

Sept. 1, 1942.

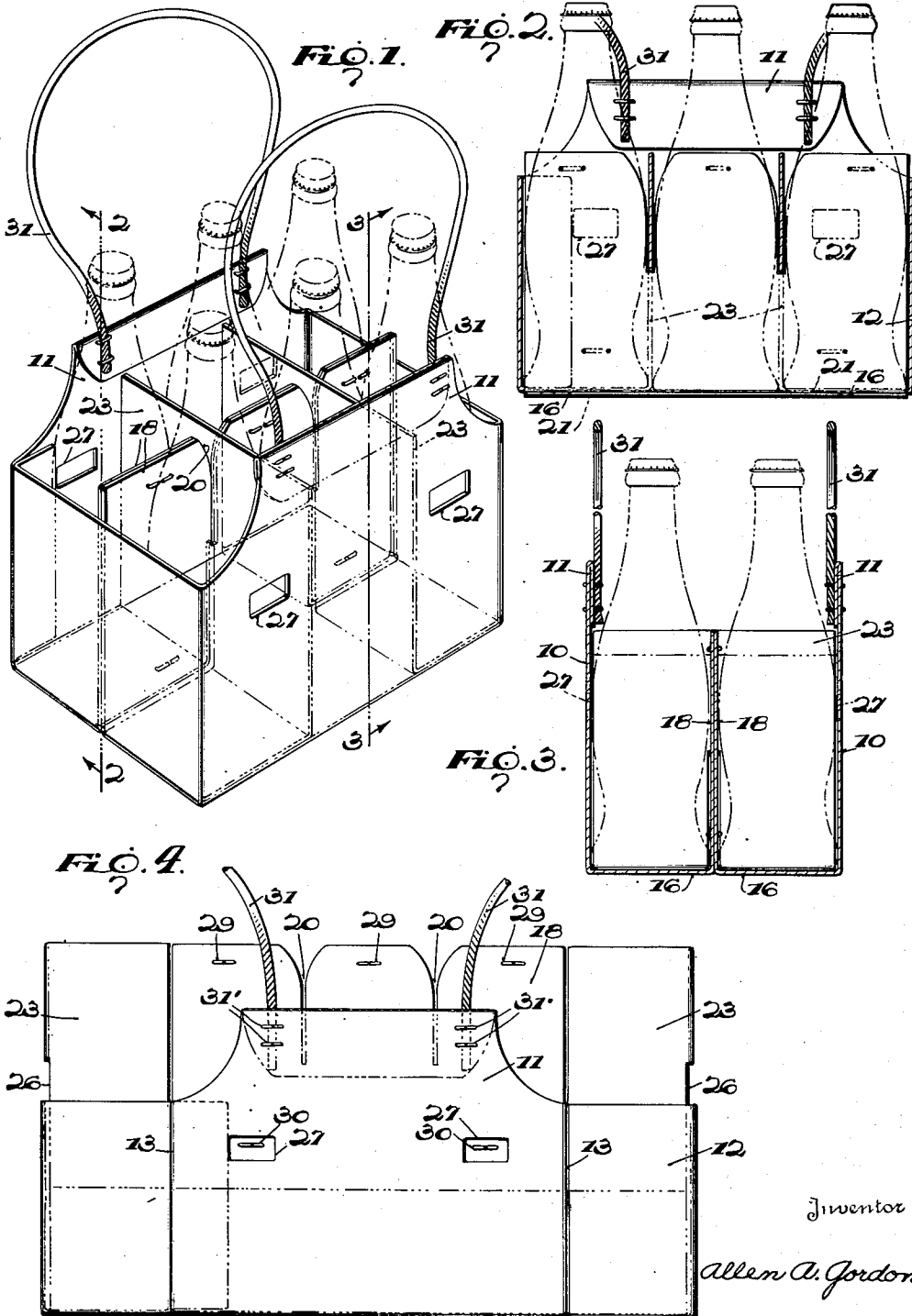
A. A. GORDON

2,294,874

BOTTLE CARRIER

Filed Dec. 26, 1940

2 Sheets-Sheet 1



Inventor

Allen A. Gordon

By *Cameron, Kerkam & Sutton*
Attorneys

Sept. 1, 1942.

A. A. GORDON

2,294,874

BOTTLE CARRIER

Filed Dec. 26, 1940

2 Sheets-Sheet 2

FIG. 5.

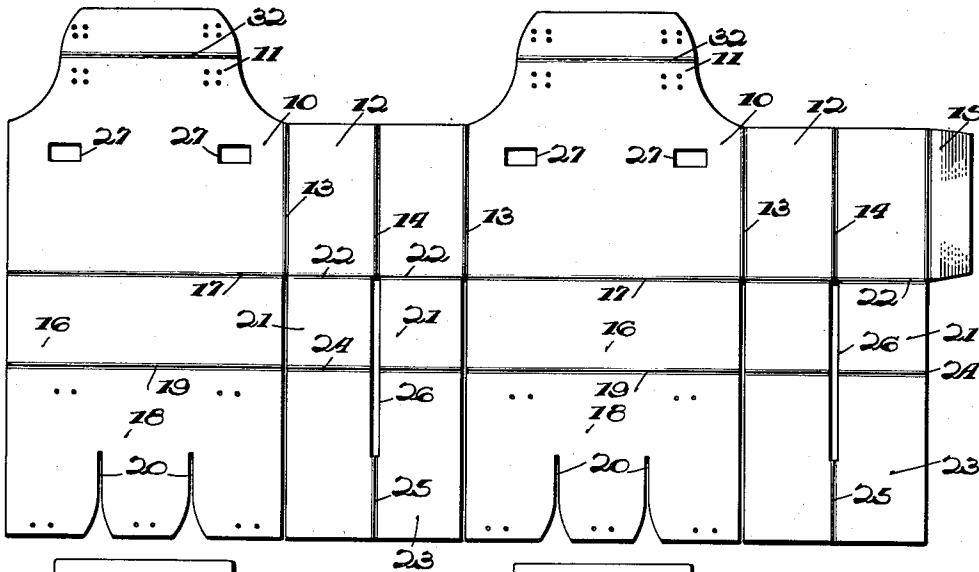


FIG. 6.

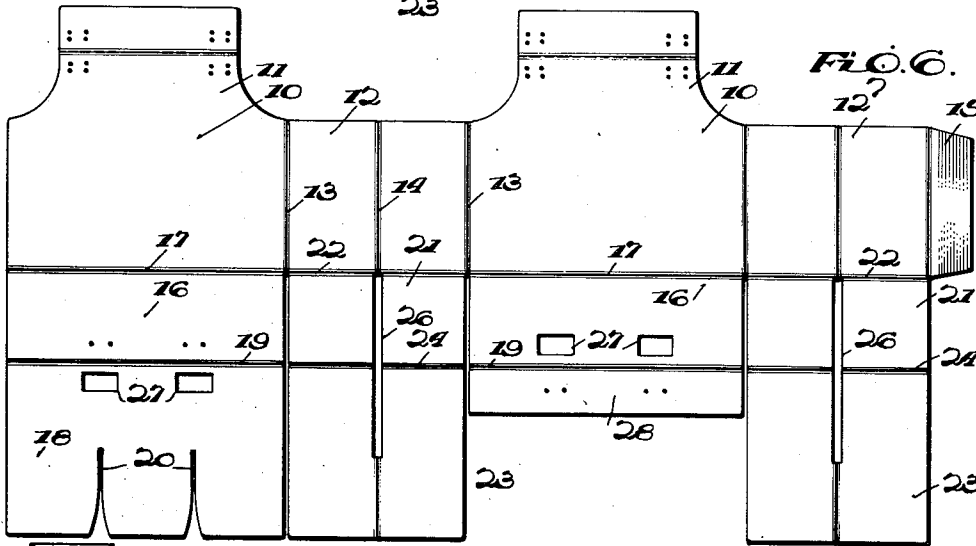
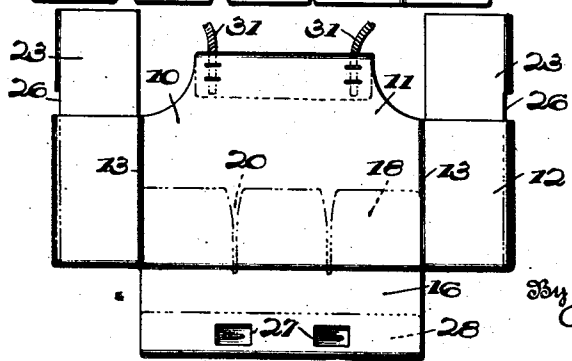


FIG. 7.



Inventor

Allen A. Gordon.

By Cameron, Kerkam & Sutton.
Attorneys

UNITED STATES PATENT OFFICE

2,294,874

BOTTLE CARRIER

Allen A. Gordon, Baltimore, Md.

Application December 26, 1940, Serial No. 371,735

1 Claim. (Cl. 229—52)

This invention relates to bottle carriers and more particularly to bottle carriers of the type adapted to receive the bottles and then be packed for transportation to the vendor in the usual cases.

More particularly still this invention relates to bottle carriers of the type stamped from a unitary blank and adapted to be shipped to the bottler in assembled but flattened condition.

It is accordingly an object of the present invention to provide a novel bottle carrier of the type adapted to be stamped from a unitary blank.

Another object of the present invention is to provide a novel bottle carrier which may be assembled and then sent to the bottler in flattened condition.

Another object of the present invention is to provide a novel bottle carrier which may be readily assembled into bottle carrying condition from its flattened condition.

Another object of the present invention is to provide a novel bottle carrier in which the partition forming elements interlock when the carrier is in bottle carrying condition to maintain the carrier in carrying condition.

Another and further object of the present invention is to provide a novel bottle carrier which is cheap to manufacture, easy to assemble, rapid to load, which affords the maximum protection for the bottle and the greatest facility and ease for carrying.

Illustrative embodiments of the present invention are shown in the accompanying drawings and described hereafter for the purposes of illustration only. These embodiments are not to be taken as a limitation of the present invention. To determine the scope of this invention reference should be had to the appended claim.

In the accompanying drawings,

Fig. 1 is a view of an illustrative embodiment of the present invention in assembled condition with the bottles in place;

Fig. 2 is a cross-sectional view of the embodiment of Fig. 1 on the line 2—2 of Fig. 1;

Fig. 3 is a cross-sectional view of the embodiment of Fig. 1 on the line 3—3;

Fig. 4 is a view of the embodiment of Fig. 1 in flattened condition;

Fig. 5 is a view of the blank from which the novel bottle carrier of Fig. 1 is formed;

Fig. 6 is a view of a blank from which another embodiment of the novel bottle carrier of the present invention is formed; and

Fig. 7 is a view of the novel embodiment of the

present invention of Fig. 6 in flattened condition.

In the several figures, in which like reference characters indicate similar parts, and with particular reference to Fig. 5, the novel bottle carrier of the present invention is formed from a single blank having side forming portions 10 provided with upstanding carrier supporting elements 11 and separated from end portions 12 by fold lines 13. End portions 12 are provided with medial fold lines 14 and one end portion 12 is provided with a suitable flap 15 designed to engage the opposite side portion 10 when the carton is assembled and to be glued or otherwise suitably secured thereto. Depending from side portions 10 are bottom forming portions 16 separated therefrom by fold lines 17. Formed continuous with bottom forming portion 16 are center partition forming portions 18 separated therefrom by fold lines 19. Partition forming portions 18 are provided with locking slots 20 to receive and lock in place suitable partition forming elements as will more fully appear hereafter.

Formed integrally with end forming portions 12 are bottom reinforcing portions 21 separated therefrom by fold lines 22. Formed continuous with bottom reinforcing portions 21 are partition forming portions 23 separated therefrom by fold lines 24 and provided with medial fold lines 25. Bottom reinforcing portions 21 and partition forming portions 23 are suitably slotted at 26.

Side forming portions 10 are provided with suitable apertures 27 for purposes which will hereafter appear.

The blank to form the novel bottle carrier of the present invention shown in Fig. 6 is similar to that shown in Fig. 5 save that apertures 27 are provided in the center partition forming portion 18 and in one bottom forming portion 16 instead of in side forming portions 10. Also in place of one partition forming portion 18 a suitable tab 28 is provided to be secured to the opposite bottom forming portion 16 when the carrier is in assembled condition.

To assemble the embodiment of the novel bottle carrier of the present invention as shown in Fig. 5, the blank is folded along the fold lines 13 to bring the side walls 10 into parallel relationship spaced apart by end walls 12. Tab 15 is then glued or otherwise suitably secured to the adjacent part of side portion 10. Thereafter bottom reinforcing portions 21 and partition forming portions 23 are folded inwardly along fold lines 22 to lie upon the inner surfaces of the end portions 12. Bottom forming portions 16,

together with center partition forming portions 18 are then folded inwardly along the fold lines 17 until they lie upon the inner surfaces of side portions 10. The carrier is then flattened along the fold lines 14 and 25 into the position shown in Fig. 4. Center partition forming portions 18 are then stapled or otherwise suitably secured together at their tops, as at 29, and secured medially through the apertures 27 by staples or other suitable fastenings, as at 30. Carrying cords 31 are then stapled or otherwise suitably secured to the upstanding portions 11 as at 31', upstanding portions 11 being folded over along the fold line 32 to provide a reinforcement before securing the carrying cords 31.

The novel bottle carrier of the present invention as shown in Fig. 6 is placed in assembled condition by folding side forming portions 10 into parallel relationship, spaced apart by end portions 12 and tab 15 is suitably secured to the opposite side forming portion 10. Bottom reinforcing portions 21 and partition forming portions 23 are then folded inwardly along fold lines 22 to lie along the inner surfaces of end forming portions 12. Center partition forming portion 18 is then folded inwardly along fold line 19. The carrier is then flattened to the condition shown in Fig. 7 and the tab 28 is suitably secured to the opposite bottom forming portion 16 by the insertion of staples or other suitable fastenings through the apertures 27. Suitable carrying cards 31 may then be secured to upstanding portions 11, reinforced if desired, all as described with reference to Fig. 5.

When it is desired to place bottles in the embodiment of the bottle carrier of Fig. 5, the flattened carrier is held with the center partition forming portions 18 pointing upwardly and the end forming portions 12 are pressed toward each other and into parallel relationship. This separates the side forming portions 10 while retaining them in parallel relationship. The partition forming portions 23 and bottom reinforcing portions 21 are then pressed inwardly and downwardly folding into right-angled relationship along the fold lines 24 and the slots 26 embrace the adjacent portions of the center partition forming portions 18 and pass downwardly into the slots 20 thereby locking themselves and the container in expanded bottle carrying condition. The bottles may then be inserted in the spaces formed between the center partition, the partition forming members 23, the side walls 10 and the end walls 12.

When it is desired to place bottles in the embodiment of the novel bottle carrier of Fig. 6, the carrier in flattened condition is held with the carrying cords 31 pointing upwardly and the end forming portions 12 are pressed toward each other and into parallel relationship. This separates the side forming portions 10 while retaining them in parallel relationship. This also forces the center partition forming portion 18 upwardly into the middle of the carrier and springs the bottom forming portions 16 into right-angled relationship with the side forming portions 10. The partition forming portions 23 and the bottom reinforcing portions 21 are then forced inwardly and downwardly, folding into right-angled relationship along the fold lines 24, the slots 26 embracing the center partition forming

portion 18 and sliding downwardly into the slots 20 to lock the partition forming portions 23 in place with respect to the center partition forming portion 18 and to lock the bottle carrier in assembled bottle carrying condition. Thereafter the bottles may be inserted as described with reference to Fig. 5.

A suitable number of these carriers may now be placed in a case and shipped to the vendor.

If desired cord carrying means 31 instead of being secured to portions 11 of side portions 10 may be secured to the center partition forming portions 18. In this case cord carrying means 31 must be so arranged as not to interfere with the infolding bottom reinforcing portions 21 and partition forming portions 23 or the locking of slots 26 with slots 20. To this end cord carrying means 31 may be secured to the middle third of center partition forming portions 18 but may be elsewhere secured if practicable.

It will now be apparent that the present invention provides a novel bottle carrier which may be formed from a single blank; which is cheap to manufacture; durable; which may be shipped in flattened condition; which may be readily assembled into bottle carrying condition; which is locked in bottle carrying condition when so assembled; which affords a maximum protection for the bottles in the carrier and one which may be readily loaded and transported.

Modifications or changes to the above described illustrative embodiment of the present invention may now be suggested without departing from the inventive concept of the present invention. To determine the scope of the present invention reference should be had to the appended claim.

What is claimed is:

A container provided with interior right angularly disposed partitions and adapted to be collapsed to flat form with the partitions within the collapsed walls, said container including side walls and end walls formed in a one piece structure with fold lines between said walls, a flap at one end of said structure permanently connected to the wall at the opposite end of said structure to complete an enclosure constituted by said four lateral walls, said side walls having tabs bent toward each other and then upwardly to provide a bottom and a partition between the end walls, said partition having locking slots, said end walls also having tabs provided with locking slots and bent toward each other and then upwardly to engage said bottom wall and form partitions between said side walls when said last named locking slots are engaged with said slots in said first named partition, each of said end walls having a fold line on its inner face whereby said end walls may be folded outwardly with the two leaves of each end wall lying in the planes of the side walls and the tab on each end wall being provided with a corresponding fold line whereby each end wall tab when disconnected from said side wall tabs may be folded away from the bottom wall and outwardly against its corresponding end wall and then inwardly folded between the leaves of its end wall, said side wall tabs being foldable against said side walls into the plane of and intermediate the leaves of the end wall tabs when the container is collapsed.

ALLEN A. GORDON.