Feb. 28, 1950

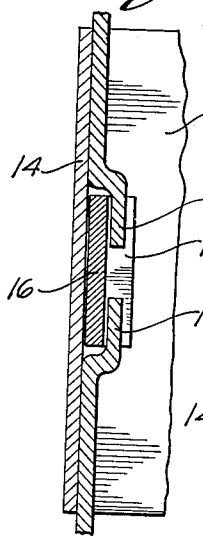
W. M. BASSICHIS

2,499,126

BOTTLE CARRIER

Filed Oct. 4, 1945

Fig. 4



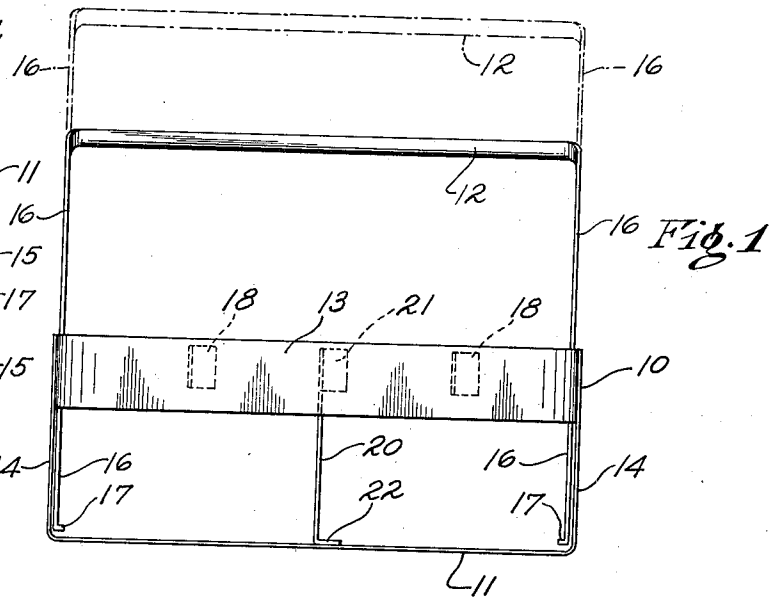
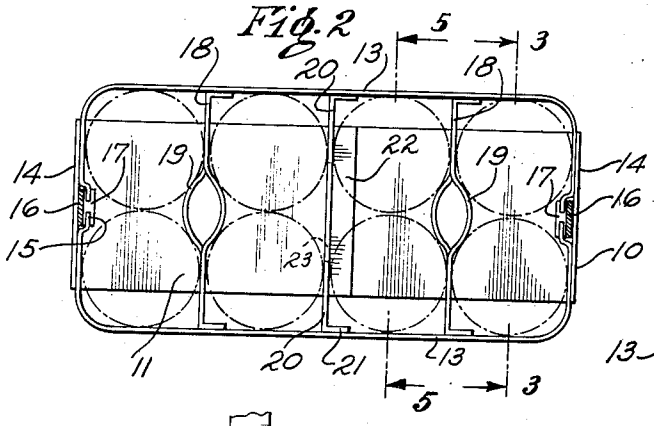


Fig. 1

Fig. 2



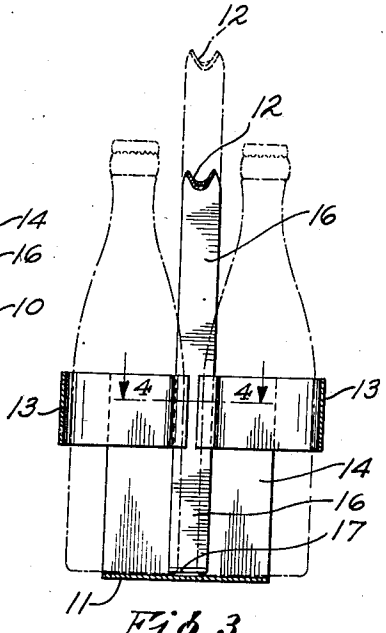


Fig. 3

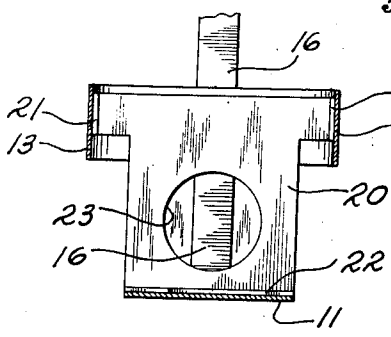


Fig. 5

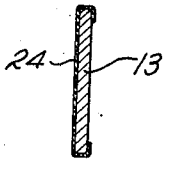


Fig. 6

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BOTTLE CARRIER

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Application October 4, 1945, Serial No. 620,326

7 Claims. (Cl. 224—48)

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This inventon relates broadly to bottle carriers and more specifically to improvements in carriers of the type that are formed from fabricated strips of sheet steel.

One of the objects of the invention is to provide a carrier that comprises generally, a rectangular frame formed to encompass a plurality of bottles and a cradle depending therefrom for the support of the base portions of the bottles, the width of the strips forming the side walls of the carrier frame and the width and disposition of the base of the cradle being proportioned relative to each other and the bottle separation in the frame to prevent removal of the bottles through the opening between the sides of the frame and base of the cradle.

Another object of the invention is to construct a carrier from strips of relatively thin sheet metal stock and to reinforce the carrier formed therefrom by cross members arranged to unite certain parts of the carrier and further arranged to form separators for the bottles.

Another object of the invention is to provide flanges in the contiguous ends of the strips forming the sides of the carrier and to assemble the side members upon the arms of the cradle strip so that the flanged portions of the side rails will provide guideways for the carrier handle.

Another object of the invention is to provide a structure in which a portion of the load carried by the base or cradle of the carrier will be imposed in edgewise relation upon the strips forming the side rails of the carrier.

Another object of the invention is to provide an advertising display strip which is adapted for ready adfixture to or removal from the strips forming the carrier side rails.

Further objects of the invention reside in the provision of a carrier which is attractive of appearances, sturdy of structure, light in weight and economic of manufacture.

Other objects and advantages more or less ancillary to the foregoing and the manner in which all the various objects are realized will appear in the following description, which considered in connection with the accompanying drawings, sets forth the preferred embodiment of the invention.

Referring to the drawing:

Fig. 1 is a side elevational view of the improved carrier,

Fig. 2 is a plan view thereof, the handle shown in Fig. 1 being broken away and shown in section in the interest of clarity,

Fig. 3 is a vertical sectional view of the carrier,

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the section being taken on a plane indicated by the line 3—3 in Fig. 2,

Fig. 4 is a transverse sectional view through an end portion of the carrier, the section being taken on a plane indicated by the line 4—4 in Fig. 3,

Fig. 5 is a transverse section through the central portion of the carrier, the section being taken on a plane indicated by the line 5—5 in Fig. 2, and

Fig. 6 is a vertical section through one of the side rails of the carrier having a display strip mounted thereon, the illustration showing the preferred structure and method of assembly.

Referring first to Fig. 1 the bottle carrier comprises generally a rectangular band 10, a cradle 11 depending from the end walls thereof and bail or handle 12 mounted for vertical sliding movement thereon. The band 10 is formed from a pair of similar sheet metal strips 13 welded or otherwise affixed to the vertical arms 14 of a U strap constituting the cradle 11. The contiguous ends of the strips 13 are bent outwardly and inwardly to form a channel 15 for the retention of the upright arms 16 of the bail 12. The free ends of the arms 16 are bent inwardly to form stops 17 engageable with the lower faces of the flanges defining the channel 15. The rectangular band 10 is provided with a plurality of transversely disposed bottle separators 18 having flanges on the end portions thereof which are welded or otherwise secured to the inner faces of the band. The separators are formed with laterally distented arcuate sections 19 intermediate their ends which are proportioned to prevent undue lateral movement of the bottles disposed adjacent thereto. One or more of the separators 18 may be formed from a plate 20 having opposed flanges 21 thereon which are affixed to the strips 13 and a second flange 22 in the base thereof which is secured to the upper face of the U strap 11. The plate 20 is preferably fabricated with a relatively large opening 23 in the center thereof which is provided to lighten the weight of the carrier.

It will be recognized that the plate 20 will not only form a bottle separator but will also reinforce the rectangular frame formed by the band 10 and in addition support the base of the U strap 11 since the load imposed upon the strap 11 will be partially borne by the vertical wall sections of the band 10. The width of the strap forming the base of the cradle 11 is proportioned relative to the diameter of the bottles, the disposition of the separators and the height of the cradle to the lower edges of the band 10 so that the bottles cannot be removed through the opening defined

by the lower edges of the band and outer edges of the cradle.

As shown in Fig. 6 the carrier may be provided with a thin metal plate 24 which is lithographed with advertising matter thereon. The length of the plates is substantially equal to the flat portion of the strips 13 the blanked width thereof being slightly larger than the width of the strips 13 so that the marginal edges of the plates may be folded and bent over the strips in self-sustained engagement. Obviously other materials such as Celluloid or paper may be used in substitution for the metal plates and it is to be understood that such substitution is contemplated as falling within the scope and spirit of the present invention.

Although the foregoing description is necessarily of a detailed character, in order that the invention may be completely set forth, it is to be understood that the specific terminology is not intended to be restrictive or confining, and that various rearrangements of parts and modifications of detail may be resorted to without departing from the scope or spirit of the invention as herein claimed.

I claim:

1. A bottle carrier comprising a pair of U strips arranged to form a rectangular band designed to encompass a plurality of bottles, a cradle affixed to and depending from the end walls thereof for the support of the base portions of the bottles, the free ends of said U strips being bent inwardly and laterally and constituting rectangular guideways, a bail, vertical arms of rectangular cross section thereon engaged in said guideways, shoulders on the free ends of said arms engageable with the bottom portions of the walls of the U strips that define the guideways, and bottle separators in said rectangular band uniting the opposed side walls thereof, one of said separators uniting the base of the cradle with the side walls.

2. A bottle carrier comprising a sheet metal band configured to embrace a plurality of bottles disposed in a rectangular array, a strip adapted to underlie and support the said bottles and formed with upturned end portions affixed to the said band, and a metal plate adapted to separate the bottles within the band, the plate being fixed to the bottle supporting portion of the strip and to the band.

3. A bottle carrier comprising a sheet metal band configured to embrace a plurality of bottles disposed in a rectangular array, a strip adapted to underlie and support the said bottles and formed with upturned end portions affixed to the said band, and a metal plate adapted to separate the bottles within the band, the plate being substantially perpendicular to the bottle supporting portion of the strip and being fixed thereto and to the band, so as to support the strip intermediate its ends from the band and reinforce the band by connection to the strip.

4. A bottle carrier comprising a pair of U strips arranged to form a generally rectangular band designed to encompass a plurality of bottles, a cradle affixed to and depending from the end walls thereof for the support of the base portions of the bottles, the free ends of said U strips being bent to constitute guideways in cooperation with the cradle, a bail, vertical arms thereon engaged in said guideways, projections on the free ends of said arms engageable with the bottom portions of the walls of the U strips that define the guideways, and a bottle separator in said rectangular band uniting the opposed side walls thereof and uniting the base of the cradle with the side walls.

5. A bottle carrier comprising a support member formed with upturned ends, two generally U-shaped strips fixed to the ends of the member so as to form a band to encompass and retain bottles on the support member, the ends of the strips being opposed and being offset from the member so as to define a guideway between the member and the strips, a carrying handle comprising generally vertical portions slidable within the guideways and means to prevent withdrawal of the handle from the guideways, and a bottle separator of sheet metal transverse to the support member and fixed to the support member and to the central portions of the U-shaped strips.

6. A bottle carrier comprising a rectangular frame of strip steel, the frame defining end and side walls adapted to confine a group of bottles, a cradle suspended from the end portions of the frame disposed to support the bottoms of the bottles, a substantially vertical plate extending from the central portion of the cradle to the central portion of the side walls of the frame and fixed to the cradle and side walls, the plate being adapted to separate bottles in the carrier and to increase the vertical rigidity of the cradle and the lateral rigidity of the side walls, and a supporting handle for the carrier.

7. A bottle carrier comprising a rectangular frame of strip steel, the frame defining end and side walls adapted to confine a group of bottles, a cradle suspended from the end portions of the frame disposed to support the bottoms of the bottles, a substantially vertical plate extending from the central portion of the cradle to the central portion of the side walls of the frame and fixed to the cradle and side walls, the plate being adapted to separate bottles in the carrier and to increase the vertical rigidity of the cradle and the lateral rigidity of the side walls, and a supporting handle for the carrier attached to the ends of the carrier.

WILLIAM M. BASSICHIS.

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