Nov. 27, 1934. M. J. WEST 1,982,276

BOTTLE CARRIER

Filed Oct. 26, 1932

Fig. 1.

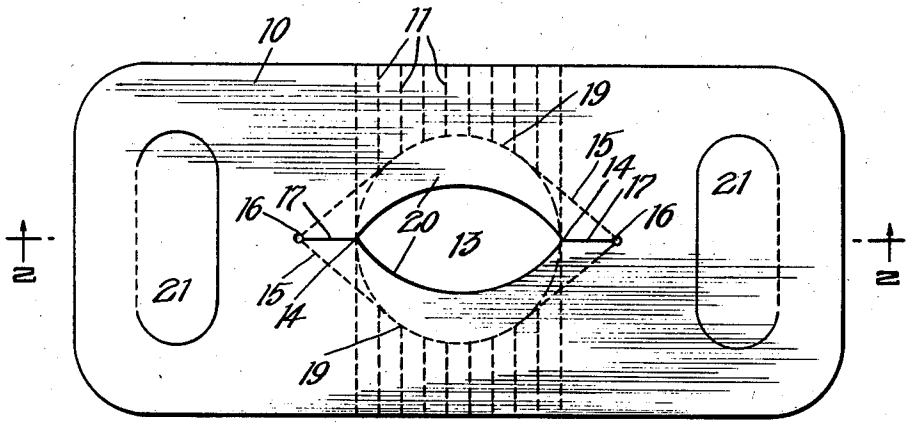


Fig. 2.

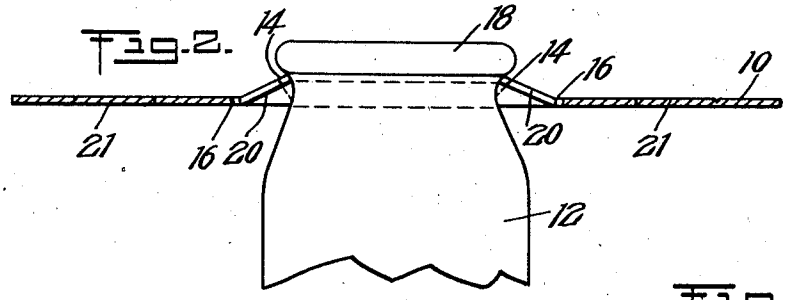


Fig. 3.

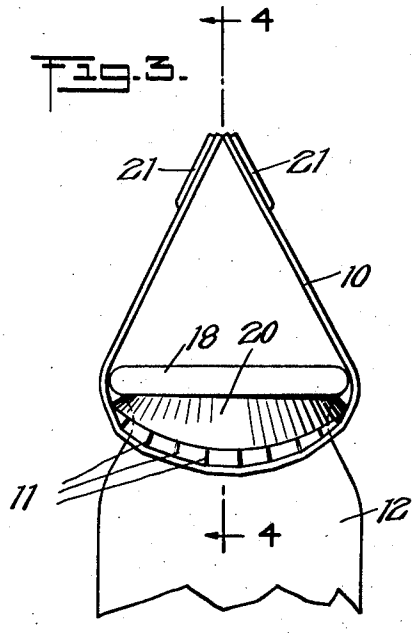
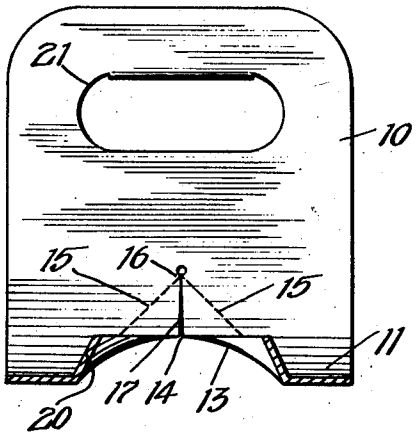


Fig. 4.



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Patented Nov. 27, 1934

1,982,276

UNITED STATES PATENT OFFICE

1,982,276

BOTTLE CARRIER

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Application October 26, 1932, Serial No. 639,569

7 Claims. (Cl. 215—100)

This invention relates to a bottle carrier, and more particularly for carrying bottles containing milk or the like.

Among the principal objects which the present invention has in view are: To provide a carrier constructed of a durable material and adapted to snugly fit the neck of a bottle; to provide means in the carrier whereby the same may be easily carried when applied to a bottle; to provide a carrier which may conveniently be fitted to a bottle; to provide a carrier which when fitted to a bottle cannot be readily removed; to secure a more positive fit to a bottle when carrying the bottle; to secure simplicity of construction, operation and at a minimum cost to manufacture; and to obtain other advantages and results as may be brought out in the following description.

In the drawing:

Figure 1 is a plan view of the carrier before applied to a bottle;

Figure 2 is a sectional view taken on line 2—2 of Figure 1 and showing the same applied to a bottle;

Figure 3 is an end view and showing the carrier in carrying condition with the bottle; and

Figure 4 is a cross sectional view taken on line 4—4 of Figure 3.

As seen in the drawing, the reference numeral 10 indicates a carrier to be used as the means for easily transporting a bottle of milk or the like. Said carrier is preferably constructed of heavy cardboard or other similar flexible material and is provided with a number of crease lines across the same at a mid part thereof as indicated by dotted lines 11 of Figure 1. Said crease lines in practice permit bending the outer ends upwardly towards each other to meet when desired, particularly when the carrier has been properly adjusted to the neck of a bottle 12 as clearly shown in Figure 3.

Midway and centrally of the carrier 10 is provided a socket or cut-out portion 13 of approximately elliptical shape such that at the ends of the long axis the edges meet at points of divergence 14, 14. Furthermore, the long axis of the cut-out portion or socket is lengthwise with respect to the carrier and transverse to the crease lines 11. Outside of the socket, the material is creased as at 15, 15, approximately parallel to the edges of the socket, these creases also meeting at points of divergence 16, 16 on the longer axis of the approximately elliptical configuration thereof.

From adjacent points of divergence of these creases and the socket, the material is slit, as at 17, 17, for enabling the device to be applied readily over bead 18 at the upper end of the milk bottle 12 or the like to be carried.

Connecting creases 19 between the outer creases 15, 15 and the points of divergence 14, 14 of the socket combine with said outer creases in the present showing to obtain an approximate circle. It is to be understood that the socket dimensions are such that transversely of the carrier the axial dimension is less than the diameter of the neck of the bottle to be carried, whereas in the direction longitudinally of the carrier the socket dimension substantially equals the diameter of the bottle neck.

In use, the carrier is forced downwardly over the neck of the bottle 12 under the bead 18 thereof, and in so doing, the carrier is distorted, the creases and slits enabling the portion of the material or flanges 20 within the outside creases to bend upward. The edges of the socket 13 will accordingly grip the bottle neck and cannot turn downward because of the presence of the neck in the socket. Greater security for the bottle is obtained by bending the ends of the carrier 10 upwardly toward each other above the bottle, as indicated in Figure 3. This position of parts locks the flanges 20 in upwardly directed position.

The outer ends of the carrier may be provided with a suitable hand-hold, such for instance, as the openings 21, 21. The material may be split part way around the intended openings 21, 21 and bent outwardly for the remaining part so as to obtain a double thickness of material at that part. By having this folded part of the material toward the outer ends of the carrier nearest the opening, the folded part provides a hand-engaging portion while the carrier is being used to transport a bottle, and accordingly will not cut. Another advantage of the said hand-engaging portion may be that the carrier holding the bottle can be placed on a hook or the like and permitted to hang therefrom and away from the floor.

In view of the construction of flanges 21 prevented from being turned downward while on the bottle, it will be observed that difficulty will be experienced in removing the carrier 10 without destroying the same, and this is a desirable feature so that a dealer cannot use a carrier over again.

I claim:

1. A carrier for bottles or the like comprising a sheet of material adapted to be bent at a middle part thereof, and having an opening at the

said middle part which opening has an irregular shape with a lesser dimension transverse of the carrier, said opening having deflectable marginal portions for engagement with the neck of a bottle when applied thereto, the said irregular shape of the opening enabling the carrier to be bent transversely with respect to the larger dimension of said opening and thereby lock the deflected marginal portions in bottle-engaging position so long as said carrier is transversely bent and permitting instant release of the bottle when said carrier is straightened.

2. A carrier for bottles or the like comprising a sheet of material adapted to be bent at a middle part thereof, and having an opening at the said middle part which opening has an irregular shape with a pair of radiating slits from the opening thereby enabling the carrier to be bent transversely of said slits with marginal portions about the opening deflected into engagement with the neck of a bottle when applied thereto, and said deflected portions being locked in deflected position by the bending of said carrier and released by straightening said carrier.

3. A carrier for bottles or the like comprising a sheet of material adapted to be bent at a middle part thereof, and having an opening at the said middle part which opening has an irregular shape with creases substantially surrounding said opening whereby marginal portions about said opening will be deflected when the carrier is applied to a bottle, the said irregular shape of the opening enabling the carrier to be bent transversely with respect to the larger dimension of said opening and thereby lock the deflected marginal portions in bottle-engaging position so long as said carrier is transversely bent and permitting instant release of the bottle when said carrier is straightened.

4. A carrier for bottles or the like comprising a sheet of material adapted to be bent at a middle part thereof, and having an opening at the said middle part which opening has an irregular shape with creases substantially surrounding said opening and with a pair of radiating slits from the opening to the creases thereby enabling the carrier to be bent transversely of said slits with marginal portions about the opening deflected into engagement with the neck of a bottle when applied thereto, and said deflected portions being locked in deflected position by the bending of said carrier and released by straightening said carrier.

5. A carrier for bottles or the like comprising a sheet of material adapted to be bent at a middle part thereof, and having an opening at the said middle part which opening has an irregular shape with a lesser dimension transverse of the carrier and a longer dimension longitudinally of the carrier, said carrier also having creases substantially surrounding said opening whereby marginal portions about said opening will be deflected when the carrier is applied to a bottle, the said irregular shape of the opening enabling the carrier to be bent transversely with respect to the larger dimension of said opening and thereby lock the deflected marginal portions in bottle-engaging position so long as said carrier is transversely bent and permitting instant release of the bottle when said carrier is straightened.

6. A carrier for bottles or the like comprising a sheet of material adapted to be bent at a middle part thereof, and having an opening at the said middle part which opening has an irregular shape, said opening having deflectable marginal portions for engagement with the neck of a bottle when applied thereto, the said irregular shape of the opening enabling the carrier to be bent transversely with respect to the larger dimension of said opening and thereby lock the deflected marginal portions in bottle-engaging position so long as said carrier is transversely bent and permitting instant release of the bottle when said carrier is straightened, said carrier also having end openings for simultaneously carrying both ends of the carrier and retain the ends bent upwardly toward each other over the bottle both for carrying the carrier and bottle, and for locking the deflected marginal portions in bottle-engaging position while the bottle is being carried.

7. A carrier for bottles or the like comprising a sheet of flexible material having a substantially elliptical opening in the middle thereof and a plurality of crease lines adapted to bend said carrier upwardly midway thereof, said opening having a pair of slits diverging outwardly lengthwise of said opening and transverse of said crease lines, a second series of crease lines outside and substantially parallel to the edges of said opening, said crease lines meeting each other at the outer ends of the slits, and other crease lines converging from said second series of crease lines and intersecting each other at the points of intersection of the slots and opening for providing deflectable portions around said opening whereby an approximate circle is obtained and permit easily placing the said carrier over the neck of the bottle and assume a shape approximately the same as that of the neck of said bottle.

MERLE J. WEST.