

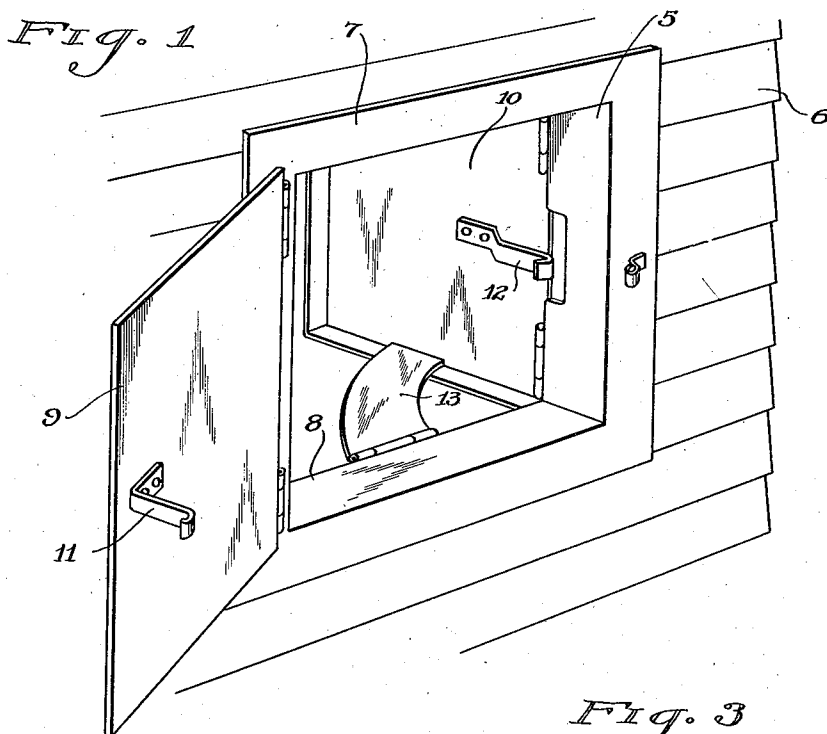
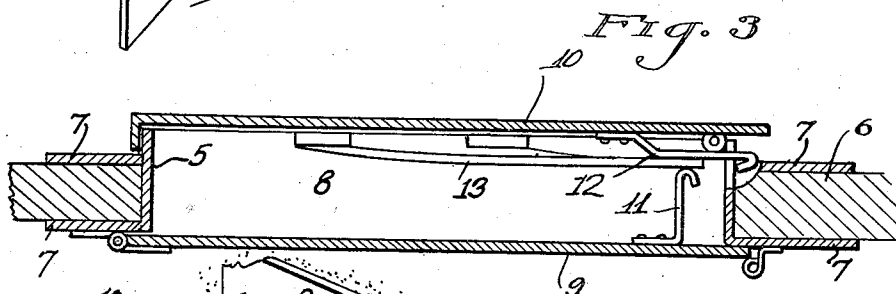
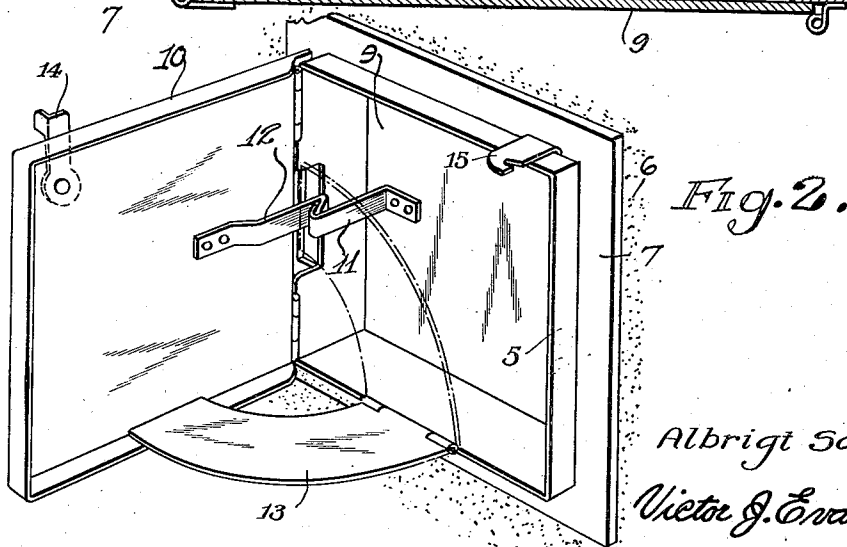
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DELIVERY SHUTTER

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DELIVERY SHUTTER

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1 Claim. (Cl. 232—1)

The present invention relates to a new and improved delivery shutter mechanism.

The primary object of the invention is the provision of a shutter mechanism adapted to be positioned within a wall or a door of a building or the like and adapted to be utilized for delivering articles such as milk, groceries or the like, delivered by a tradesman, and to prevent access to the interior of the delivery mechanism after the articles are delivered.

In the delivery of the mentioned articles of merchandise, particularly bottled milk and other edible products, the element of sanitation and protection against tampering or theft are essential features of delivery devices. It will also be observed that such deliveries must be accomplished in a minimum of time and therefore the delivery man should not be required to use lock keys to gain access to the delivery equipment.

In view of the above, a further object of the invention is to provide a delivery shutter comprising improved means by which the locking of the closure or shutter against subsequent opening is effected by the delivery man after the placement of the articles within the device.

Another object resides in the provision of a delivery shutter which, after the delivery of the articles is effected, protects same against theft and assures the maintenance of the merchandise in a clean, sanitary condition.

The invention will be fully and comprehensively understood from a consideration of the following detailed description when read in connection with the accompanying drawing which forms part of the application.

In the drawing:

Fig. 1 is a perspective view of the outside of a building wall and illustrating the delivery shutter positioned therein.

Fig. 2 is a perspective view of the delivery shutter mechanism as it appears on the inside of the building after a delivery has been made; and

Fig. 3 is a fragmentary sectional view thru the mechanism and illustrating the position of the locking mechanism when the doors are in closed position.

Referring to the drawing for a more detailed description thereof, the numeral 5 indicates a frame supported in an opening in the wall of a building 6 and includes marginal edges 7 that project beyond the opening and lie adjacent the walls of the building. The interior 8 of the frame 5 illustrates substantially the width of the sill portion of the opening provided within the wall and it is to be understood that marginal

edges are provided on the interior of the building similar to edges 7.

To opposed sides of the frame 5 are hingedly mounted an outside door 9 and an inside door 10 which are adapted to lie flush with said frame when in closed position. The outside door 9 has affixed thereto a latch member 11 and the inside door 10 has affixed thereto a corresponding latch member 12 and when the doors are in the position illustrated in Fig. 2 of the drawing, the hooked ends of said latch members are engaged to lock the outside door, thus preventing access to the interior of the building after a delivery has been made.

On the lower edge of the frame 5 is swingably mounted an arcuate shaped plate 13 which is so arranged that its free edge retains the inside door 10 in full open position when said plate is extended. When the doors are in their closed position, the plate 13 swings upwardly to the position illustrated in dot and dash lines in Fig. 2 of the drawing. It will be noted that the plate 13 in lowered position may serve as a shelf or receptacle for retention of the delivered articles thereon. In such function the lowermost flange of the door 10 provides a rest for the free edge of the plate 13.

In the operation of the delivery shutter mechanism, both doors are normally closed and the plate 13 is swung upwardly into position between the two doors. When access to the interior of the building is required, the tradesman opens the outside door 9 and the inside door 10 and at the same time lowers the plate 13 to the position shown in full lines in the drawing. Fig. 1 represents the position of the doors and the plate when a delivery is being made. After delivery of the article, the outside door 9 is closed, whereupon latch member 11 carried on said door engages the member 12 supported on the inside door 10 with a snap action, thus locking the outer door 9 thereby preventing theft of the delivered articles.

The position of the respective latch members 11 and 12 when both doors are in closed but unlocked position is clearly illustrated in Fig. 3 of the drawing. It is of course to be understood that the inner door 10 may be opened at any time by one inside the room, at which time the latch member 12 will engage the member 11, thus locking the outer door without requiring the use of members 14 and 15.

When it is desired to substantially prevent operation of the delivery mechanism as hereinbefore described, the pivoted member 14 carried

by the inner door 10 can be swung into engagement with a slotted keeper 15 supported on the inner marginal edge of the frame 5, thereby precluding unauthorized opening of the inner door while leaving the outer door unlocked.

It will be seen from the foregoing that the invention provides a delivery shutter device comprising inner and outer doors hingedly mounted on opposed members of a suitable frame defining an opening in a building wall or other portion of a dwelling, the mentioned doors being equipped with complementary latch members so arranged that, upon opening the outer door and moving the inner door to substantially full open position, and making the delivery and then closing the outer door the members 11 and 12 will interengage, and door 9, therefore, will be locked against subsequent opening. It will also be noted that the provision of a plate, also hingedly mounted on the mentioned frame, presents a receptacle or shelf for the placement of articles thereon and also serves to retain the inner door in open position. Before delivery is made, the inner door being closed, serves to conceal the delivery opening as well as providing a double

closure for same in conjunction with the outer door.

It is to be understood that this improvement is capable of extended application and is not confined to the exact showing of the drawing nor to the precise construction described and, therefore, such changes and modifications may be made therein as do not affect the spirit of the invention nor exceed the scope thereof as expressed in the appended claim.

What is claimed as new and useful is:

A delivery shutter mechanism of the character described comprising, a frame adapted to be positioned in the wall of a building, an outer door hinged on one edge of said frame, an inner door hinged on the opposed edge of said frame, a plate pivotally attached to the lower portion of said frame and adapted to hold the inner door in extended position, means for locking the outer door while said inner door is in extended position, said means including hook-shaped latch members carried by each door for engagement with each other.

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