No. 898,222. PATENTED SEPT. 8, 1908.

F. JOHNSON.

MILK BOTTLE LOCKING DEVICE.

APPLICATION FILED FEB. 19, 1908.

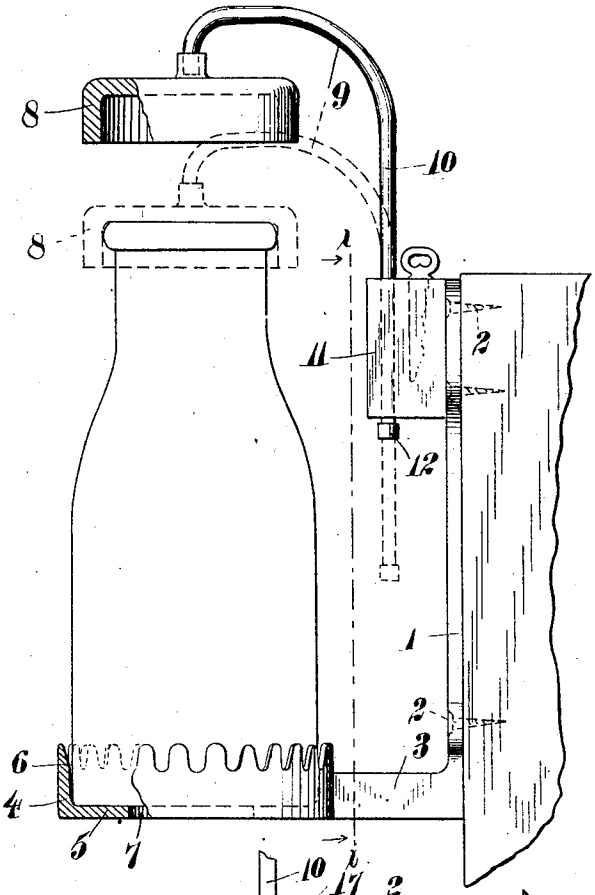


Fig. 1.

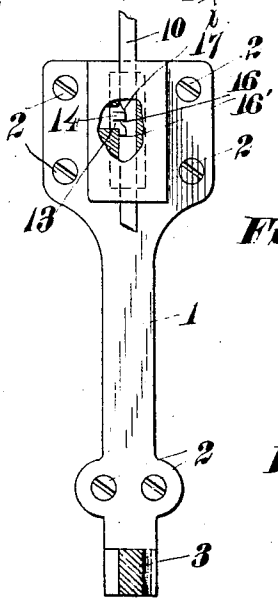


Fig. 2.

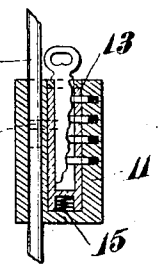


Fig. 3.



Fig. 4.

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UNITED STATES PATENT OFFICE.

FRANK JOHNSON, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO FREDERICK VON NESSEN, OF CHICAGO, ILLINOIS.

MILK-BOTTLE-LOCKING DEVICE.

No. 898,222. Specification of Letters Patent. Patented Sept. 8, 1908.

Application filed February 19, 1908. Serial No. 416,800.

To all whom it may concern:

Be it known that I, FRANK JOHNSON, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented a certain new and useful Improved Milk-Bottle-Locking Device, of which the following is a specification.

My invention relates to a locking device for milk bottles, that is to a device whereby a milkman may secure a bottle of milk at the door to which it is delivered to prevent the same from being taken by others than those to whom it belongs.

The object of my invention is to provide a device for securing a milk bottle at the door to which it is delivered and so constructed and arranged that no one except those having the key of the device can remove the bottle therefrom.

A further object of my invention is to provide a device as mentioned which may be readily and quickly operated by the milkman in order to occasion him no delay in his route.

A further object of my invention is to provide a device of the character mentioned which shall be of simple construction, of low cost to manufacture and one which shall not readily get out of order.

A further object of my invention is to provide a device of the character under consideration which shall accommodate bottles of different heights.

Other objects will appear hereinafter.

With these objects in view my invention consists generally in a bracket to be secured to a door frame or other suitable place and adapted to receive a bottle of milk, in combination with a cap adapted to slip down over the upper end and means for locking said cap to prevent removal of the bottle.

My invention further consists in a bracket adapted to be secured to a door frame or other suitable support and having a socket to receive the bottom of a milk bottle in combination with a cap vertically slidable on said bracket and adapted to be pressed down over the upper end of the bottle and a lock for securing said cap in locking position.

My invention further consists in various details of construction and arrangements of parts all as will be hereinafter fully described and particularly pointed out in the claims.

My 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 bottle locking device embodying my invention in its preferred form, portions of the device being shown in the section, Fig. 2 is a vertical section on the line x—x of Fig. 1, Figs. 3 and 4 are details of the locking device.

Referring to the drawings 1 indicates a bracket adapted to be secured to a door frame or other convenient place as by the screws 2. The bracket 1 preferably comprises a vertical disposed plate extending horizontally from the bottom of which is an arm 3 terminating in the socket member 4 in which the bottle is adapted to rest. The socket member 4 comprises a bottle supporting portion 5 having an upwardly extending annular flange 6. I prefer that the socket be open at the bottom as at 7 to prevent the accumulation of dirt therein, in which case the bottle supporting member comprises an annular inwardly extending flange.

8 indicates a bell shaped cap adapted to slip down over the upper end or mouth of the bottle. Fixed to the cap 8 is a rod 9 terminating in the vertical portion 10. The portion 10 extends through a box or lock case 11 formed upon or secured to the bracket 1. The portion 10 is preferably squared as shown or otherwise arranged to prevent turning or twisting in the lock case. Upon the lower end of the rod or stem 10 is a stop 12 to prevent the cap from being detached from the bracket. The cap normally stands in the position shown in Fig. 1 but after the milk bottle is inserted in the socket 4 it is pressed downwardly into the position shown in dotted lines in the same figure. It is obvious that if the cap is locked in the latter position it will be impossible to remove the bottle. Any suitable spring lock may be used for this purpose, and in the drawings I have illustrated conventionally an ordinary cylinder lock having the divided locking pins or tumblers. As shown therein the cylindrical plug 13 is provided with an ear or lug 14 which is normally pressed into engagement with the stem 10 by a spring 15 one end of the spring being secured or fixed to the plug and the other end to the casing. The stem 10 is provided with a pair of notches 16, 16′, into one of which the lug 14 is pressed when the cap 8 is moved into locking position.

Milk bottles usually vary somewhat in height and, it is for this reason that I provide the two notches in the stem 10, the notch 16' being engaged by the lug 14 when a tall bottle is placed in the device, and the notch 16 when a shorter one is placed therein. It is obvious that any number of notches may be employed in order to accommodate bottles of various heights. The upper faces of the notches are beveled or inclined as indicated at 17 to permit the stem and the cap to move freely downward, but after having been once pressed down, they cannot be raised to release the bottle until the plug 13 is rotated with the proper key to withdraw the lug 14 from the notch.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

1. In a device of the class described, a bracket adapted to be secured to a suitable support and having a socket to receive the bottom of the bottle, a lock case formed on said bracket, a rod slidably mounted in said case and having a curved upper end, a bell shaped cap fixed to said curved upper end and adapted to be depressed over the mouth of the bottle, and means in said case for locking said rod, substantially as described.

2. In a device of the class described, a bracket adapted to be secured to a suitable support and having a socket to receive the bottom of the bottle, a lock case formed on said bracket, a rod slidably mounted in said case and having a curved upper end, a bell shaped cap fixed to said curved upper end and adapted to be depressed over the mouth of the bottle, a spring pressed member in said case for locking said rod and said cap in depressed position, said rod being provided with a plurality of notches to receive the same, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANK JOHNSON.

Witnesses:
HELEN F. LILLIS,
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