G. D. C. CODDINGTON.

MILK BOTTLE HOLDER.

APPLICATION FILED JUNE 21, 1921.

1,433,938. Patented Oct. 31, 1922.

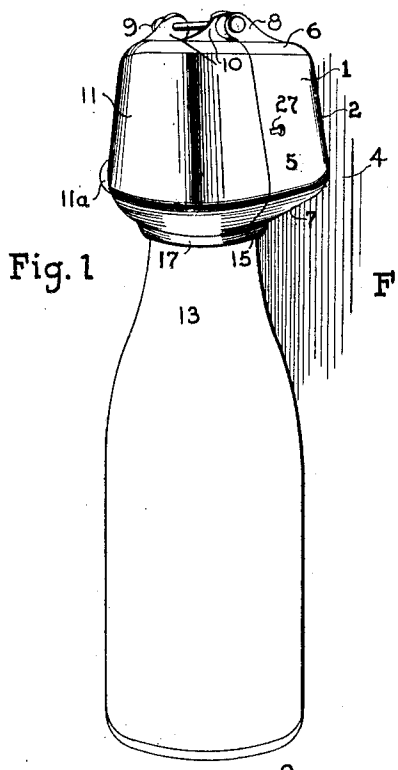


Fig. 1

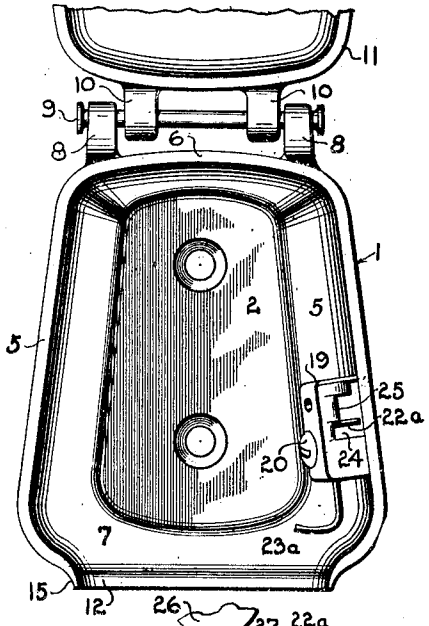


Fig. 3

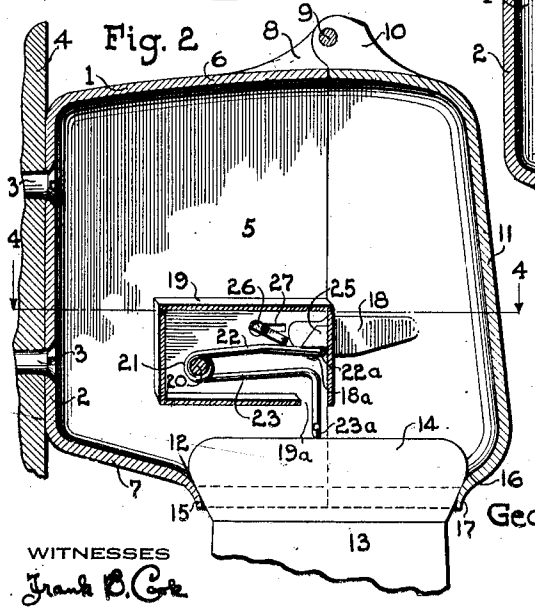


Fig. 2

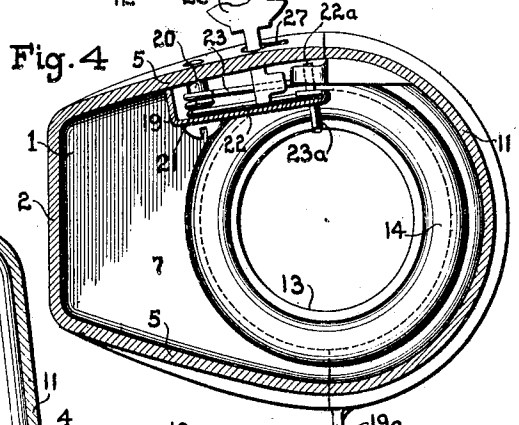


Fig. 4

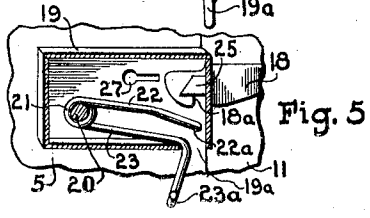


Fig. 5

WITNESSES

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UNITED STATES PATENT OFFICE.

GEORGE DAVID CULLOM CODDINGTON, OF WEST MIDDLETOWN, OHIO.

MILK-BOTTLE HOLDER.

Application filed June 21, 1921. Serial No. 479,255.

To all whom it may concern:

Be it known that I, GEORGE D. C. CODDINGTON, a citizen of the United States, residing at West Middletown, in the county of Butler and State of Ohio, have invented new and useful Improvements in Milk-Bottle Holders, of which the following is a specification.

This invention relates to holders for milk bottles or the like.

The object is to provide a simply constructed and cheaply manufactured device for holding bottles adapted to be applied to a wall or post or other support accessible to a milkman, said device comprising means for receiving the neck of the bottle and capable of being automatically locked around the same to hold it in suspended position and prevent its contents being tampered with, or its removal from the holder, without the aid of a proper key.

A further object is to provide a milk bottle holder having novel locking means for the closure which cannot be operated to lock the latter unless a bottle is first placed in proper position with the neck thereof projecting within the casing, after which the said closure is forced into locking engagement with the casing, and the bottle cannot be released until the locking mechanism is actuated by the proper key, thus preventing the careless or accidental closing of the holder against the introduction of a bottle and the necessity for using the key is obviated when placing the bottle in the holder.

A full and complete understanding of the invention may be obtained from a consideration of the following detailed description, taken in connection with the accompanying drawing forming a part of this specification, it being understood that while the drawing shows a practical form of the invention, the latter is not to be confined to strict conformity therewith, but may be changed or modified, so long as such changes or modifications mark no material departure from the salient features of the invention, as specifically pointed out in the appended claims.

In the drawing, in which similar reference characters designate corresponding parts throughout the several figures:

Figure 1 is a perspective view of the improved holder with a milk bottle applied thereto.

Figure 2 is an enlarged vertical sectional view of the holder and illustrating the manner of supporting the bottle thereby.

Figure 3 is a front elevation of the body of the casing, the lid being elevated and shown partly broken away.

Figure 4 is a horizontal sectional view taken on the line 4—4 of Figure 2.

Figure 5 is a detail view similar to Figure 2 and showing another position of the locking mechanism.

The invention comprises a hollow shell-like casing 1, formed of suitable metal cast into shape to provide the vertically disposed, flat rear wall 2, suitably aperture for the reception of the fastening screws 3, which may be utilized to secure the device to a wall or post 4, or any other desired support. Any other fastening means may be substituted for this construction.

The casing 1 includes the side walls 5, and the top and bottom walls 6 and 7 respectively, all of which are substantially of uniform thickness and are formed integrally with the rear walls 2, as clearly shown in the drawing, the walls 5, 6 and 7 preferably flaring outwardly from the rear wall and comprising a hollow-open front casing, having the corners, where the several walls are joined together, rounded, to shed rain when the device is located out in the weather, and also to add to the appearance of the device.

The top wall 6 is provided with spaced ears 8 projecting forwardly in advance of the front edge of the top wall and adapted to receive the horizontal pintle rod 9 on which is pivoted the corresponding ears 10 of a front lid or closure 11, the latter partaking of the same form as the casing 1 and having a front wall, side walls and a top and bottom wall, the casing 1 and the closure 11 both being somewhat narrower across the top portion than across the bottom portion thereof, as clearly shown in Figure 3 of the drawing.

The swinging front or closure 11 is provided at one side with a projecting finger piece 11^a to facilitate swinging the closure in an upward direction to an upstanding position above the casing 1, when the device is being applied to the post 4 through the medium of the screws 3, though, in the ordinary operation of the device, as will be explained, it is not necessary to swing the closure up to this extreme position when applying the neck of a battle into the holder.

The lower wall 7 of the casing has a semi-circular opening or seat 12 formed in its front edge for the reception of the neck of a bottle 13, the circumferential bead 14 of which is adapted to rest upon the bottom wall 7 when the bottle is properly applied, and the said semi-circular opening is surrounded by a depending flange 15 which fits against the flaring lower face of the bead 14, and a similar semi-circular opening 16 surrounded by the flange 17 is provided in the bottom wall of the closure 11, so that when the latter is swung shut, the neck of the bottle is completely surrounded and is prevented from withdrawal. As Figure 2 shows, the line of division between the casing and the closure coincides with the center of the openings 12 and 16.

Carried upon the inner face of one of the side walls 5 of the casing 1 is a locking mechanism, whereby when the bottle is located in the seat of the casing, certain parts of said mechanism are positioned to coact with a notched tongue or hasp 18 carried by the corresponding side wall of the closure 11, and the latter becomes securely locked to the casing 1, and the bottle is prevented from surreptitious removal therefrom, until certain parts are actuated to release the tongue or hasp and consequently the closure, through the medium of a proper key.

The said locking mechanism comprises a thin metallic, supplemental casing 19 having a front and rear wall, top and bottom walls and an inner wall, the latter being suitably apertured for the reception of a screw 20 which fastens the lock casing 19 to the inner face of the side wall 5 of the shell or casing 1, and serves the additional purpose of providing a pivoting means for the eye 21 of a spring member, having the spaced upper and lower terminal arms 22 and 23 respectively, located within the lock casing.

The front wall of the lock casing 19 has an opening 24 formed therein, and a rearwardly directed finger or stop 25, carried by said wall and located at one side of the opening 24 and in alinement with the notched tongue 18 of the closure, is adapted to be struck by the laterally directed terminal 22^a of the arm 22 and arrest the upward movement of the spring member, when the downwardly extending contact foot portion 23^a of the lower arm 23 of the spring member is pressed upwardly by the upper edge of the neck of the bottle 13, as clearly shown in Figure 2 of the drawing. In the normal position of the device, the closure hangs downwardly but cannot become locked without the insertion of the bottle. When the milkman inserts the neck of the bottle through the seats 12, 16 of the casing and closure respectively, the contact foot portion 23^a of the spring member, which projects through an opening 19^a in the bottom wall of the lock casing, is encountered by the bottle, and the said spring member is raised and caused to turn about the screw 21, until the laterally directed locking terminal 22^a of the upper arm of the spring is caused to bear against the lower edge of the rearwardly extending finger 25, when the same is arrested in proper position to be engaged by the rounded nose end of the tongue or hasp 18, as the closure is pressed inwardly. The tongue or hasp presses the terminal 22^a downwardly and causes it to snap into the notch 18^a of the tongue, when the closure is locked shut in surrounding relation to the neck of the bottle.

It is impossible to open the closure and remove the bottle from the holder until the upper arm 22 of the spring member is forced downwardly to free the terminal 22^a from the notch of the tongue 18, through the medium of a suitable key 26, which (as shown in Figures 2 and 4) may be passed through an appropriate keyhole 27 formed in the adjacent side wall 5 of the casing, and when this operation is taking place, the bottle is still within the casing, the foot 23^a bearing upon the same. When the tongue or hasp 18 is released, the closure 11 may be readily moved forward by simply grasping the bottle in one hand to push the same, whereupon the said bottle may be removed.

It will be apparent that when there is no bottle within the openings of the casing and the closure, the weight of the spring arms 22 and 23 will cause the same to rotate about the pivotal screw 20 thus causing the transverse terminal 22^a to fall entirely below the path of movement of the tongue 18 of the closure 11, when the latter is swung shut, so that the same may not engage with the notch 18^a, thus defeating any attempt of persons to close the holder against the introduction of a bottle thereinto. In other words, the milkman, in the act of inserting the bottle, effects the locking of the same, and the household who holds the key may release the bottle, and at the same time place the device in position for actuation by the milkman on his next delivery.

From the foregoing it will be seen that a simple, easily operated and cheaply manufactured holding device for milk bottles and the like has been provided, which may be applied to a suitable support in a position to be accessible by a milkman or dealer and that it is not necessary for him to use a key to place the bottle of milk in the holder and to lock the same therein, and it will further be seen that it is impossible for any unauthorized person to maliciously lock the holder against the introduction of a bottle. The device of the present invention is sanitary, as the same may be readily cleansed and kept free from dust and dirt,

the mouth of the bottle being covered and protected at all times.

What is claimed is:

1. A bottle holder comprising a hollow casing and a closure therefor, said parts being hinged together and having an opening for the insertion of the neck of a bottle, and locking mechanism for locking the closure to the casing, said locking mechanism being normally inoperative but rendered operative to lock the parts together upon the insertion of the neck of the bottle within said opening.

2. A bottle holder comprising a hollow shell or casing open at the front and having a seat for the bottle neck at the bottom, a hollow closure also having a seat for the bottle neck and closing against the open front of the casing, means for hinging the closure to the casing at the top so that the closure hangs pendant therefrom, and a locking mechanism for the closure, said locking mechanism remaining inoperative until the insertion of a bottle neck within said seats.

3. A bottle holder comprising a hollow casing closed on all sides except the front and having a bottle seat for the bottle neck at the bottom, a closure hinged to the casing and also having a seat for the bottle neck at the bottom, said closure covering the open front of the casing, and a locking mechanism contained within the casing and closure and carried in part by each element, said locking mechanism being normally inoperative and rendered operative by the insertion of a bottle neck within said seats.

4. A bottle holder comprising a hollow shell or casing and a closure therefor, each having an opening at the bottom to provide for the insertion of the neck of a bottle, and locking mechanism having a part thereof mounted in the casing and a part mounted in the closure, said locking mechanism being normally inoperative and including an element which is actuated upon the insertion of the neck of the bottle to render the locking mechanism operative.

5. A bottle holder comprising a hollow shell or casing open at the front and provided with an opening at the bottom, a closure hinged at the top of the casing and closing against the open front of the casing and also having an opening at the bottom, the division between the closure and the casing intersecting the center of said openings, and locking mechanism contained within the casing and closure and normally inoperative to lock the closure, said locking mechanism including an element which, upon the insertion of the bottle within said casing and closure actuates the element to render the lock operative.

6. A bottle holder comprising a hollow shell or casing and a closure therefor, said casing and said closure each having an opening at the bottom for the insertion of the neck of the milk bottle, a locking mechanism contained within the casing, and a hasp or tongue carried by the closure, said locking mechanism being normally inoperative to lock the hasp or tongue, and including an element which is normally in the path of the milk bottle and which is actuated by the insertion of the milk botle to render the locking mechanism operative.

7. A bottle holder comprising a hollow shell or casing open at the front and having a substantially semi-circular opening at the bottom, a hollow closure hinged to the casing and also having a substantially semi-circular opening at the bottom, the two openings combining to receive the neck of a milk bottle, a locking mechanism contained within the casing and including a hasp or tongue carried by the closure and a locking member caried by the casing, said locking member having a part extending into the path of the milk bottle to be actuated thereby to effect the locking of the tongue or hasp only upon the insertion of the milk bottle in place.

8. A bottle holder comprising a hollow shell or casing having a substantially semi-circular opening at the bottom, a hollow lid or closure hinged to the top of the casing and also having a substantially semi-circular opening at the bottom, the two openings when combined being adapted to receive the neck of the milk bottle, a locking mechanism including a tongue or hasp carried by the closure, and a spring member carried by the casing, said spring member having a contact foot depending in the path of the milk bottle, and a locking arm adapted to be engaged with the tongue or hasp upon contact of said foot with the milk bottle.

9. A bottle holder comprising a shell or casing open at the front and adapted to be supported in vertical position, a hollow closure hinged to the top and adapted to swing down against the open front of the casing, said casing and closure having coacting seats in their bottom walls adapted to receive and embrace the neck of a bottle locking mechanism carried on the inner face of one of the side walls of the casing and adapted to coact with a part on the closure to lock the latter in closed position only when a bottle is placed in the said seats and the closure shut.

10. A bottle holder comprising a shell or casing open at the front and adapted to be supported in vertical position, a hollow closure hinged to the top and adapted to swing down against the open front of the casing, said casing and closure having coacting seats in their bottom walls adapted to receive and embrace the neck of a bottle,

locking mechanism carried on the inner face of one of the side walls of the casing, said mechanism comprising a spring mounted to rock vertically and having upper and lower arms, the lower arm having a depending foot adapted to contact with the top of the bottle to elevate the upper arm, the latter having a lateral extension, a notched tongue carried by the closure and adapted when said closure is shut to engage with the lateral extension and hold the closure locked, said upper arm being depressible by a key to release the tongue and free the closure.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

GEORGE DAVID CULLOM CODDINGTON.