cut out portions 15 and 16 of the lower side walls. The central bottles are also held more securely in place in the carrier by inserting the neck portions thereof through the openings 28 provided in the flaps 25 and 26.

When the carrier containing the bottles is being transported or carried the intermediate side wall sections will be pulled upwardly from their approximate right angle position and so that they will assume a plane with respect to the lower side walls which will be at a more acute angle with said lower side walls. When this occurs the edges 20 of the circular shaped openings in the intermediate side walls will be caused to firmly grip the sides of the bottles and hold them firmly against shifting in the carrier. Also the edges of the circular openings 28 in the flaps 25 and 26 will be caused to grip the neck portions of the center bottles and thereby provide an additional means for holding the center bottles from movement. Also, when the bottles are being carried in the carrier carton the spacing flaps 22, 23 and 24 will effectively keep the bottles in each row out of contact with each other and will cushion the said bottles against jars that may be imparted to them.

In the carrier carton illustrated in Figures 7, 8 and 9, a slightly modified form of construction is shown. In connection with this form of construction the blank for forming the carton is shown in Figure 7. The said blank is cut and scored so as to provide a bottom for the carton indicated generally by the numeral 31. The lower side walls are indicated at 32. The intermediate side walls are shown at 33 and 33' and the upper handle sections at 34 and 34'.

The bottom 31 includes two sections 35 and 36, the same as in the carton illustrated in Figures 1 to 6, and said sections are hingedly connected together along the fold line or hinge connection 37.

The two lower side walls 32 are identical in construction as the side walls of the carton carrier shown in Figures 1 to 6, except that they do not have any cut out portion in the central portion thereof, and are hingedly connected to the bottom sections 35 and 36 along the fold lines or hinge connections 38 and 39.

The two intermediate side wall sections are indicated at 33 and 33' and are hingedly connected at their lower edges to the upper edges of the lower side walls by means of the fold lines or hinge connections 41 and 42 and are formed with the circular shaped openings 43, 44 and 45 therein, which are similar in all respects to the openings 17, 18 and 19 in the carton shown in Figures 1 to 6.

The upper or handle sections indicated at 34 and 34' are hingedly connected to the intermedi-

ate side wall sections 33 and 33' at its lower portion by means of the fold lines or hinge connections 46. The length of the handle sections is such that their upper edges will be below the tops of the bottles positioned in the carrier when the bottle filled carrier is resting upon a flat surface.

The handle section 34 is provided with the bottle spacing flaps 47, 48 and 49 which are formed as partially cut out portions from the intermediate side walls 33. The handle section 34' is provided with the bottle spacing flaps 47', 48' and 49' which are formed as partially cut out portions from the intermediate side walls 33'. These flaps are adapted to extend downwardly between the two rows of bottles when the carrier is in its erected condition and bottles are placed in the carrier, and to extend approximately to the bottom of the carrier when it is resting on a flat surface, as clearly indicated in Figures 8 and 9.

The handle section 34 is provided with a finger grip opening 50 and handle section 34' is formed with a similar opening 51 which has a partially cut out flap 52, hingedly connected to said handle section along the fold line 55. The two upper or handle sections 34 and 34' are adapted to be secured together in any well known manner either by gluing or by means of staples as indicated at 56 in Figure 8.

When the carton illustrated in Figures 7, 8 and 9 is in its erected condition as shown in Figures 8 and 9, and is filled with bottles and resting on a flat surface, the tops of the bottles will extend slightly above the top edges 57 and 57' of the handle sections. This fact enables a number of the bottle filled carrier cartons to be stacked one upon the other and the bottoms of the carrier cartons will be supported upon the tops of the bottles of the carrier carton below it. This form of construction, having the top edge of the handle sections below the tops of the bottles when the bottle filled carton is resting upon a flat surface, may also be employed in connection with the carton illustrated in Figures 1 to 6 and it will greatly facilitate the storing and shipping of a number of bottle filled cartons because said bottle filled cartons may be stacked one upon the other and thus conserve space. Also the fact that the bottles are stacked in the cardboard carriers provides a cushion for said bottles against jars and shocks which are always damaging when bottled goods are being shipped or transported. This form of construction is also of advantage when a number of bottle filled carrier cartons are being displayed on the counters or shelves of retail stores.

It will be evident that when the carrier cartons illustrated and described herein are not being used for bottle carriers or display purposes they may be collapsed from their erected condition

into a flat state such as is shown in Figures 4 and 5 and a number of them may be stored or packed together in a small space.

What I claim is:

1. A collapsible bottle carrier adapted to be formed into an erected condition so as to accommodate two rows of bottles therein and having a bottom, two lower side wall sections, two intermediate side wall sections and a handle section, said lower side wall sections being hingedly connected to said bottom, said intermediate side wall sections being hingedly connected at their lower edges to the lower side wall sections and at their upper edges to the handle section so that when said carrier is in its erected condition said intermediate side walls will be disposed in a plane substantially at right angles to said lower side wall sections and to the handle section, said intermediate side wall sections having bottle receiving openings formed therein, said lower side wall sections having cut out portions therein for exposing the lower body portion of the center bottles of each row of bottles when they are in position in the carrier, said handle section having means formed by cut out portions thereof for engaging the necks of the center bottle of each row of bottles and also having a finger gripping opening formed therein.

2. A collapsible bottle carrier adapted to be formed into an erected condition so as to accommodate two rows of bottles therein and having a bottom, two lower side wall sections, two intermediate side wall sections and a handle section comprising a continuation of the intermediate side wall sections, said bottom being formed of two sections of material hingedly secured together, said lower wall sections being hingedly connected to the outer edges of said bottom, said intermediate side wall sections being hingedly connected at their lower edges to the lower side wall sections and at their upper edges to the lower portion of the handle sections, said intermediate side wall sections having a plurality of bottle receiving openings formed therein and being adapted to be disposed in a plane at substantially right angles to the lower side wall sections and the handle section, said lower side wall sections having cut out portions therein for exposing the lower body portion of the center bottles of each row of bottles when they are in position in the carrier, said handle section having bottle spacing means at its lower portion formed by cut out portions from the intermediate side wall sections and said handle section having apertured flaps cut out therefrom which are adapted to engage over the necks of the center bottle of each row of bottles in the carrier and also having a finger gripping opening formed therein.

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Disclaimer

2,296,937.—*Joseph L. Lyons, Jr.*, Chicago, Ill. COLLAPSIBLE CARRIER AND DISPLAY CARTON FOR BOTTLES. Patent dated Sept. 29, 1942. Disclaimer filed Oct. 12, 1951, by the assignee, *Empire Box Corporation*. Hereby enters this disclaimer to claims 1 and 2 of said patent.
[*Official Gazette November 13, 1951.*]