Nov. 23, 1943. W. A. RINGLER 2,335,197

BOTTLE CARRIER

Filed Jan. 29, 1942

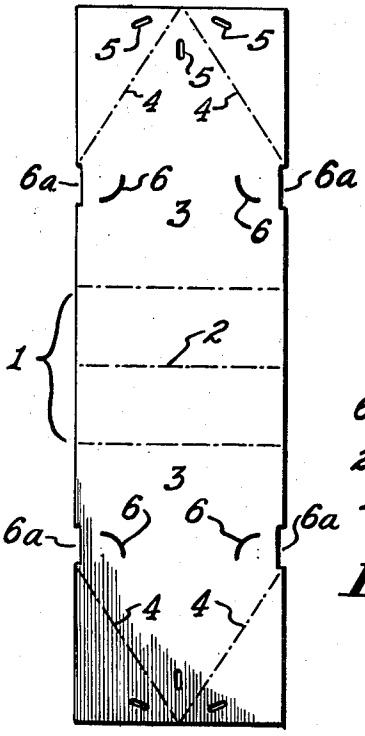


FIG. 1.

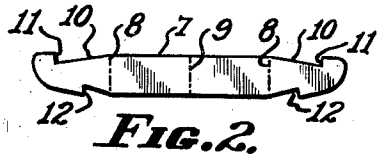


FIG. 2.

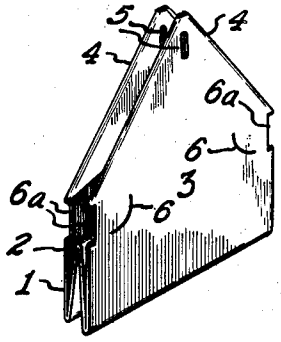


FIG. 3.

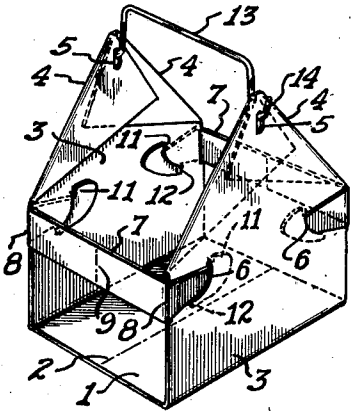


FIG. 4.

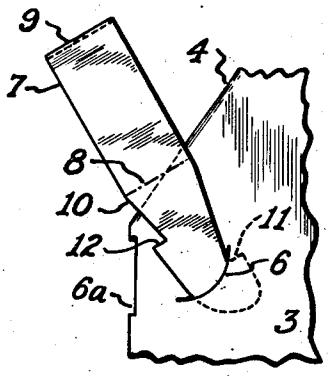


FIG. 5.

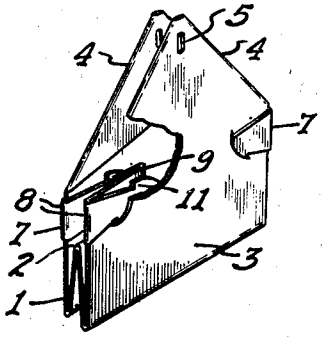


FIG. 7.

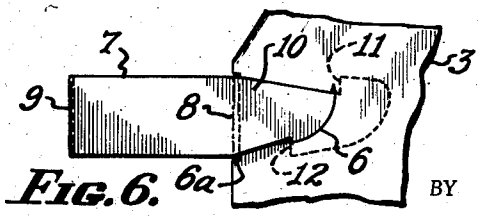


FIG. 6.

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2,335,197

BOTTLE CARRIER

William A. Ringler, Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio, a corporation of Ohio

Application January 29, 1942, Serial No. 428,708

3 Claims. (Cl. 224—45)

My invention relates to carriers for bottles, such as are used for retail stores in selling soft drinks, the usual size of the carrier being such as to take six bottles.

The primary object of my improvement is to make a bottle carrier from the minimum amount of paper board, which will be capable of being shipped in knock down form, and readily set up for use, as well as capable of reuse.

In its essence, my carrier consists of three folds of paper board with separate lateral confining straps, said straps being insertable either when making the carriers or at the time of use thereof. The carrier of my invention is of the type designed for use with a detachable handle or bail, although the detachable end strap construction would be usable with types having the side walls brought together to form a handle, leaving bottle inserting openings therein.

In the drawing,

Fig. 1 is a plan view of the cut and scored blank of the preferred form of carrier.

Fig. 2 is a plan view of one of the end straps.

Fig. 3 is a perspective of one of the carriers collapsed for shipment.

Fig. 4 is a view showing this carrier set up with the straps in place.

Fig. 5 is a detail showing the mode of insertion of the end straps.

Fig. 6 is a like view showing the final act of insertion.

Fig. 7 is a perspective of a collapsed carrier with the end straps in place.

The blank is scored to have a base portion 1, which is centrally scored at 2. The side wall members 3, 3 are scored at 4, to form triangular portions which fold inwardly on each other, there being holes 5 so located in the two triangular portions and the apex of the remaining portion of the side wall at each side of the blank, so that when the triangular portions are turned inwardly the holes will match. There are also arc-shaped slots cut in the side wall members, as at 6, two for each side wall member; and there is a narrow notch cut 6a in the margins of the side walls adjacent each of said slots. These notches permit the end straps to be inset where they cross the margins of the side walls and supply a retraint against their falling away, when the carrier is being used.

The end straps 7 are formed with scores 8, 8, defining a part the same length as the base 1 is wide, which may be scored intermediately as at 9 in order to permit of folding, as will be described. The end of the straps, as indicated at 10, are tapered outwardly from the scores 8 and then provided with staggered projecting edges to provide notches 11 and 12, the notches 11 at the furthest location from the scores 8 and the notches 12 nearer thereto.

The carrier without the notches but with the triangular portions folded inwardly and cemented, if desired, can be collapsed by bending upwardly the base on the score 2. To insert the end straps the carrier is opened up and the ends of the end straps bent on the scores 8. By inserting the ends 10 into the arc-shaped slots in adjacent side wall members so that the notches 11 catch in the upper ends of the arc-shaped slots, (Fig. 5) and then rocking downwardly so that the notches 12 catch beyond the lower ends of the arc-shaped slots (Fig. 6), it will be simple to obtain a well latched-in-place end strap at each side of the structure.

The carrier will then be in the condition shown in Fig. 4 and ready for the handle, which as shown can be a wire bail 13, having hooked ends 14. Or else the end straps can be collapsed inwardly on the score line 9, the base of the carrier collapsed upwardly on its median score, and thus the carrier with end straps mounted thereon, be shipped to point of use.

Since the notches 6a in the side wall margins serve to countersink the end straps, when in place, they are not readily dislodged or torn when in use.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. In a bottle carrier, a body portion having a base and side walls and open between the said side walls, arcuate slots located toward the lateral edges of the side walls, and separate end straps having double notched ends adapted to be rocked into engagement with the two ends of the arcuate notches, and of length to extend across between the side walls, when the carrier is erected, said straps having lines of articulation located so as to bring them closely adjacent the lateral edges of the side walls, so that said straps form with said side walls a self-sustaining structure.

2. In a bottle carrier, a body portion having a base and side walls and open between the said side walls, arcuate slots located toward the lateral edges of the side walls, and separate end straps having double notched ends adapted to be rocked into engagement with the two ends of the arcuate notches, and of length to extend across be-

tween the side walls, when the carrier is erected, said straps having lines of articulation located so as to bring them closely adjacent the lateral edges of the side walls, so that said straps form with said side walls a self-sustaining structure, said side walls having notches therein at the margins thereof, located to receive the said end straps when locked in place in the aforementioned arcuate slots and swung to position across the space between the side walls, whereby to inhibit accidental rocking motion of said straps.

3. In a bottle carrier, a body portion having a base and side walls and open between the said side walls, arcuate slots located toward the lateral edges of the side walls, and separate end straps having double notched ends adapted to be rocked into engagement with the two ends of the arcuate notches, and of length to extend across between the side walls, when the carrier is erected, said straps having lines of articulation located so as to bring them closely adjacent the lateral edges of the side walls, so that said straps form with said side walls a self-sustaining structure, the base being scored and the end straps scored so as to fold inwardly of the carrier in collapsing of the same into a flat package.

WILLIAM A. RINGLER.