Feb. 8, 1949. J. S. ALLEN 2,460,915

COLLAPSIBLE HANDLE FOR CONTAINERS

Filed Aug. 22, 1946

Fig. 1.

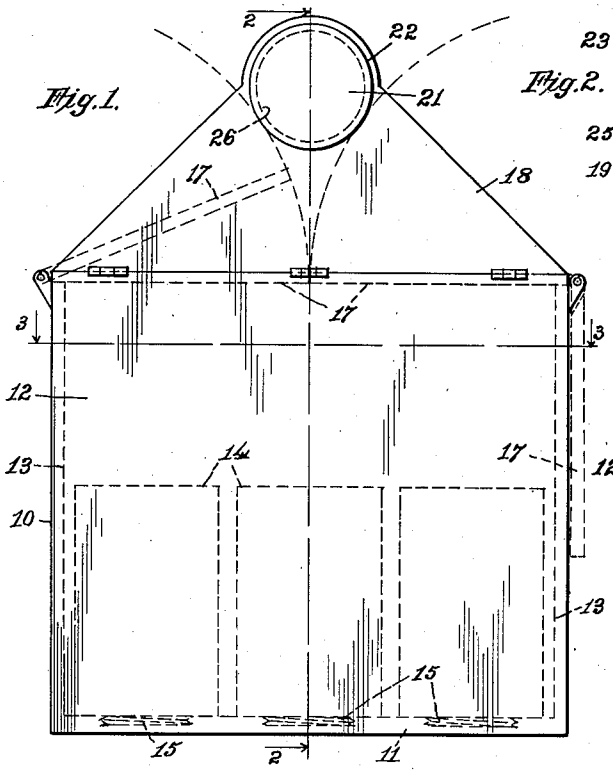


Fig. 2.

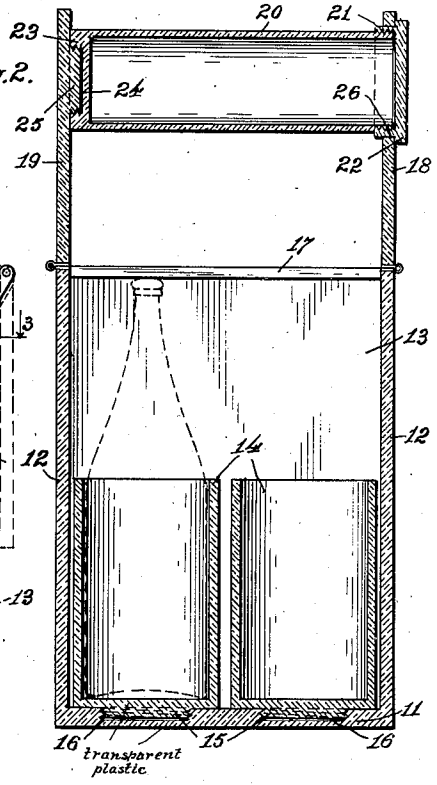


Fig. 3.

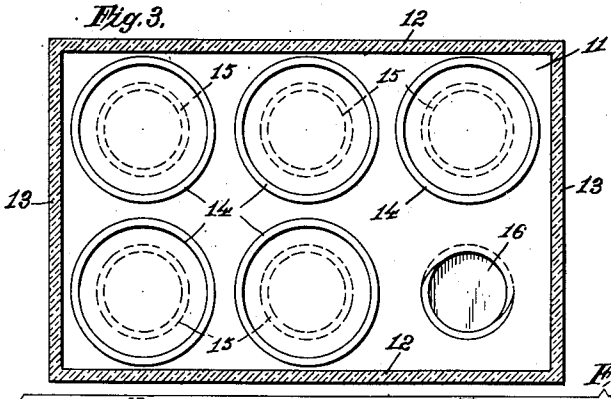


Fig. 4.

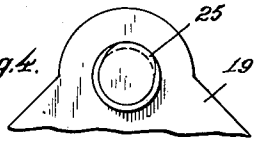


Fig. 5.

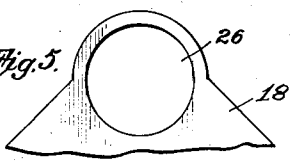
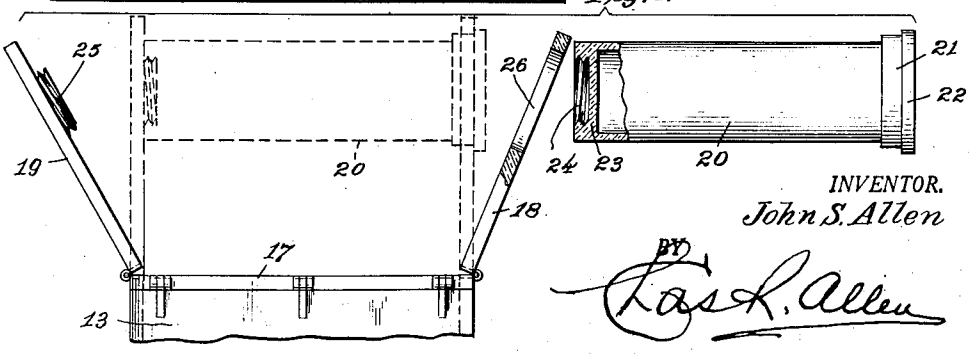


Fig. 6.



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COLLAPSIBLE HANDLE FOR CONTAINERS

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Application August 22, 1946, Serial No. 692,294

2 Claims. (Cl. 220—94)

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This invention relates to article carriers, and particularly to a carrier designed for carrying a plurality of bottles of beverages.

An object of the invention is to provide a carrier of the class stated adapted to accommodate a plurality of beverage bottles, and equipped with means for individually holding each of said bottles to prevent them shifting, or rattling one against the other.

A further object of the invention is to provide a carrier as stated in which the means for holding the bottles comprises a plurality of drinking receptacles, individually removably secured to the bottom of the device.

A further object of the invention is to provide in a carrier of the class mentioned, a handle grip comprising a beverage holder.

A further object of the invention is to provide a carrier for a plurality of bottles as above stated, which shall also be adaptable for use as a lunch box, as a hydrator receptable for a refrigerator, and for other uses.

Other objects will appear hereinafter.

The invention will be more readily understood by reference to the accompanying drawings forming a part of this specification and in which:

Figure 1 is a side elevation of a carrier embodying my invention,

Figure 2 is a vertical transverse section on the line 2—2 of Figure 1,

Figure 3 is a horizontal section on the line 3—3 of Figure 1, with one of the bottle holders removed,

Figure 4 is a detail of the upper portion of one of the handle grip supporting flaps,

Figure 5 is a similar view of the other grip supporting flap, and

Figure 6 is a detail view of the upper portion of the device illustrating the grip as removed from the attaching flaps, and the flaps turning outwardly to fold against the sides of the receptacle after being released by the handle grip.

Referring to the drawings, 10 indicates the body of the carrier which comprises a bottom 11, side walls 12, and end walls 13. Said body is molded in one piece, and is preferably formed of "Plexiglass," "Lucite" or other light weight transparent plastic material. The body is of sufficient dimensions to hold a plurality of beverage bottles, preferably six, in upright position. Means are provided to hold the individual bottles to prevent them from shifting and rattling together, thereby avoiding unnecessary noise and the liability to breakage. This comprises a

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plurality of cups 14, which are detachably secured to the bottom of the receptacle, so that they may be removed to serve as drinking receptacles. To secure the cups in place within the body of the carrier, each cup is provided on its bottom with a threaded boss 15 which screws into threaded recess 16 formed in the bottom 11.

Hinged to the upper edges of the ends 13, are top closure members 17, which, when in closed position, may rest upon the articles within the body 10, as shown in Fig. 2 where one of said members is illustrated resting on the top of a bottle. These closure members are adapted to swing outwardly and downwardly to rest substantially against the ends 13, as indicated in dotted lines at the right side of Fig. 1.

Hingedly connected to the upper edges of the sides 12 are triangular members 18 and 19 to which, when in raised position, may be detachably secured a handle grip 20. The handle grip 20 comprises a cylindrical or tubular member provided with a screw cap 21 having a flange 22; and having a bottom 23 provided with a threaded recess 24 to engage a threaded boss 25 on the member 19. The member 18 is provided with a circular aperture 26 of sufficient diameter to accommodate the screw cap 21 but of less diameter than the flange 22. To assemble the carrying handle, the members 18 and 19 are raised to vertical position, the grip 20 is slipped through the aperture 26 in the member 18 until the flange 22 engages the outer face of said member; and the grip is turned to engage the boss 25 on the member 19, within the threaded recess 24. This locks the members 18 and 19 and the grip 20 firmly and rigidly together. To remove the grip 20, the process is reversed; and in Fig. 6 is illustrated the grip 20 after having been unscrewed from the boss 25 and slipped through the aperture 26. After the grip is removed the members 18 and 19 may be folded flat against the sides 12.

The device above described may be used for various purposes other than as a bottle carrier. It is convenient as a lunch box, particularly for school children. When so used, all, or all but one of the cups 14 are removed to make sufficient room for the lunch, and the grip 20 may be used as a receptacle for milk or other beverage, and for this purpose it is treated to maintain the temperature of the contents.

With the members 18 and 19 folded outwardly, and the lids 17—17 folded inwardly, it may also serve as a hydrator receptacle for fruits and

vegetables in refrigerators. The cup, when removed may be used for various purposes, and many uses may be found for the carrier as a whole.

While I have described the device and its several parts as formed of a transparent plastic, and prefer such construction, it is evident that the invention is not confined to such limitation as to material. It is also to be understood that various changes may be made in the details of construction and arrangement of parts without departing from the scope of the invention as described and claimed.

I claim:

1. In a device of the class described, a body including a bottom, side walls, and end walls integrally moulded of suitable material, a pair of members hingedly connected to said side walls and adapted to extend above the same, one of said members having an aperture and the other member having a threaded boss, in combination with a handle grip adapted to extend through said aperture and having a threaded recess to receive said boss, and a flange to engage the outer face of the opposite member.

2. In a device of the class described, a body including a bottom, side walls and end walls, a pair of upwardly extending members hingedly attached to said side walls, one of said members having a circular aperture, the opposite member

having a threaded boss on its inner face in axial alignment with said aperture, a handle grip comprising a beverage receptacle having a closed end and an open end, a closure for the open end, a flange on said closure, said receptacle being adapted to extend through said circular aperture with the flange on the closure engaging the outer face of the apertured member and a shallow threaded recess in said closed end of said beverage receptacle to detachably receive said threaded boss.

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