E. CHRISTENSEN.

BOTTLE SHELF AND LOCKER.

APPLICATION FILED JULY 6, 1915.

1,190,732.

Patented July 11, 1916.

2 SHEETS—SHEET 1.

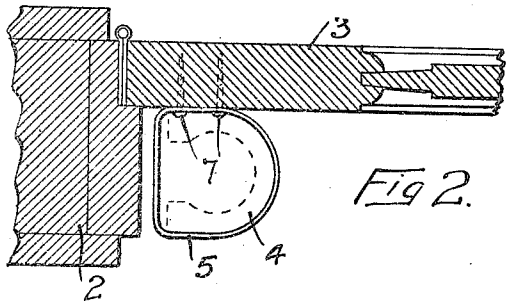


Fig 2.

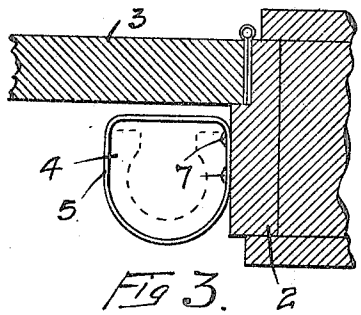


Fig 3.

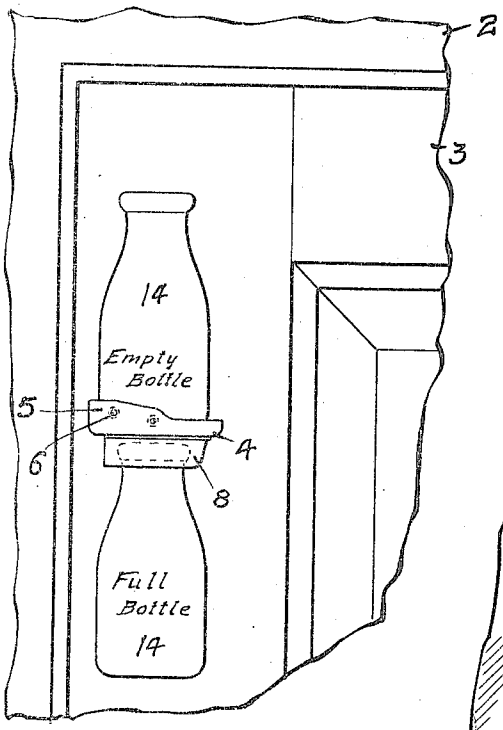


Fig 1.

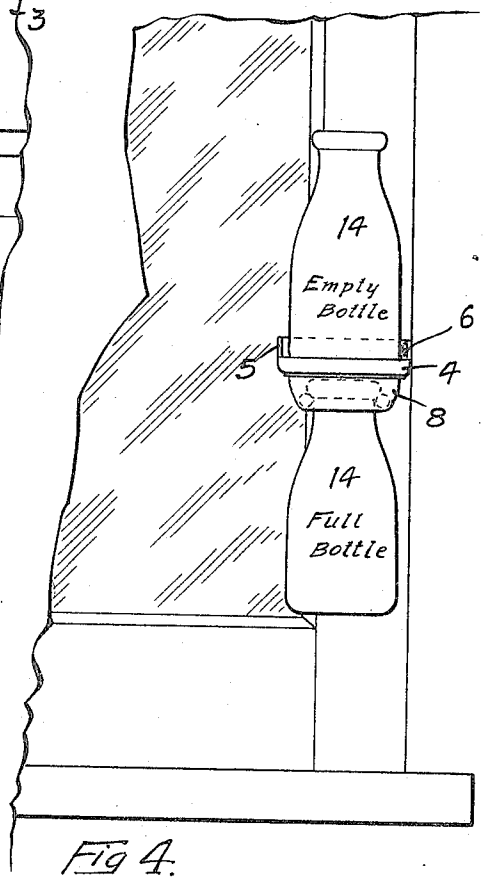


Fig 4.

WITNESSES

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2 SHEETS—SHEET 2.

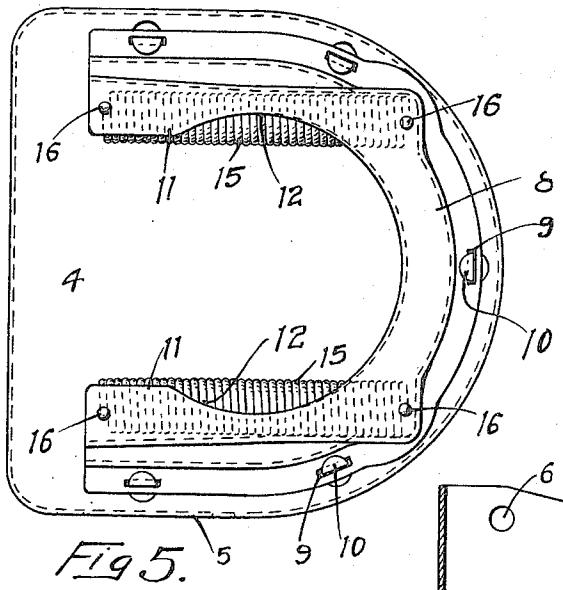


Fig 5.

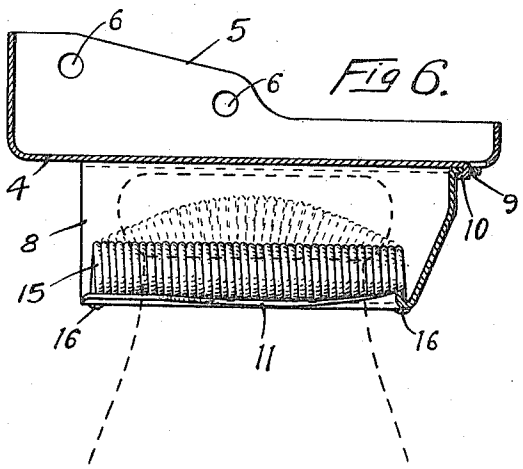


Fig 6.

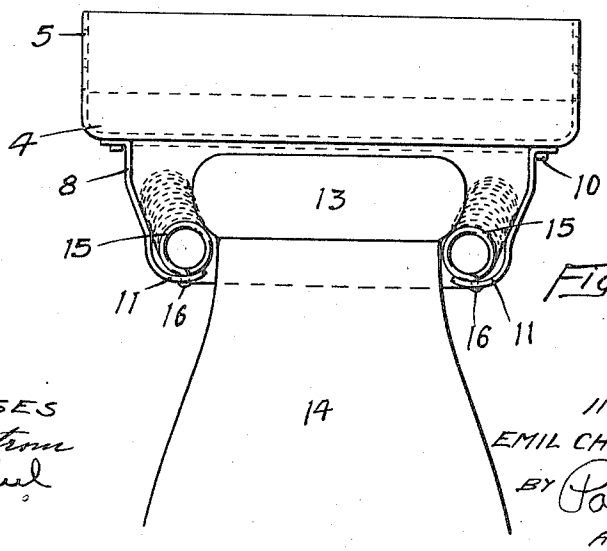


Fig 7.

WITNESSES

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BOTTLE SHELF AND LOCKER.

1,190,732. Specification of Letters Patent. Patented July 11, 1916.

Application filed July 6, 1915. Serial No. 38,288.

To all whom it may concern:

Be it known that I, EMIL CHRISTENSEN, a citizen of the United States, resident of Portland, county of Multnomah, State of Oregon, have invented certain new and useful Improvements in Bottle Shelves and Lockers, of which the following is a specification.

In delivering milk it has been customary for the milkman to place the full bottle on the door step or window ledge, where it can be easily stolen or broken.

The object of my invention is to provide a support for the full bottle into which it can be easily thrust and be secured locked until the door or window is opened.

A further object is to provide a locking support which will not require the use of a key to release the bottle.

A further object is to provide a shelf which is adapted for supporting an empty bottle.

Other objects of the invention will appear from the following detailed description.

In the accompanying drawings forming part of this specification, Figure 1 is an elevation, illustrating the application of my invention to the stile of a door, Fig. 2 is a sectional view of the same, Fig. 3 is a sectional view, showing the device mounted on the casing of a door instead of on the door itself, Fig. 4 is a view, corresponding to Fig. 1, showing the device mounted on the frame of a window, Fig. 5 is a bottom view of the locker, Fig. 6 is a sectional view through the same, Fig. 7 is an end elevation, looking to an opening through which the bottle is removed.

In the drawing, 2 represents a door casing and 3 a door.

4 is a shelf, having upright flanges 5 provided with holes 6 therein on one side to receive screws 7 or other fastening means for securing the shelf to the door stile. The shelf 4 is flat and of sufficient size to allow a milk bottle to be placed thereon. On the underside of the shelf is a hanger 8, U-shaped, substantially, in form, having slots 9 to receive lugs 10 provided on the underside of the shelf and preferably punched or pressed therefrom. This hanger is open at one side and has flanged lower edges 11. These edges are inwardly turned and have recesses 12 therein, forming an incomplete circular opening adapted to receive the rounded head 13 of a milk bottle 14. Suitable locking means, such as coiled springs 15, are secured at 16 to the flanges 11 and bridge the recess 12 in the path of the head of the bottle, sufficient space being provided above these springs to allow them to be forced upwardly under the pressure of the bottle head and separated sufficiently for the bottle head to slip between them, as indicated in Fig. 8, the outwardly flaring contour of the walls of the hanger providing sufficient space to receive the springs when they are forced upwardly by the pressure of the bottle. When the bottle head has been raised to a point above the springs, they will snap back again to a horizontal position under the bottle head and it will be securely locked, downward pull only serving to press the springs against the depending flange and effectually resisting any attempt to remove the bottle. The opening in the hanger allows the bottle to be pulled out horizontally, but this opening is not exposed until the door, as shown in Figs. 2 and 3, is opened, or the window illustrated in Fig. 4 is raised. Therefore, if the milkman inserts the head of the bottle into the hanger until the springs snap in under against the bottle neck, it will be impossible for the milk or cream to be stolen and it cannot be removed without breaking the bottle until the house door or window is opened. At such time the bottle can be easily and quickly removed from its support.

I do not wish to be confined to the means shown for locking the bottle in the hanger, or to the construction of the hanger itself, as in various ways it may be modified without departing from my invention.

I claim as my invention:

1. A milk bottle lock having means for securing it in the angle of a window or door casing and provided with inwardly inclined walls with an opening between them adapted to receive the neck of a bottle, coil springs secured to said walls and partially bridging said opening and adapted to be thrust upwardly when the neck of the bottle is pushed therein, said springs snapping downwardly under the enlarged portion of the neck for locking it in its support, said walls limiting the downward movement of said springs and having an opening on one side through which the bottle may be removed horizontally when the opening is exposed by the opening of the door or window.

2. A bottle lock having means for secur-

ing it in the angle of a window or door casing and provided with flaring walls with an opening between them to receive the neck of a bottle, springs secured to said walls and partially bridging said opening and adapted to be pressed upwardly when the neck of a bottle is pushed between them, said springs engaging the enlarged portion of the neck for locking it in its support and held against downward springing movement to release said neck, said walls having an opening on one side through which the bottle may be removed when the passage is exposed by the opening of the door or window.

In witness whereof, I have hereunto set my hand this 28 day of June 1915.

EMIL CHRISTENSEN.

Witnesses:
W. B. LIVINGSTON,
A. W. LIVINGSTON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."