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BOTTLE CARRIER

Filed June 24, 1932

Fig. 1

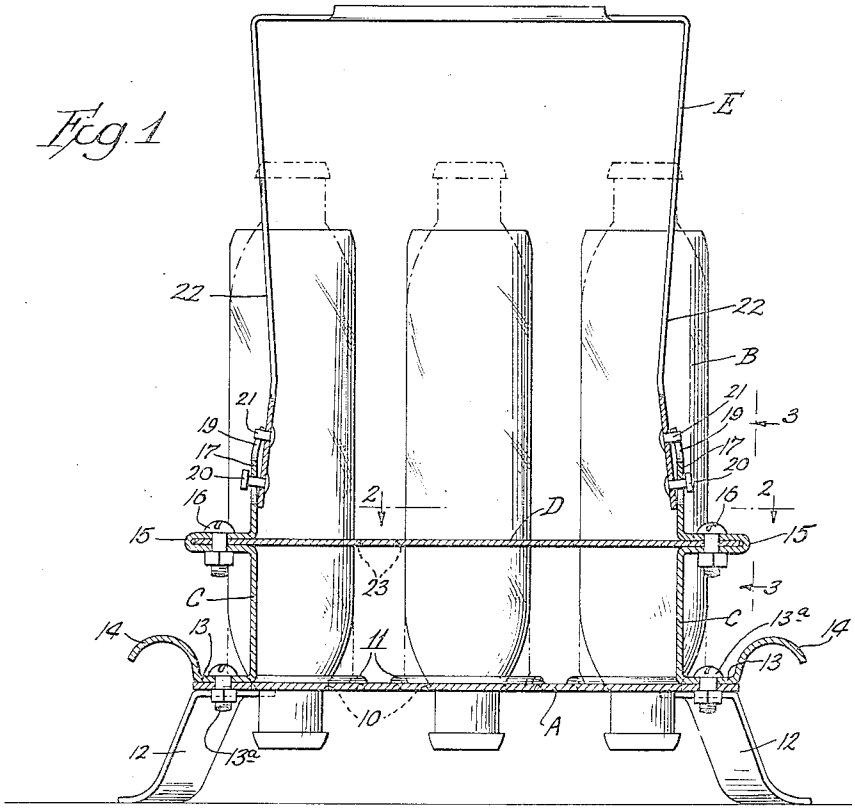


Fig. 2

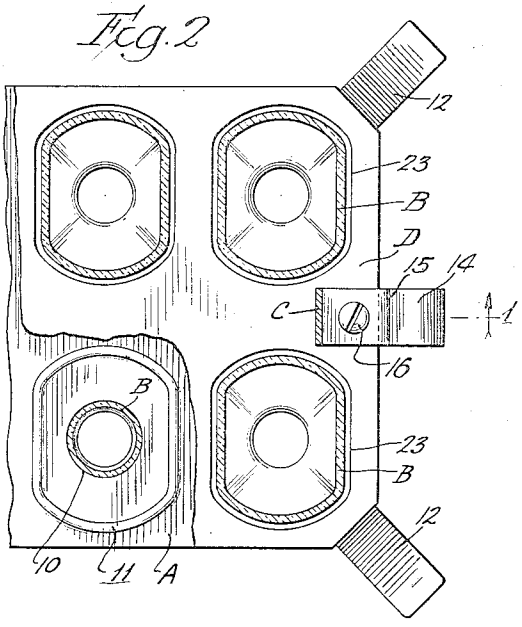
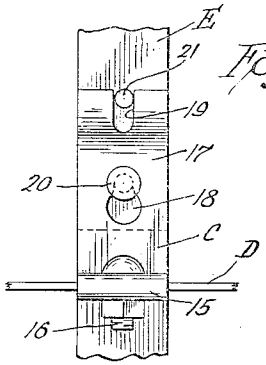


Fig. 3



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BOTTLE CARRIER

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5 Claims. (Cl. 224—48)

This invention, which relates to bottle carriers and the like, has to do principally with a construction which lends itself to a variety of uses, such for example as a portable sterilizing rack in which the bottles are supported mouth downwardly so that when inserted in a sterilizer, into which steam is admitted from below, the steam may enter the mouths of the bottles; or the bottles may be inserted in the rack mouth upright for filling and for inserting in a refrigerator.

The present carrier is provided with a suitable handle for convenience in carrying the filled carrier, the same being removable in order to reduce the overall height when the carrier is placed in a sterilizer or refrigerator. The carrier is further provided with finger pieces to facilitate handling when the carrying handle is removed.

A suggestive embodiment of my invention is set forth in the accompanying drawing, wherein,—

Figure 1 is a longitudinal vertical sectional view of the carrier with the bottles shown in inverted position, the section being taken on line 1 of Fig. 2;

Fig. 2 is a fragmentary plan view in section, the section being taken on line 2—2 of Fig. 1; and

Fig. 3 is an enlarged fragmentary view in side elevation of the detachable connection between one of the standards and the handle, the same being viewed as indicated on the line 3—3 of Fig. 1.

Referring to the drawing, A indicates a base plate upon which are supported bottles B. Standards C extend upwardly from the base to support an upper plate D and to provide a connection with a bail shaped carrying handle E. Preferably, all the parts of the carrier are made of plate metal so that they may be cut and formed by die operations.

The base plate may be provided with a plurality of spaced apertures 10 which are sufficiently large to permit the bead on the bottle neck to be inserted therethrough but not large enough to permit the body of the bottle to slip through. The base is preferably ribbed as at 11 around each opening to form a pocket in which the base of each bottle is held when in upright position. The base may be provided with suitable legs 12 which may be formed integrally therewith, or may be riveted thereto, the legs being suitably bent to elevate the base above the surface upon which the legs rest.

Each of the standards C may comprise a metallic strip bent outwardly at 13 to contact with the base, and secured thereto as by a bolt 13a. The ends of each standard project from the edge of the base plate and are recurved to provide a finger piece 14 for use when the handle E is detached. Each standard extends upwardly from the base, and at an intermediate point is bent upon itself to provide a U-shaped loop 15 for the reception of the edge of the upper plate D, and holds the same in spaced relation above the base plate. Preferably, the plate is secured to the loop as by a bolt or rivet 16, which extends through the overlapped loop portion 15 and the plate D.

Each standard extends upwardly from the U-shaped loop portion 15 to provide a tip 17 to which is attached the handle E. The tip may be provided with a bayonet slot 18 and an open ended slot 19, which slots are adapted to receive a headed stud 20 and a stub stud 21 respectively. The tips may be slightly curved toward each other to provide a frictional grip between the tips and the adjacent portions 22 of the handle when the headed stud 20 is seated in the bayonet slot. The side portions of the handle may be formed outwardly obliquely at their lower ends to contact the inner faces adjacent the tips 17, so that the handle ends will be drawn into tight impingement with the inturned tips when the headed studs engage the small end of the bayonet slots. The studs 20 are adapted to carry the weight of the rack and bottles, and the studs 21 prevent pivoting of the handle about the studs 20.

The plate D is provided with openings 23 in axial alignment with the openings 10 of the base plate, each opening being suitably shaped and of a size to freely receive therein the body of the bottle, to hold the same in a vertical position.

We claim.

1. In a bottle carrier, the combination of a base plate adapted to support bottles thereon, an upper plate in spaced relation to the base plate and provided with apertures adapted to have the bodies of bottles inserted therethrough, and a pair of spaced standards, each formed of plate metal and having its lower end struck outwardly to furnish a section connected with the base plate, and having its end projecting from the edge of the base plate and configured to furnish a finger grip, each of the standards being bent upon itself at a point above the base plate to furnish a U-shaped portion for the reception and support of the edge of the upper plate.

2. In a bottle carrier, the combination of a rec-

tangular base plate having legs at its corners to hold the plate elevated, the base plate having apertures of a size to receive the necks of bottles standing in inverted position, an upper plate in spaced relation to the base plate and having apertures of a size to permit the bodies of bottles to be inserted therethrough, and a pair of spaced standards extending upwardly from medial positions near opposite sides of the base plate, each formed of plate metal having its lower end struck laterally and connected with the base plate, each of the standards being bent outwardly upon itself at a point above the base plate to furnish a U-shaped portion configured to receive and grip the edge of the upper plate.

3. In a bottle carrier, the combination of a rectangular base plate having legs at its corners to hold the plate elevated, the base plate having apertures of a size to receive the necks of bottles standing in inverted position, an upper plate in spaced relation to the base plate and having apertures of a size to permit the bodies of bottles to be inserted therethrough, and a pair of spaced standards extending upwardly from medial positions near opposite sides of the base plate, each formed of plate metal having its lower end struck laterally and connected with the base plate, each of the standards being bent outwardly upon itself at a point above the base plate to furnish a U-shaped portion configured to receive and grip the edge of the upper plate, the tips of the standards extending upwardly above the plane of the upper plate and a handle releasably connected to said tips.

4. In a bottle carrier, the combination of a base plate adapted to support bottles thereon, an upper plate in spaced relation to the base plate and provided with apertures adapted to have the bodies of bottles inserted therethrough, and a pair of spaced standards each formed of plate metal having its lower end struck laterally and connected with the base plate, each of the standards being bent outwardly upon itself at a point above the base plate to furnish a U-shaped portion configured to receive and grip and edge of the upper plate.

5. In a bottle carrier, the combination of a base plate adapted to support bottles thereon, an upper plate in spaced relation to the base plate and provided with apertures adapted to have the bodies of bottles inserted therethrough, and a pair of spaced standards each formed of plate metal having its lower end struck laterally and connected with the base plate, each of the standards being bent outwardly upon itself at a point above the base plate to furnish a U-shaped portion configured to receive and grip the edge of the upper plate, the tips of the standards extending upwardly above the plane of the upper plate and a handle releasably connected to said tips.

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