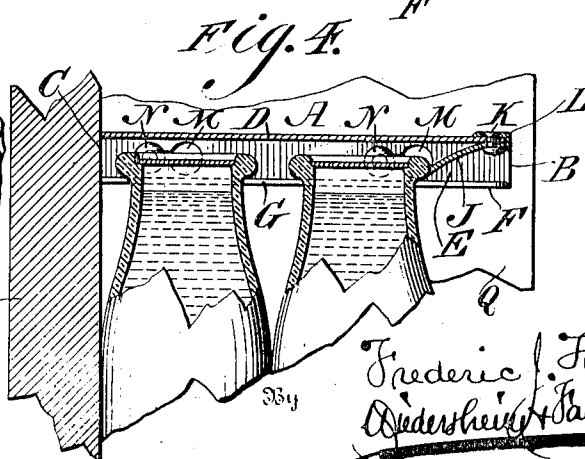
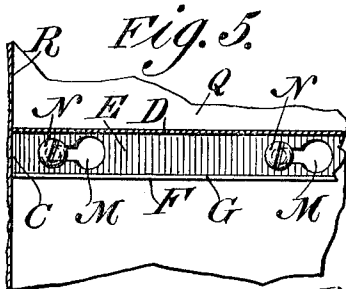
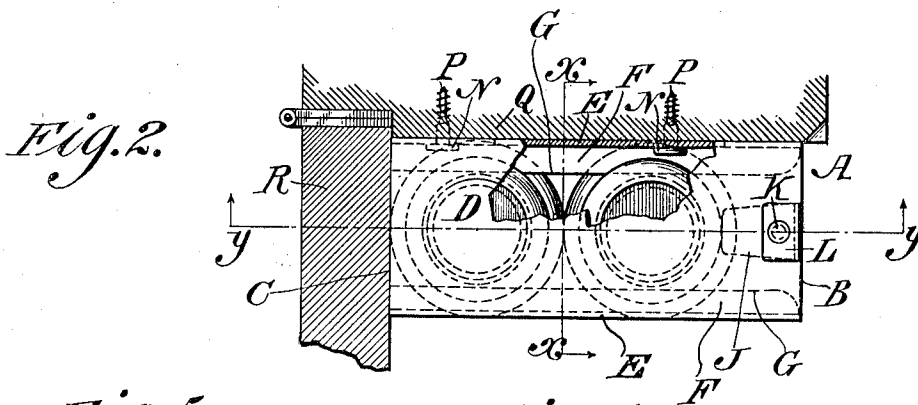
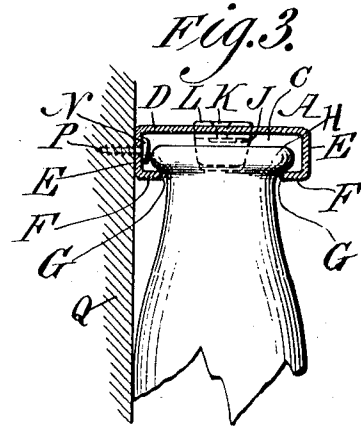
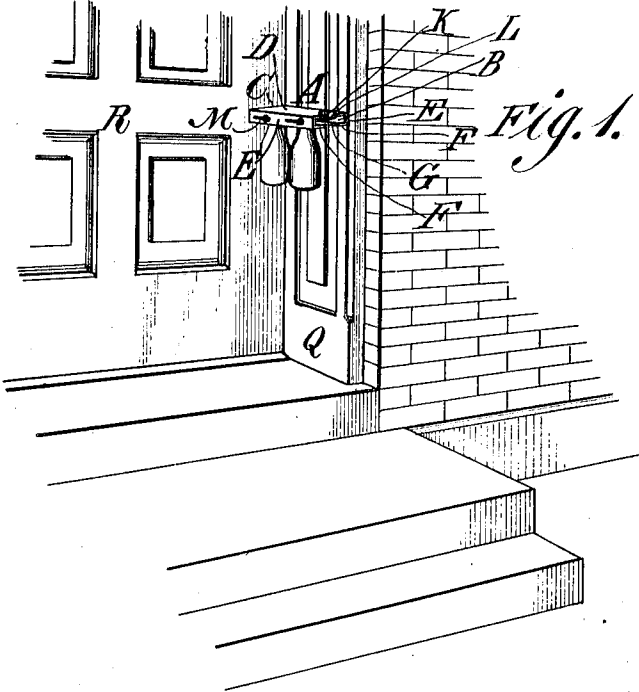


F. J. HAMMES.
 LOCK FOR MILK AND OTHER BOTTLES.
 APPLICATION FILED JULY 9, 1908.

1,054,408.

Patented Feb. 25, 1913.



Witnesses

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UNITED STATES PATENT OFFICE.

FREDERIC J. HAMMES, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, OF ONE-SIXTH TO MARY A. STRATTON, ONE-SIXTH TO ANNA D. HAMMES, ONE-SIXTH TO HENRY MILLER, AND ONE-THIRD TO JOHN A. WIEDERSHEIM, ALL OF PHILADELPHIA, PENNSYLVANIA.

LOCK FOR MILK AND OTHER BOTTLES.

1,054,408.

Specification of Letters Patent.

Patented Feb. 25, 1913.

Application filed July 9, 1908. Serial No. 442,678.

To all whom it may concern:

Be it known that I, FREDERIC J. HAMMES, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Lock for Milk and other Bottles, of which the following is a specification.

My invention consists of a lock for milk and other bottles, the same embodying a runway by which the bottles may be inserted and from which they may be suspended, and means for controlling the bottles against outward displacement.

It also consists in adapting the inner end of the runway to be closed by a door, on whose frame or jamb the runway is secured, the opening of said door uncovering the adjacent end of the runway and permitting the proper removal of the bottle.

It also consists of means for connecting the runway to the door-frame or jamb and preventing removal of the same unless by the opening of the door.

For the purpose of explaining the invention, the accompanying drawing illustrates a satisfactory reduction of the same to practice, but the important instrumentalities thereof may be varied, and so it is to be understood that the invention is not limited to the specific arrangement and organization shown and described.

Figure 1 represents a perspective view of a bottle-lock embodying my invention. Fig. 2 represents a horizontal section thereof. Fig. 3 represents a transverse vertical section on line $x-x$, Fig. 2. Fig. 4 represents a longitudinal vertical section on line $y-y$, Fig. 2. Fig. 5 represents a longitudinal vertical section of a portion on line $y-y$, Fig. 2, omitting the bottle.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings:—A designates a hanger composed of a comparatively rectangular box or trough-shaped body open at its opposite ends B, C, closed at top D and sides E, and having its bottom formed of inturned members F, which are separated by the passage G, so as to permit the neck of a bottle to enter the same, said members constituting a runway on which said neck is supported by the top flange H thereof.

Depending from the top D into the hanger

A at the front end thereof is the dog or tongue J, which extends obliquely downwardly and rearwardly from said top, it being firmly secured at its top end to said top by the rivet K or other suitable means and being free to yield in vertical direction from said end. In order to more freely connect said tongue in position, its forward end is bent back on itself forming the loop L, which receives the end of the top D of the hanger and is also secured to said top by the rivet K or other suitable means, whereby it will be exceedingly difficult to break-off said tongue from without the hanger.

In order to hold the hanger in position, the sides E of the same are formed with slots M, each of which is respectively wide and narrow in size, so that the heads N of screws P may enter the wide portions of the slots, said screws being secured to the door frame or jamb Q, and the shanks of said screws afterward may occupy the narrow portions of the slots, said heads N overlapping the walls of said narrow portions, and thus the hanger is secured to said frame or jamb.

The operation is as follows:—The door R is opened and the inner side of the hanger fitted on the frame Q and moved outwardly to full extent, it sliding on the shanks of the screws, whereby the heads of the latter will retain the hanger in position, said heads then being inaccessible from without, while the hanger occupies its operative position. The door R is now closed, whereby it swings toward and against the open end C of the hanger and closes the same, thus preventing removal of the hanger by unauthorized parties from without. Where the device is designed for milk bottles, the milkman presents a bottle as filled to the hanger and moves it thereinto, so that its neck enters the passage G, and its flange H rides on the runway. The mouth of the bottle presses upwardly against the tongue J and raises the same owing to its resilient nature thus permitting the advance of the bottle. When the tongue clears the neck of the bottle, it drops to normal position, and a second bottle is then inserted in the hanger, when the above-named operations are repeated and the first bottle is pushed against the door R and the second bottle contacts with

the first bottle, while the lower end of the tongue is in front of the outer bottle and pressing against the neck thereof just below the flange, thus providing a barrier to the removal of said bottle, and consequently of both bottles, since the latter are comparatively immovable in the hanger, and the tongue cannot be raised above the flange H. When the milk is needed, the door R is opened, and the adjacent end C of the hanger uncovered, when both bottles can be drawn-out at said end. The hanger now may be removed by sliding it inwardly until the wide portions of the slots therein are in register with the heads of the screws P, when the hanger may be passed over said heads, the effect of which is evident. At the proper time, the hanger may be restored to operative position, the door closed, and the empty bottles placed within reach of the milkman, the latter then again inserting filled bottles into the hanger as before, and so the operations are repeated. Where the hanger is desired for holding a single bottle, it will be shortened, so as to hold the same tightly between the door and the locking tongue J, but, as is evident, the hanger may be lengthened for a greater number of bottles than what is shown. Both sides E of the body of the hanger are provided with slots M, to adapt the body for application right or left, as the case may be.

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

1. A safety bottle holder comprising a plate having depending sides provided with inturned flanges whereby to form a channel, open at both ends, for the reception of the bead on the neck of a bottle in one end, and its withdrawal through the other end, and

a spring tongue extending downwardly from the plate between the depending sides and toward one of the open ends of said channel, whereby to engage the mouth of the bottle and prevent its subsequent movement in one direction.

2. A safety bottle holder comprising the combination with a support having a movable portion, of a plate provided with depending sides having inturned flanges whereby to form a channel adapted to receive the bead on the neck of a bottle, which channel is open at its ends, for the free entry of the bead in one end, and its withdrawal through the other end, said plate being secured to said support with one of the ends of its said channel adjacent the movable part of the support, whereby the said end of the channel is closed when the movable part of the support is in position to cooperate with the holder, and a spring tongue extending downwardly from the plate, between the depending sides, and in the direction of the said closed end of the channel, and adapted to engage the mouth of a bottle and prevent its withdrawal through the opposite open end of the channel in which it is entered.

3. In a bottle holder, a hanger composed of a body having a runway on which a bottle may be slidably supported, and a tongue at the forward end of the hanger depending into the latter to engage the bottle and prevent its outward displacement, said tongue having a loop adapted to embrace the end portion of the body and being firmly secured thereto.

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Witnesses:

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