

Oct. 10, 1950

G. A. ARNETT
BOTTLE CARRIER

2,525,633

Filed March 15, 1948

2 Sheets-Sheet 1

Fig. 1.

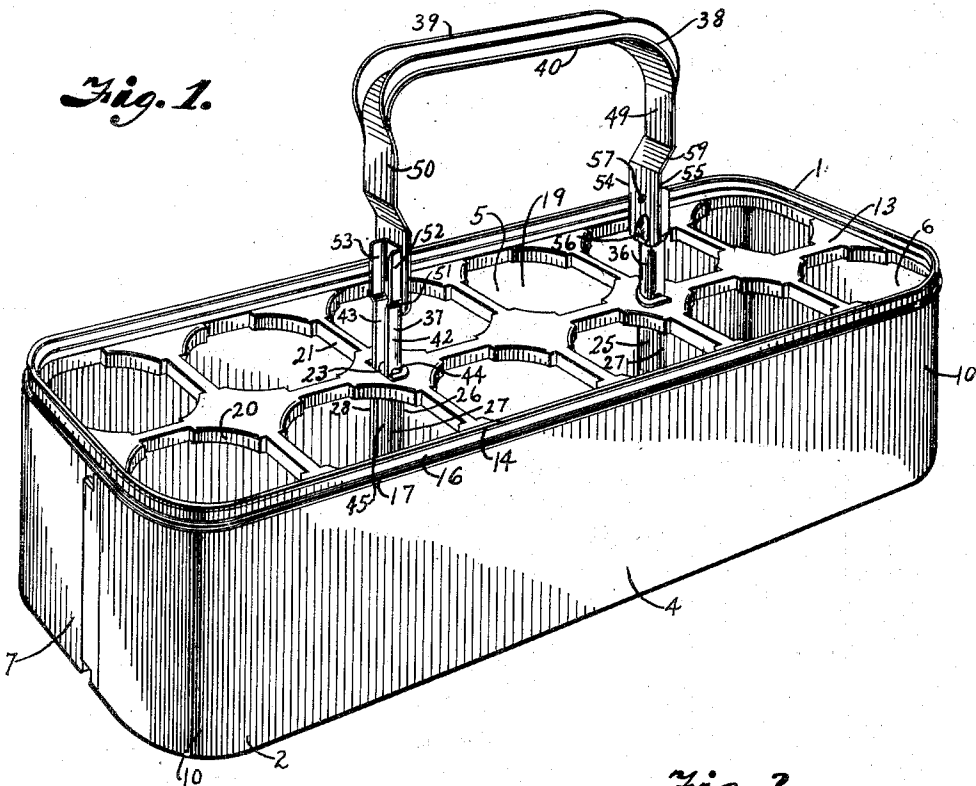
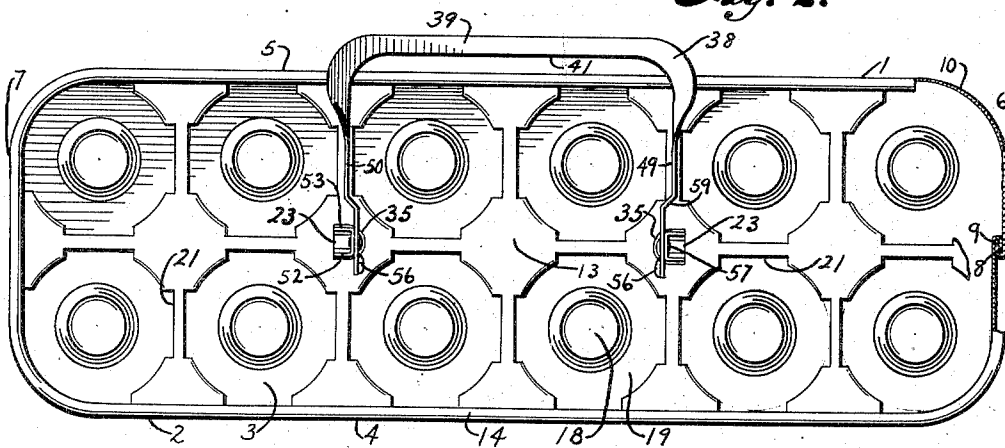


Fig. 2.



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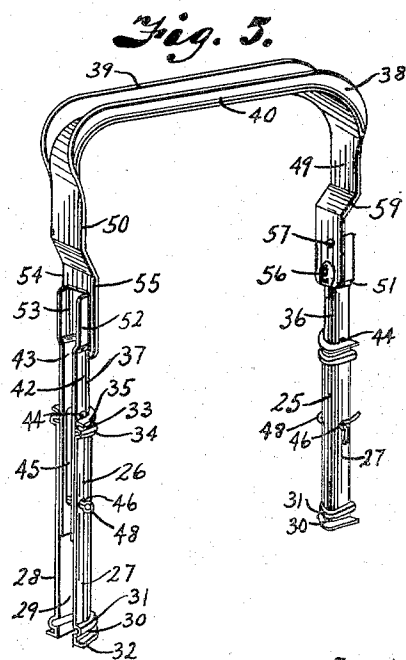
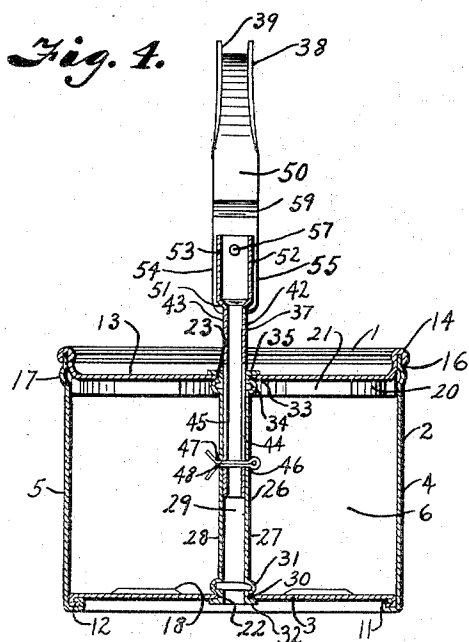
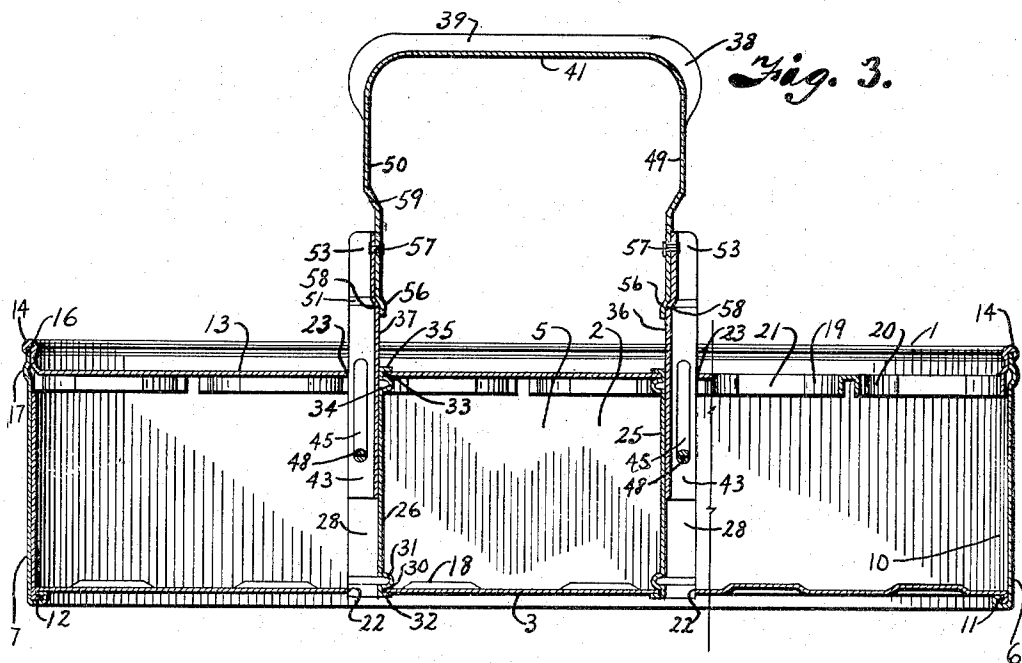
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2,525,633

BOTTLE CARRIER

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Application March 15, 1948, Serial No. 14,889

1 Claim. (Cl. 224—48)

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This invention relates to a bottle carrier and is particularly adapted for bottles containing soft drinks, milk or the like.

The principal object of the invention is to provide a device for accommodating a plurality of bottles having a body portion adapted to receive two parallel rows of bottles and a handle between the rows, the handle being movable upwardly and downwardly, the handle being moved upwardly for carrying the device and moved downwardly between the necks of the bottles so that the carriers containing the bottles may be stacked one on top of the other for storage, and also pivoted laterally to be out of the way for loading or unloading the carrier.

Other objects of the invention are to provide a device of this character which is inexpensive to manufacture and efficient for the purpose desired; to provide a device having a bottom with raised portions to engage the bottom of the bottles to prevent such bottles from contacting each other; to provide a device having a top portion with openings for receiving the bottles and to prevent the necks of the bottles from contacting each other; to provide a device of this character in which the bottles can be easily and quickly placed; to provide space in said openings for reception of the loading and unloading mechanism for the bottles; to provide a device of this character having a detachable handle member, and to provide a carrier of light weight and readily transportable.

Referring more in detail to the drawings:

Fig. 1 is a perspective view showing my bottle carrier.

Fig. 2 is a top plan view of the device with parts broken away to better illustrate the construction.

Fig. 3 is a section longitudinally through the carrier.

Fig. 4 is a transverse cross-sectional view through the carrier.

Fig. 5 is a perspective view of the posts and handle forming part of the present invention.

Referring more in detail to the drawings:

1 designates a bottle carrier embodying the features of my invention having a body 2 consisting of a bottom 3, sides 4—5, and ends 6—7. The body is preferably made of sheet metal although any material may be used such as fiberboard, plastic or the like. The sides 4 and 5 are made in two pieces and have their respective ends turned backwardly to form flanges 8 and 9 which are interlocked and pressed together as best illustrated in Fig. 2. The body is here shown to

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be substantially rectangular in shape and has rounded corners 10. The bottom edges of the sides 4 and 5 are turned inwardly and bent back upon themselves forming flanges 11 and 12 and a channel in which the bottom 3 by turning the bottom plate downwardly and inwardly engage, as best illustrated in Fig. 4. The flanges are pressed together forming a rigid structure.

A top 13 is also made from a piece of sheet material and is inset in the open top of the side and end portions of the body. The top has its outer edge rolled outwardly and downwardly as indicated at 14 (Fig. 4), and is adapted to engage over the upper edge of the side and end portions as indicated at 16 (Fig. 4). The upper edges of the side and ends are curved outwardly and inwardly as indicated at 17. The inside of the top portion is also bent and pressed into the groove around the inside of the top of the body portion to form a beard around the top to make rigid structure.

The body here illustrated is shown in rectangular shape and is adapted to accommodate twelve bottles in rows of six each. The bottom plate 3 is provided with a plurality of raised portions 18 arranged in rows longitudinally of the body and adapted for engaging the bottom of the bottles placed in the carrier. Usually such bottles have upwardly dished bottom portions and the portions 19 engage in the recesses of the bottoms of the bottles to prevent the bottles from contacting each other at the base thereof.

The top plate 13 is also provided with a plurality of openings 19 formed by cutting out the top plate. These openings are in line with the raised portions 18 in the bottom of the carrier. The bottles extend through the openings 19 when they are placed in the carrier and are supported by the bottom 3. The openings 19 are provided with downturned flanges 20 so as to form a smooth surface for the bottles. The openings are so situated as to prevent the bottles from contacting each other to prevent breaking and marring thereof.

The top 13 is provided with a plurality of recesses 21 around the periphery of the openings 19 so that mechanism (not shown) may be inserted in the recesses to engage the bottles for loading or unloading the carrier.

The bottom 3 is provided with spaced openings 22 and the top 13 is provided with spaced openings 23 in alignment with the openings 22 to receive posts or standards 25 and 26. The posts are made of sheet metal and bent in the form of a U-shape having sides 27 and 28 and channel-

ways 29. The lower ends of the posts have grooves 30 on their outer periphery formed by rolling the lower end of the posts as indicated at 31 and turning of the ends to form a flange 32 as best illustrated in Fig. 5. The grooves 30 are adapted to engage the edge of the bottom 3 formed by the openings 22. The roll 31 and flange 32 are pressed together to rigidly secure the posts in the openings. The upper ends of the posts are also provided with grooves 33, a roll portion 34 and flange 35. The groove 33 is adapted to engage the edges of the top 13 formed by the openings 23 and the rolls 34 and flange 35 pressed together to rigidly secure the top plate to the upper ends of the posts.

The channelways 29 of the posts 25 and 26 are adapted to receive U-shaped shank portions 36 and 37 of a handle member 38. The handle 38 is also made of sheet metal and the cross member 39 rolled in substantially U-shape, the lower sides being rounded as indicated at 40 to provide a smooth hand surface 41.

The shanks 36 and 37 of the handle are movable upwardly and downwardly in the channels 29 of the posts 25 and 26. The sides 42 and 43 of the U-shaped shanks are provided with slots 44 and 45. The sides 27 and 28 of the posts are provided with openings 46 and 47 adapted to receive cotter pins or the like 48 which extend there-through and also through the grooves 44 and 45 in the shanks of the handle to retain the shanks in the posts and allow the shanks to slide upwardly and downwardly in the channel members 29.

The handle 38 has arms 49 and 50 having their lower ends pivoted to the upper end of the shanks 36 and 37 so that the handle will fold laterally of the shanks in either direction to lie flat across the top 13 as best illustrated in Fig. 2. The upper ends of the shanks 36 and 37 are flared outwardly and flattened as indicated at 51 forming side flanges 52 and 53. The arms 49 and 50 of the handle are flat and their lower ends are curved slightly forming side flanges 54 and 55 the lower edges being turned slightly inwardly as indicated at 55 so that the channel portion of the ends of the arms engage the flattened portion of the upper ends of the shanks and are pivotally secured thereto by rivets or the like 57. The inwardly curved portion 56 of the arms engaging a shoulder 58 on the shanks to form a friction contact to hold the handle normally in upright position. The arms 49 and 50 of the handle are offset as indicated at 59 so that the handle will pass over the tops of a pair of bottles as illustrated in Fig. 2

and so that the loading mechanism (not shown) will pass through the handle.

While I have here illustrated and described a carrier in substantially rectangular shape and adapted to accommodate twelve bottles, it will be obvious that other shapes may be used and also the device may be adapted to carry any number of bottles.

It is further obvious from the foregoing that I have provided an improved carrying device which may be quickly and easily assembled, which is simple, economical and efficient in operation and particularly a carrier having a removable handle member and slidable upwardly and downwardly to allow stacking of the carriers one on top of the other when they are filled with bottles.

What I claim and desire to secure by Letters Patent is:

A bottle carrier comprising a body having sides and ends, a bottom and top, said top having openings therein for receiving the bottles to be carried, said sides and ends being formed from a single sheet of material and said top and bottom being secured thereto by crimping the edges together, said bottom and top having spaced aligned openings, U-shaped posts having their respective ends secured in said openings in said bottom and top, said U-shaped posts forming channelways, shanks forming extensions for said posts, a U-shaped handle, pivotally attached to the upper ends of said shanks, said shanks being U-shaped and extending through the top and engage in said channelways of the posts, said posts having openings in the sides of the U-shaped portions substantially midway of the posts, the sides of the shanks of the U-shaped handle having longitudinal slots, and a pin adapted to engage in said openings in the posts and through the slots in the shanks of the handle to slidably secure the handle to the posts, said handle being foldable downwardly between the necks of bottles in the carrier.

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