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W. HAUGNER

2,363,180

BOTTLE CARRIER

Filed April 28, 1944

Fig. 1.

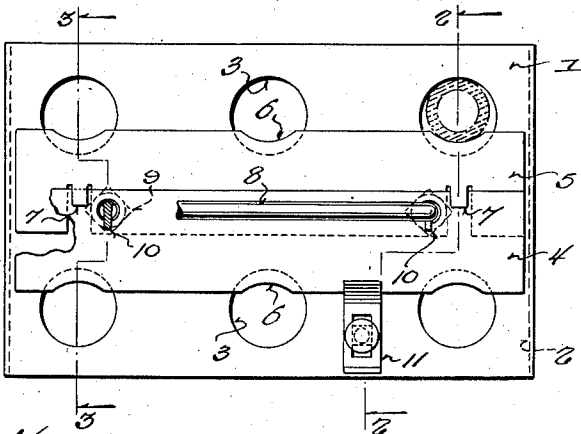


Fig. 4.

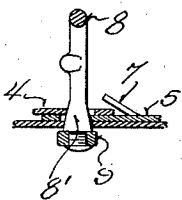


Fig. 2.

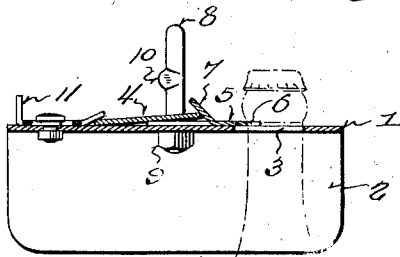
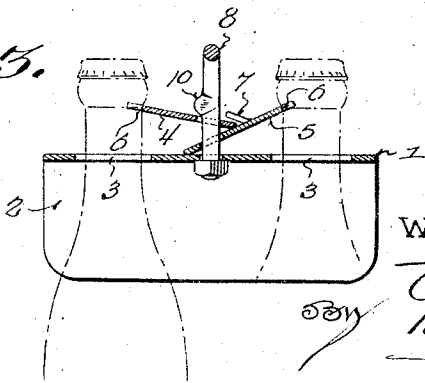


Fig. 3.



Inventor:

William Haugner

By *Wm. H. Wright*
Attorney

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BOTTLE CARRIER

William Haugner, Fond du Lac, Wis.

Application April 28, 1944, Serial No. 533,124

2 Claims. (Cl. 294—87)

My invention refers to bottle carriers and it has for its object to provide a simple, durable and economical bottle holder for use in carrying a group of bottles from the retail sales store to the customer's dwelling, the carrier being adapted to be slipped over a group of bottles within a case, whereby said group is clutched at the head of a group of bottle heads, whereby said group is lifted from the case and carried by the customer without further handling.

With the above and other minor objects the invention consists in certain peculiarities of construction and combination of parts as will be hereinafter set forth with reference to the accompanying drawing and subsequently claimed, in which drawing:

Figure 1 represents a plan view of my carrier.

Figure 2 is a cross section of the same, the section being indicated by line 2, 2 on Figure 1.

Figure 3 is another cross section of the carrier as indicated by line 3, 3 of Figure 1; and

Figure 4 is a detailed sectional elevation of a modified form of connection between the carrier plate and handle.

Referring by characters to the drawings, 1 indicates a flat plate having down-turned end aprons 2, which aprons serve as guides over a group of bottles and also are adapted to receive advertising matter, it being understood that the bottles to be handled are usually of the soft-drink type. Although any container bottles may be handled.

The plate 1 is provided with rows of circular openings 3 at its edges through which the necks of the bottles extend as indicated in dotted lines.

Centrally mounted upon the plate 1 is a pair of gripping wings 4, 5 which wings are in loose hinge connection upon the plate.

The outer edges of the wings are provided with curved notches 6 aligned with the plate openings 3.

The inner edges of the wings are centrally lapped and the lower wing 5 is provided with offset tongues 7 which extend over the edge of the wing 4 to form a shackle connection between the wings.

The wings are also provided with aligned apertures, at their overlapped portions, through which apertures the legs 8 of a handle extend whereby the hinge or shackle connection is anchored.

The legs 8 also extend through apertures in the plate 1 and their ends are secured below the plate by upset heads or nuts 9.

A suitable distance above the hinged wings,

the legs 8 carry closing lugs 10, which lugs are adapted to flatten out the hinged wings, upon a downward movement of the handle, to insure a firm grip upon the necks of the bottles just below the head portions. However, under ordinary conditions the wings may assume their bottle locking positions, by gravity, incidental to lifting of the plate by the handle, as indicated in Figure 2 of the drawing.

From the foregoing description it is apparent that the carrier may be readily slipped over the heads of a group of bottles, as indicated in Figure 3 of the drawing. Thereafter, to insure gripping of the bottle necks, the handle may be depressed whereby the lugs 10 will flatten out the wings, as indicated in Figure 2 and the handle, upon being lifted, will bring its heads 9 into engagement with the bottom surface of the plate and upon further lifting movement, the entire group of bottles will be extracted from the case. The bottles thus gripped by the heads can readily be transported from place to place and when it is desired to disconnect the carrier from the group of bottles, which are resting upon a surface, the wings can be manually swung in an upward direction.

In some instances, as indicated in Figures 1 and 2, the wings may be firmly secured in their locking positions against the necks of the bottles between the walls of the notches 6 and outer edges of the openings 3, by a slidable latch 11 carried by the plate for engagement with the outer edge of the wing 4.

In order to insure a positive gripping connection between the wings and outer edges of the plate openings, as indicated in Figure 4, I may provide a tapered or conical base 8'. Hence when the handle is carrying the load of bottles the face of the wedge 8' will engage the openings in the wings and exert a wedging action upon said wings whereby the weight load is directly exerted in the gripping action of the bottle necks to prevent inadvertent release of the same.

While I have shown one exemplification of my invention minutely as to details, it is understood that I may vary the structural features within the scope of the claims, and what I claim as new is:

1. A bottle carrier comprising a plate having rows of openings at its edges, down-turned end aprons extending from the plate, a pair of centrally disposed shackle connected bottle-gripping wings having outer notched edges aligned with the plate openings and overlapped inner edges,

tongues extending from the inner edges of one wing engaging the associated edge of the other plate, whereby the wings are loosely hinged, the said wings being provided with aligned apertures at their overlapped portions, and a reciprocative handle having legs extending through the wing openings and retaining heads at the ends of the legs.

2. A bottle carrier comprising a plate having rows of openings at its edges, down-turned end aprons extending from the plate, a pair of cen-

trally disposed shackle connected bottle-gripping wings having outer notched edges aligned with the plate openings and overlapped inner edges, tongues extending from the inner edges of one wing engaging the associated edge of the other plate, whereby the wings are loosely hinged, the said wings being provided with aligned apertures at their overlapped portions and lugs carried by the handle legs for engaging the wings.

WILLIAM HAUGNER.