Oct. 20, 1931. G. A. KANE ET AL 1,828,416

BOTTLE CARRIER

Filed July 8, 1931

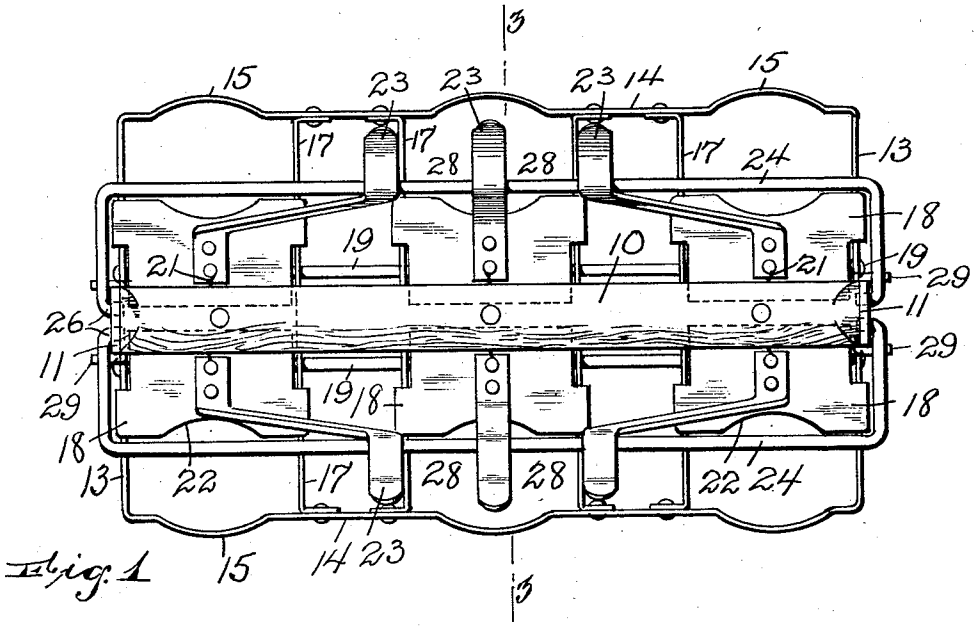


Fig. 1

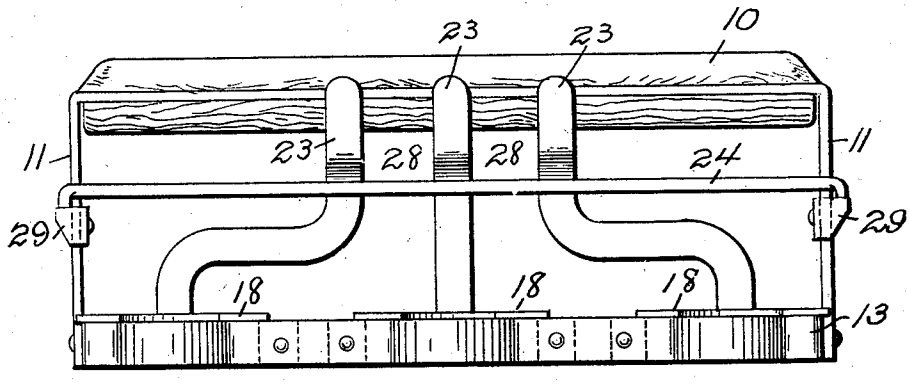


Fig. 2

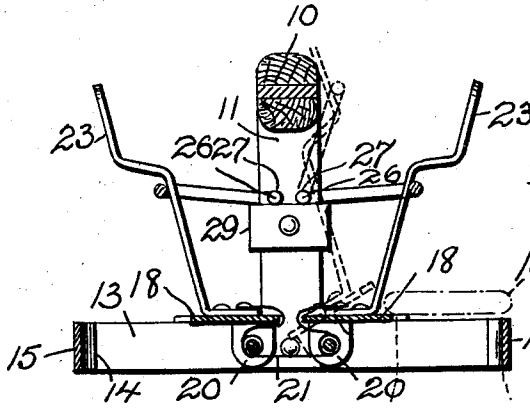


Fig. 3

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UNITED STATES PATENT OFFICE

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BOTTLE CARRIER

Application filed July 8, 1931. Serial No. 549,388.

This invention relates to an improved carrier particularly adapted for carrying bottles by grasping them below the rim at the top of the bottle.

The object of the invention is to provide a carrier that is sturdy by reason of its construction and one that can be manipulated to pick up a number of bottles at the same time and to also deposit the same number. Furthermore, the carrier is designed to enable one to selectively pick up or release a single bottle or two bottles. In other words, the bottle holding elements can be operated singly by means of finger pieces or they can be operated all at the same time. The handle is arranged centrally and the release devices are preferably arranged along each side and close enough for easy and comfortable manipulation.

The invention is illustrated in the accompanying drawings in which Figure 1 is a top view of a bottle carrier embodying my invention. Figure 2 is a side view of the carrier shown in Figure 1. Figure 3 is a cross section taken on line 3 to 3 in Figure 1.

The handle 10 is used for carrying the carrier and has two downwardly extending arms 11, one at each end. At the bottom of these two arms is secured the frame 13 which is made of a strip of metal and is substantially rectangular. We show a carrier made for carrying six bottles. The frame 13 has its side reaches 14 bulged at intervals as at 15 which bulged parts for the fixed jaws over which the rim 16 of the bottle rack is held.

The side reaches 14 of the frame 13 are connected by cross arms 17 which stiffen the frame and which also act as supports or stops for the downward movement of the swinging jaws 18, the outer ones of which also bear on the frame 13 at the ends. These movable jaws 13 are pivoted to rods 19 which pass through the carrier near the center. The jaws 18 have ears 20 through which the rods 19 pass and springs 21 are held by the rods 19 and bear on the jaws 18 to normally hold the jaws 18 down. The jaws 18 are preferably recessed as at 22 opposite the bulged portions 15 and hold the bottle neck on the side opposite the part 15 as will be clearly seen from Figure 3.

On each movable jaw is a finger piece 23. The finger pieces are arranged fairly close together on each side of the handle for convenience in operation. The thumb of the hand on one side and the finger of the hand on the other side can be used to release any single bottle that has been deposited and the jaw 18 that holds the bottle is thus raised to allow the carrier to pass upwardly clear of the rim 16.

In order to quickly load or empty the carrier we provide means for simultaneously operating the movable jaws on one or both sides of the carrier. The loops 24 are illustrated as means for moving the fingers 23 at the same time. These loops are in the form of bails and have their ends 26 turned in and thus pivoted in holes 27 in the arms 11. They are positioned within easy grasping distance of the handle 10 and swung upwardly when grasped as shown in dotted lines in Figure 3. The finger pieces 23 are spaced as at 28 in order to allow fingers of the hand to pass between them to grasp the loops 24. The stops 29 or similar means are installed to limit the downward movement of the loops 24. When the loops are grasped and raised all the jaws 18 are lifted and as the jaws are spaced apart the same distance as the compartments in a commercial milk box, the carrier can be passed down over the necks of the bottles, the loops 24 released and the full capacity of the carrier utilized when the carrier is lifted by the handle 10. Bottles can be deposited simultaneously by pulling up on the loops 24 after the bottles have been deposited on a surface and the carrier lowered slightly and then raised clear of the bottles. Then the loops 24 can be released. The method of picking up and depositing single bottles by manipulating the finger pieces 23 is obvious.

Various changes may be made in the form and proportion of the parts without departing from the scope of our invention.

We claim:—

1. A bottle carrier comprising a handle having a laterally extending bracket with

outer jaws for grasping bottles, inner jaws to cooperate with the outer jaws for holding purposes, finger pieces attached each to an inner jaw for individual manipulation, and loops common to all the finger pieces for simultaneous operation.

2. A bottle carrier comprising a centrally arranged longitudinal handle, jaws flanking the handle and having finger pieces for individual operation of the jaws and loops disposed to move toward the handle when operated, and when so operated to move the finger pieces simultaneously.

3. A bottle carrier comprising a handle, a series of jaws attached to the handle, finger pieces each on a jaw for individual operation, and means operable from the handle for operating the jaws in unison.

4. A bottle carrier comprising a handle, jaws supported from the handle, finger pieces one on each jaw for individual operation, and a loop pivoted to the handle, and disposed to engage all the finger pieces when swung on its pivot.

5. A bottle carrier comprising a frame having a series of fixed jaw members arranged at the opposite sides, pivoted jaw members opposite the said fixed members, a handle above and longitudinally arranged relative to said frame, finger pieces on the pivoted jaws and projecting to within comfortable manipulation from the handle, and means on the handle and within grasp thereof for moving the fingers simultaneously.

In testimony whereof they affix their signatures.

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