Sept. 15, 1936. B. STONE 2,054,641

COMBINED ARTICLE WRAPPER AND CARRIER

Filed Oct. 25, 1934 2 Sheets-Sheet 1

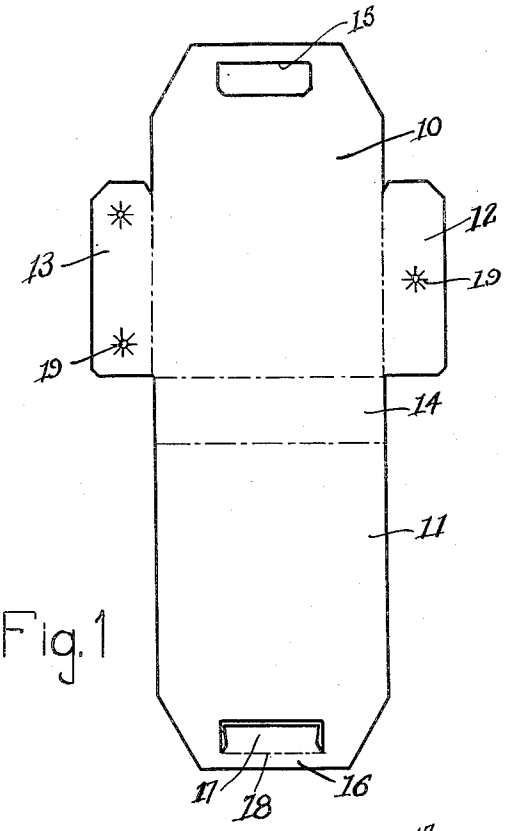


Fig. 1

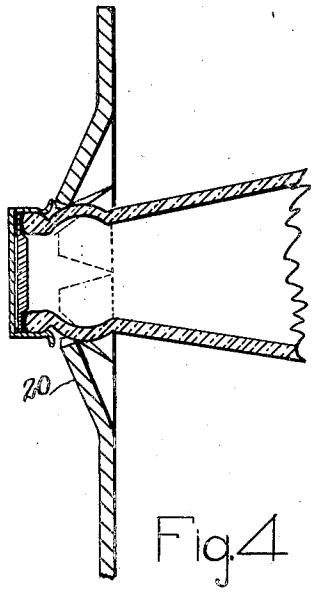


Fig. 4

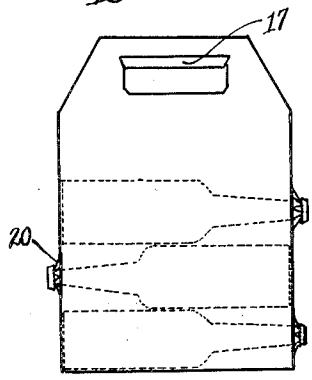


Fig. 2

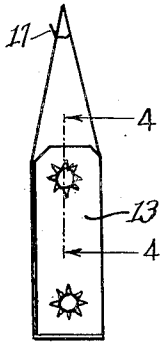


Fig. 3

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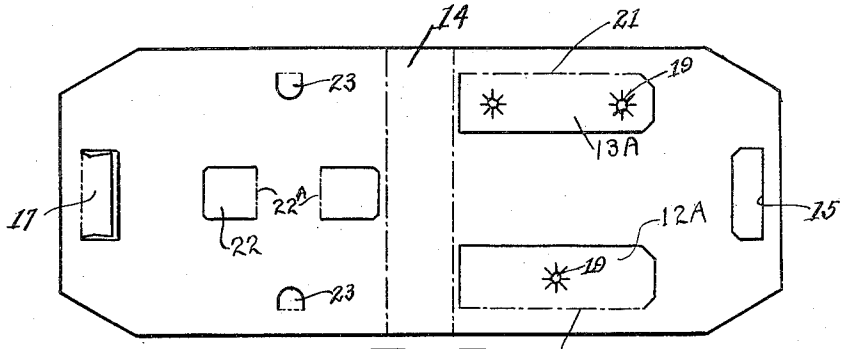


Fig. 5

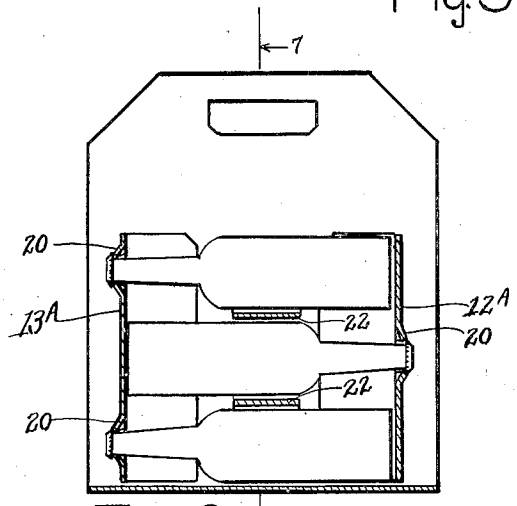


Fig. 6

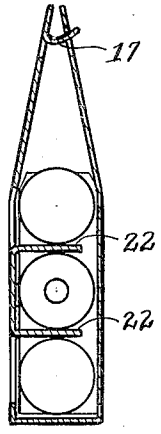


Fig. 7

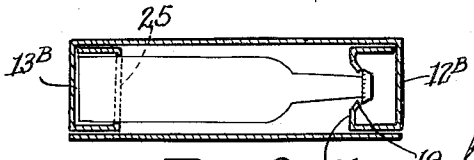


Fig. 8

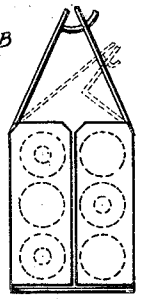


Fig. 9

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UNITED STATES PATENT OFFICE

2,054,641

COMBINED ARTICLE WRAPPER AND CARRIER

Barbara Stone, New York, N. Y.

Application October 25, 1934, Serial No. 749,906

17 Claims. (Cl. 229—52)

This invention relates to improvements in means for carrying bottles or the like and is particularly adapted for use by retailers in packing bottled goods for delivery to customers.

At the present time beverages and other bottled goods when purchased from retailers are packed in a paper bag or sheet of paper. Such bag or package is clumsy to handle, crude and unsightly in appearance and otherwise generally unsatisfactory. Often as in the case of beverages the bottles are wet from contact with ice and when the bag or paper containing such bottles becomes wet it will easily tear with consequent loss of the contents or at least inconvenience to the carrier. Where the sale is for more than a single bottle the bottles contact each other and aside from the fact that they are exceedingly cumbersome to pack they are also difficult to carry.

Attempts have been made to overcome these difficulties and to provide carrier cartons of one type or another but in each case the device was expensive as compared with paper bags and such devices were complicated and necessitated considerable time and patience on the part of the retailer to insert and pack bottles therein.

It is a primary object of the invention to provide an improved carrier which may be made from a single blank of sheet material such as heavy paper, cardboard or the like and which requires no adhesives, tape or other extraneous sealing materials.

A further object is to provide a device of the type described which is simple and economical in construction and operation and one which may be used to carry a plurality of bottles safely and compactly.

A further object is to provide such a carrier which may be made to ship flat and easily and quickly set up for use.

These and other objects of the invention and the means for their attainment are set forth in the following specification descriptive of the accompanying drawings, illustrating preferred forms of the invention and in which:

Fig. 1 is a plan view of one embodiment of the invention of a blank as cut and scored ready to be formed into a carrier.

Fig. 2 is a front elevation of the carrier shown in Fig. 1, but in folded condition ready for use.

Fig. 3 is a side view of the device shown in Fig. 2.

Fig. 4 is a partial sectional view of the device taken on line 4—4 of Fig. 3.

Fig. 5 is a plan view of a blank showing a modified construction.

Fig. 6 is a vertical sectional view of the modification shown in Fig. 5, but folded for use and showing 3 bottles in position.

Fig. 7 is a vertical sectional view taken on line 7—7 of Fig. 6.

Fig. 8 is a horizontal section showing a modified form of the device in which the bottles are completely enclosed by the carrier.

Fig. 9 is a side elevation of a further modification of the structure shown in Fig. 8 and showing the use of the device for carrying 2 vertical tiers of bottles.

The carrier shown in Figs. 1 to 4 inclusive is die stamped from a single cut-out sheet of cardboard or similar material. The sheet has a contour as illustrated in Fig. 1, and is scored for folding as indicated by the dot-dash lines in this figure.

The cut-out blank forms a back wall 10, a front wall 11, two ends 12 and 13 and a bottom 14. One end of the blank is cut out to form a handle 15 and the other end die cut to form a handle 16, the material 17, when folded on its scored line 18, serving as a locking tab for engagement with the handle 15.

For positively positioning the bottles in the carrier, there are provided in the end walls 12 and 13 what might be termed locking rosettes 19 there being in this case 2 such rosettes on the end wall 13 and one on the end wall 12 arranged intermediate the two rosettes on the end wall 13. These rosettes may be formed by piercing a hole to form the center of the rosette and cutting through the material a plurality of slots radiating from the hole.

In operation, the carrier may be placed upon a table in flat condition, the ends 12 and 13 folded up along their scored lines to assume a position at right-angles to the back wall 10 and the bottles (in this case 3) are alternately arranged as shown in Fig. 2, and positioned with the heads extending through the locking rosettes. The bottle heads may be very easily urged into engagement with the locking fingers 20, since the fingers will easily yield to slight pressure until the ends of the fingers have slipped over the crown bottle cap or neck bulge or lip as the case may be. It will be seen from inspection of Figs. 2 and 4 that the head of the bottle is effectively held in place from withdrawal until considerable force is applied. The front wall 11 is then folded up to overlie the bottles so that one bottle will rest upon the bottom 14 when the carrier is in upright position and the other bottles will rest one upon the other, the locking tab 17 being then interengaged

with the handle 15 to produce a compact, neat package.

In the modification shown in Figs. 5, 6, and 7 the end walls 12A and 13A instead of extending beyond the edge of the blank as in Fig. 1, are in this case cut from the blank itself as shown in Fig. 5 with score or folding lines 21 upon which the ends 12A and 13A may be folded to a position at right angles to the blank as shown in Fig. 6. Separators 22 struck from the blank as seen in Fig. 5 are provided with scored fold lines 22A to permit folding thereof into position, shown in Fig. 7.

To prevent the ends 12A, 13A from moving outwardly, when the carrier is in set-up condition, there may also be provided tabs 23 which may be folded on their respective score lines to a position at right-angles to the blank to intercept the free edges of the ends 12A and 13A.

In both forms of the invention thus far discussed, it will be noted that the neck end of the bottles extend beyond the end walls of the carrier. If it be desired to completely conceal the bottles within the carrier the modification illustrated in Figs. 8 and 9 may be used. In the form illustrated in Fig. 8 the blank may be in all respects similar to that shown in Figs. 1 to 4 inclusive except that the ends 12B and 13B are folded reentrantly as shown in Fig. 8, producing a double walled end, the outer walls of the ends 12B and 13B being imperforate and the locking rosettes 19 being provided in the inner walls 24. Openings 25 are also provided in the inner end walls 24 opposite each locking rosette, for reception of the bottom end of the bottle. In this form, separating partitions such as 22 will be unnecessary since the bottles may be spaced and held apart so as not to contact.

While the modifications thus far described have been shown for carrying 3 bottles, obviously any reasonable number of bottles may be carried merely by providing a carrier large enough and with sufficient locking rosettes to accommodate the desired number of bottles.

It may be desirable for compactness to carry 2 vertical tiers of bottles in which case the front wall of the carrier may be provided with ends similar to the ends provided on the back wall as illustrated in Fig. 9 or the ends 12B and 13B on the back wall may be made wide enough to accommodate 2 bottles lying side by side to produce the same effect.

In the form shown in Figs. 8 and 9 the blank would lie flat on a supporting surface with the ends folded up; the bottom ends of the bottles are inserted in their respective openings and with the palms of both hands the end walls may be pressed against the ends of the bottles so that the heads enter the locking rosettes and engage the locking fingers.

While the device herein specifically described is a bottle carrier the carrier may be constructed to contain other objects such as jars and cans, without departing from the scope of this invention. All that is necessary to adapt the carrier to these other objects is to provide rosette constructions and the blank of the size necessary to accommodate the object at hand.

If desired, the bottles may be packaged at the bottling plant and packed in cases in packages of 3 or 6, etc., in which event the extending carrying portions of the carrier or wrapper may be folded down flat, an intermediate position being indicated by dotted lines in Fig. 9.

While certain preferred embodiments of the invention have been shown and described, it will be understood that changes in form, arrangements, proportions, size and details thereof may be made without departing from the scope of the invention as defined in the appended claims.

I claim:

1. In a combined wrapper and carrier for bottles having an annular protuberance on their necks front, back and side walls, and locking rosettes in the side walls for locking engagement against the protuberance of bottles wrapped therein.

2. In a combined wrapper and carrier for bottles having an annular protuberance adjacent the mouth thereof front, back and side walls, and means in the side walls for locking engagement over the necks and against the protuberance of bottles wrapped therein.

3. In a combined wrapper and carrier for bottles provided with a crown cap, front, back and side walls and means in the side walls for interlocking engagement with the caps of bottles wrapped therein.

4. A combined carrier and wrapper for bottles having a crown cap, or a lip or both, or other annular protuberance adjacent the mouth of the bottle, said wrapper comprising a blank formed of a single piece of material and scored intermediate its length to provide front, back and bottom walls, flaps extending from a wall to form sides of the carrier when folded, and means in the sides to lockingly engage the protuberance on bottles disposed therebetween.

5. A bottle carrier for bottles having a lip, or crown cap or other annular protuberance at the mouth end thereof, said carrier comprising a blank formed of a single piece of material and scored intermediate its length to provide front, back and bottom walls and tabs extending from one of the walls to form sides of the carrier when folded, means in the sides to lockingly engage the protuberance on bottles disposed therebetween, handle openings in opposite ends of the blank to register with each other when the blank is folded and a locking tab to extend from the handle of one wall through the hand hold in the other wall and to be folded thereover to unite both handles into a single integral sturdy handle structure.

6. A combined bottle wrapper and carrier comprising a body formed of a single blank with upturned portions forming front and rear walls, free swinging bent portions from one of the walls forming side walls, said side walls having means for interengagement with bottle necks of bottles disposed between the side walls to retain the side walls in position substantially at right-angles to the front and rear walls, and the upper portion of the front and rear walls having hand openings to register and produce a carrying handle.

7. An article carrier comprising a blank formed of a single piece of material and scored intermediate its length to provide front, back and bottom walls, flaps extending from one of the walls to form sides of the carrier when folded and means in the sides to lockingly engage at least one end of articles disposed between the carrier sides to retain the sides substantially at right-angles to the front and back walls.

8. A collapsible container composed from a single piece of material, said container having a pair of flaps adapted to be folded substantially at right-angles to the body of the material, said flaps having piercings adapted to receive the neck portions of the bottles, said container further

having flaps to function when folded as partitions between the body of the bottles, locking members for holding the first-mentioned flaps in their folded position, and end openings in the container adapted to register when the said container is in operable position for carrying the same.

9. A blank adapted to be folded to provide a container for bottles, said blank having score lines dividing the same into three portions to represent bottom and side walls of the container, one of said side walls being provided with flaps adapted to be folded at an angle with respect to the said side wall, said flaps being provided with locking rosettes to lockingly engage neck portions of the bottles respectively, to retain the flaps substantially at right-angles to the side walls, and to retain the bottles against any substantial longitudinal movement.

10. In a handle box the combination of a bottom panel, a front leaf and back leaf extending from the said bottom panel a pair of side leaves extending from one of said panels, said side leaves being provided with locking rosettes to lockingly engage the neck of the bottles to retain the side leaves substantially at right-angles to the front and back leaves, and tabs on one of the leaves for disposition between the bottles to act as separators thereof.

11. A combined bottle wrapper and carrier for bottles having a lip, a crown cap or other annular protuberance at the mouth end thereof, said carrier comprising a body formed of a single blank with upturned portions forming front and rear walls, bent extensions from one of the walls forming side walls, said side walls having means for interengagement with the protuberances of bottles disposed therebetween, whereby the side walls are retained substantially at right-angles to the front and rear walls, and the bottles retained, substantially against longitudinal movement in the wrapper, and the upper portion of the front and rear walls having hand openings to register and produce a carrying handle.

12. A collapsible container composed from a single piece of material, said container having a pair of flaps adapted to be folded substantially at right-angles to the body of the material, said flaps having piercings adapted to receive the neck portions of the bottles, locking members for holding the first mentioned flaps in their folded position, and end openings in the container adapted to register when the said container is in operable position for carrying the same.

13. A combined bottle wrapper and carrier comprising a body formed of a single blank with upturned portions forming front and rear walls, bent extensions from one of the walls being reentrantly folded to produce tubular side walls and locking rosettes in the opposed walls of the tubes for locking engagement with bottle necks.

14. A combined bottle carrier and wrapper having front, back and bottom walls, flaps integral with one of the walls to form sides, said sides having extensions folded reentrantly to produce bottle supports, said supports having locking rosettes for interengagement with the necks of bottles, said supports also having at least one opening for the reception of the bottom of a bottle.

15. A combined bottle carrier and wrapper having front, back and bottom walls, flaps integral with one of the walls to form sides, said sides having extensions folded reentrantly to produce bottle supports, said supports having means to lockingly engage with the necks of bottles, said supports also having at least one opening for the reception of the bottom of a bottle.

16. A combined bottle carrier and wrapper having front, back and bottom walls, flaps integral with one of the walls adapted to be folded at right angles thereto to form sides of the carrier, said sides having integral extensions folded reentrantly to produce bottle supports, means in said supports for locking engagement with the necks of some of the bottles disposed in the carrier, said supports also having means to receive and support the bottom ends of others of the bottles.

17. A combined container carrier and wrapper having front, back and bottom walls, flaps integral with one of the walls adapted to be folded at right-angles thereto to form sides of the carrier, said sides having integral extensions folded reentrantly to produce supports, means in said supports for locking engagement with one end of some of the containers disposed in the carrier, said supports also having means to receive and support the other end of others of the containers.

BARBARA STONE.