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BOTTLE LIFTING DEVICE

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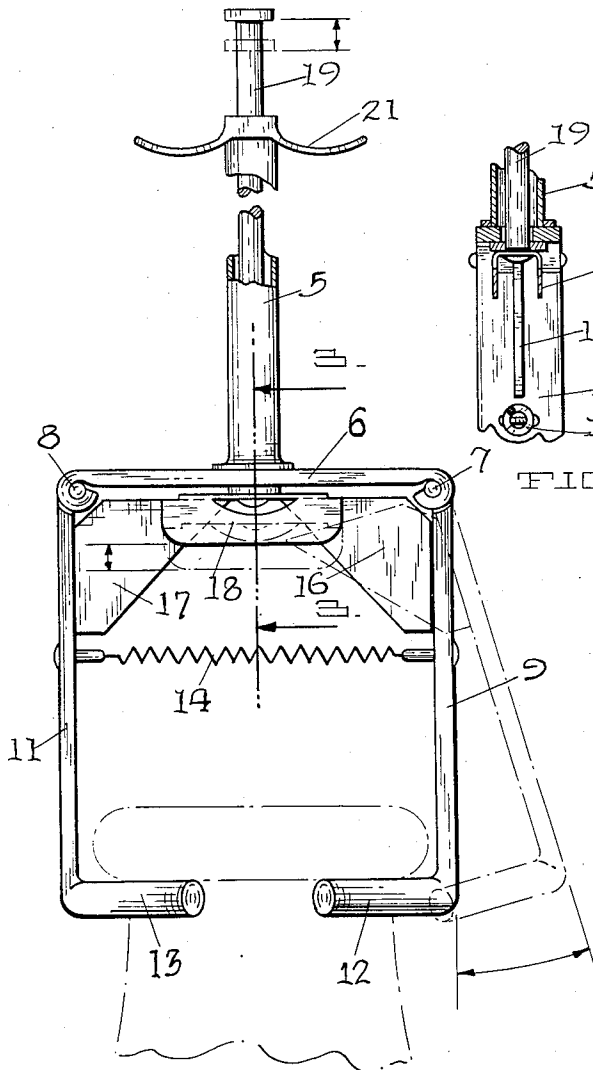


FIG. 1.

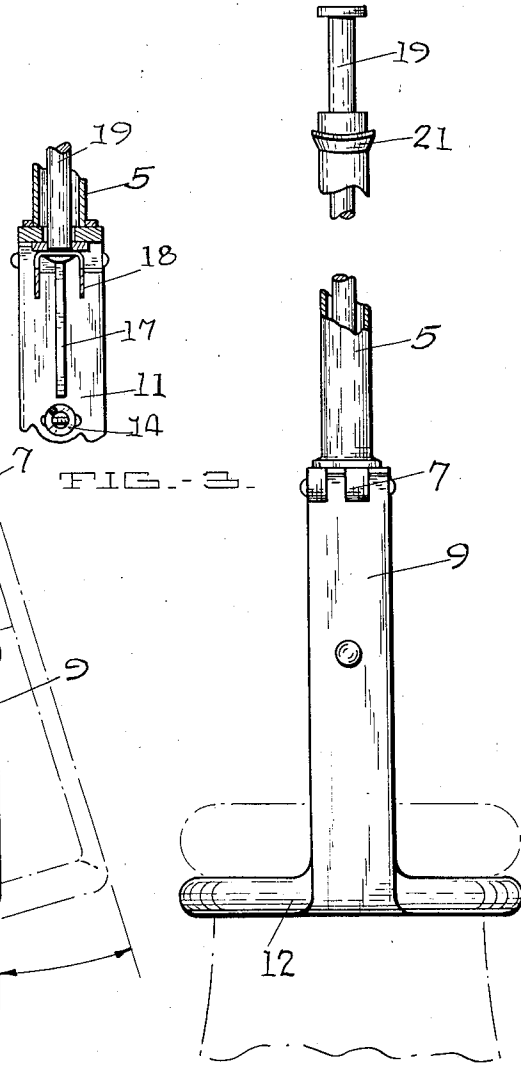


FIG. 2.

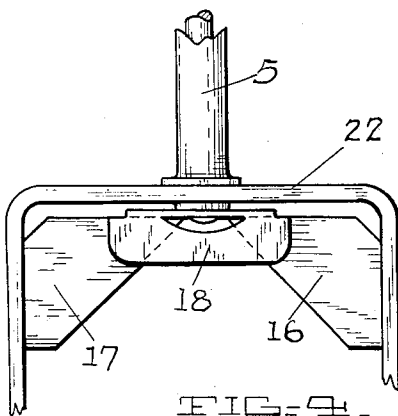


FIG. 3.

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## UNITED STATES PATENT OFFICE

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## BOTTLE LIFTING DEVICE

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## 1 Claim. (Cl. 294—115)

This invention relates to improvements in bottle lifting devices.

The principal object of the invention is to produce a device which may be employed to grip the top of a bottle or jar, so that the same may be carried or lifted and released with a minimum amount of effort and without employing two hands to accomplish the picking up or releasing operation.

A further object is to produce a device which is economical to manufacture.

A still further object is to produce a device which may be readily cleansed and therefore, one which is sanitary.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawing forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Fig. 1 is a side elevation of my device as the same would appear in use,

Fig. 2 is an end elevation of Fig. 1,

Fig. 3 is a cross sectional view on the line 3—3 of Fig. 1, and

Fig. 4 is a fragmentary detail view of a modified form of my device.

There are many times when it is desired to lift jars, bottles and the like, without actually contacting the same. Applicant has devised a simple mechanism which enables the user to grasp the jar firmly, transport it and release it in a most efficient manner.

In the accompanying drawing wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 5 designates a tubular stem to which is secured a cross piece 6. Pivoted to the cross piece 6 as at 7 and 8 are arms 9 and 11, respectively. Formed upon the lower ends of these arms are yokes 12 and 13, respectively and extending between the arms is a spring 14. This spring tends to keep the arms moved toward each other at all times. Secured to the upper ends of the arms adjacent the pivot, are triangular brackets 16 and 17. The tips of these brackets are contacted by a pusher 18 which is secured to the bottom end of a

plunger 19. This plunger extends to a point above the finger piece 21 which is secured to the tubular member 5.

In the modified form of the device as shown in Fig. 4 the main difference is that the cross piece 6 and arms 9 and 11 of the form shown in Fig. 1, have been changed by substituting spring material, in the form of a U-shaped member 22, thus eliminating the necessity for the hinges 7 and 8, the action being the same in that when the plunger 19 is pressed, the pusher 18 acts upon the brackets 16 and 17 and causes the U-shaped member 22 to spread its arms in an obvious manner thus effecting the gripping or releasing of the jar or bottle.

In the preferred form in Fig. 1, the movement of the plunger 19 with relation to the tubular member 5 causes the member 18 to push upon the ends of the brackets 16 and 17 to effect a pivotal action of the arms 9 and 11. The movement of one of these arms is shown in dotted lines of Fig. 1.

It is to be understood that the forms of my invention herewith shown and described are to be taken as preferred examples of the same and that various changes relative to the material, size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claim.

Having thus described my invention, I claim:—

In a device of the character described a tubular member, a cross piece secured to said tubular member, a pair of arms pivoted to the outer ends of said cross piece and having gripping yokes at their lower ends, angle brackets secured to said arms, a plunger extending through said tubular member and having a pusher arranged at its lower end, said pusher being substantially U-shaped in cross section and adapted to contact the inner ends of said angle brackets along their top edges and their side edges to cause the expanding movement of said arms, and a spring connecting said arms together to cause their retraction toward each other whereby an object may be gripped between the gripping yokes thereof.

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