

Jan. 28, 1941.

J. T. WEIR

2,230,173

MILK BOTTLE RECEPTACLE

Filed Dec. 2, 1938

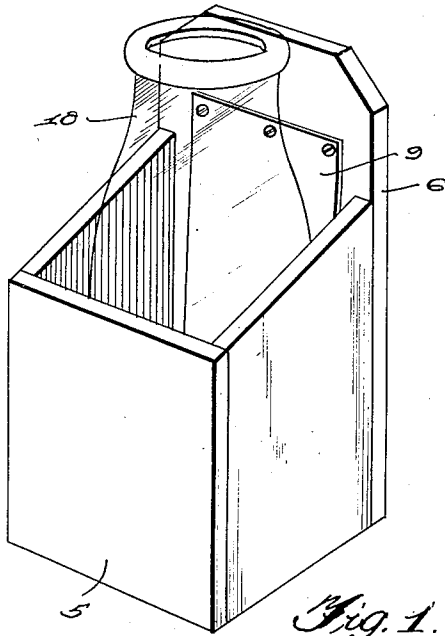


Fig. 1.

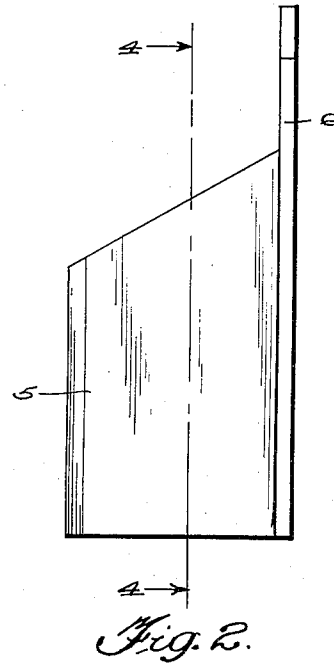


Fig. 2.

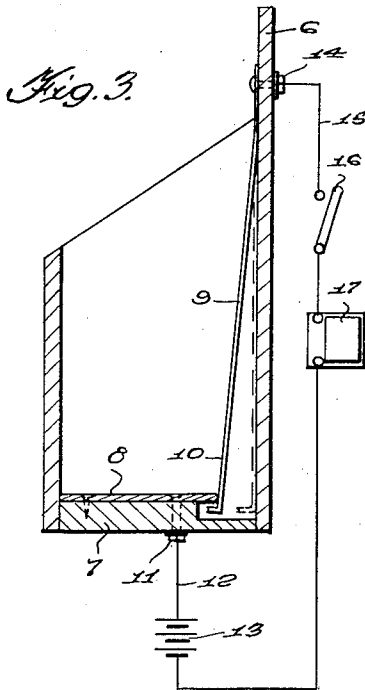


Fig. 3.

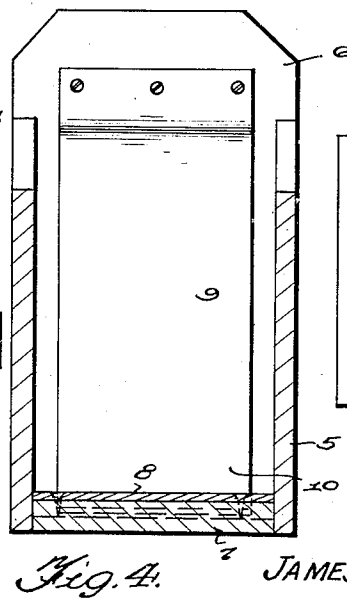


Fig. 4.

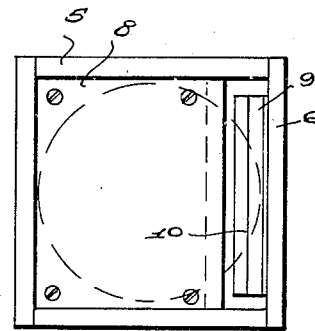


Fig. 5.

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UNITED STATES PATENT OFFICE

2,230,173

MILK BOTTLE RECEPTACLE

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Application December 2, 1938, Serial No. 243,627

1 Claims. (Cl. 200—52)

The present invention relates to receptacles for milk bottles and has for its primary object to provide a device of this character within which the bottle of milk is adapted to be deposited and embodying signalling means to indicate when an empty bottle is removed from the holder and another bottle placed in position therein.

A further object of the invention is to provide a milk bottle holder of this character embodying a pair of electrical contacts arranged in contacting engagement for energizing the circuit when the holder is empty, one of the contacts being movable and adapted to open the circuit when a milk bottle is placed in position in the holder.

Another object is to provide a device of this character of simple and practical construction, which is efficient and reliable in performance, relatively inexpensive to manufacture and install in operative position and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawing forming part hereof, wherein like numerals refer to like parts throughout, and in which—

Figure 1 is a perspective view.

Figure 2 is a side elevational view.

Figure 3 is a vertical sectional view.

Figure 4 is a similar view taken substantially on a line 4—4 of Figure 2, and

Figure 5 is a top plan view.

Referring now to the drawing in detail, the numeral 5 designates a milk bottle holder of insulation material and which preferably is of substantially box-like construction open at its top and including a back wall 6 adapted for attaching to a suitable supporting structure and also including a bottom 7.

Secured to the bottom 7, at the inside of the holder, is a stationary contact plate 8 and secured at its upper end to the inside of the back wall 6 is a spring contact plate 9 having its free end 10 yieldably held in contacting position with an adjacent edge portion of the contact 8 by the spring tension of the plate 9. The contact plate 9 is secured flatwise against the inner surface of the back wall 6 of the holder with its lower free end urged away from the wall toward the center of the box, as shown by the full lines in Figure 3 of the drawing.

A terminal 11 extends through the bottom 7

for engagement with the stationary contact 8 and to which a circuit wire 12 is attached extending to a suitable source of current 13. A terminal 14 also extends through the back wall 6 for engagement with the secured upper end of the movable contact 9, said terminal likewise having the circuit wire 15 connected thereto which also leads to the source of current 13 and has interposed therein the switch 16 and the signal 17, which in the present instance is illustrated as comprising a buzzer or other audible signal.

It will be apparent from the foregoing that when a milk bottle, such as indicated at 18, is positioned in the holder, the contact 9 will move out of contacting engagement with the contact 8 whereby the circuit will be broken.

When placing the device in use an empty milk bottle is placed in the holder, thereby separating the contact, and the switch 16 is then closed. When the empty milk bottle is removed from the holder, as by a deliveryman, the contact 9 will serve to close the circuit thereby sounding the alarm, and when the full bottle is placed in the holder the circuit will again be open, the device thus providing for a temporary closing of the circuit sufficient to indicate that the bottle of milk has been delivered to the holder.

It is believed the details of construction and manner of use of the device will be readily understood from the foregoing without further detailed explanation.

Having thus described the invention, what I claim is—

An electric switch for a box-like bottle holder in which the holder is open at its top, said switch comprising a stationary contact covering a portion of the bottom of the holder and a movable contact engageable therewith and said movable contact embodying a bottle actuated spring plate secured flatwise in a vertical position to an inner side wall of the holder adjacent the upper portion of the wall, said plate being inclined inwardly to gradually reduce the area of the box toward its bottom, the lower end of the plate being free for moving into and out of engagement with the stationary contact, said movable contact being in the path of the bottle for wiping engagement therewith during its inserting and withdrawing movement to make and break connection with the stationary contact.

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