J. HARTMAN.

DEPOSIT AND COLLECTION RECEPTACLE.

APPLICATION FILED JUNE 11, 1908.

908,770

Patented Jan. 5, 1909.

3 SHEETS—SHEET 1.

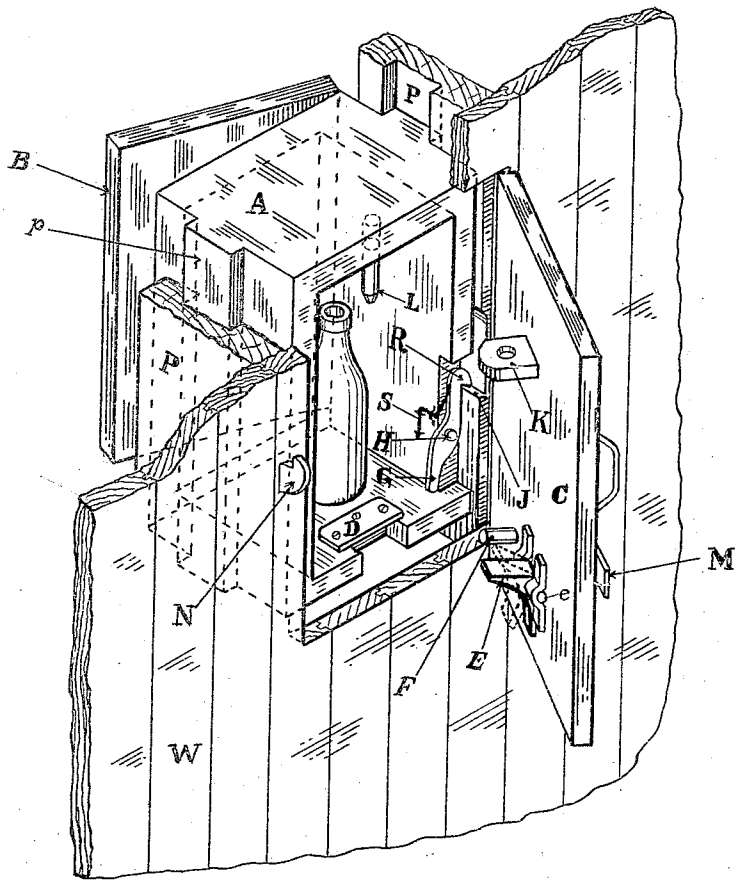

Fig. 1.

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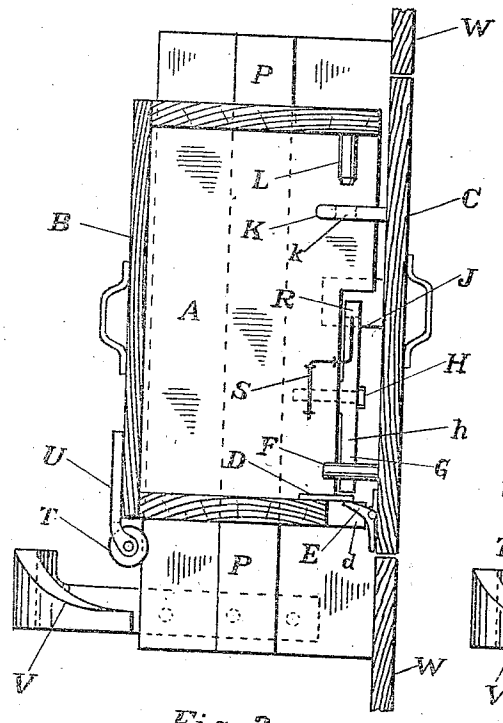

Fig. 2.

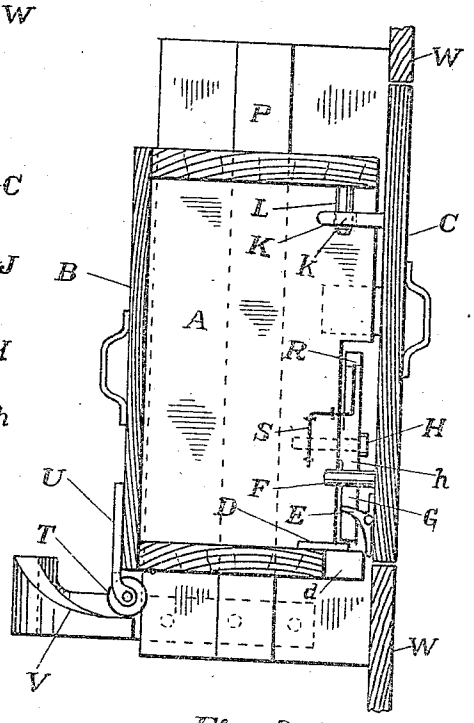

Fig. 3.

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3 SHEETS—SHEET 3

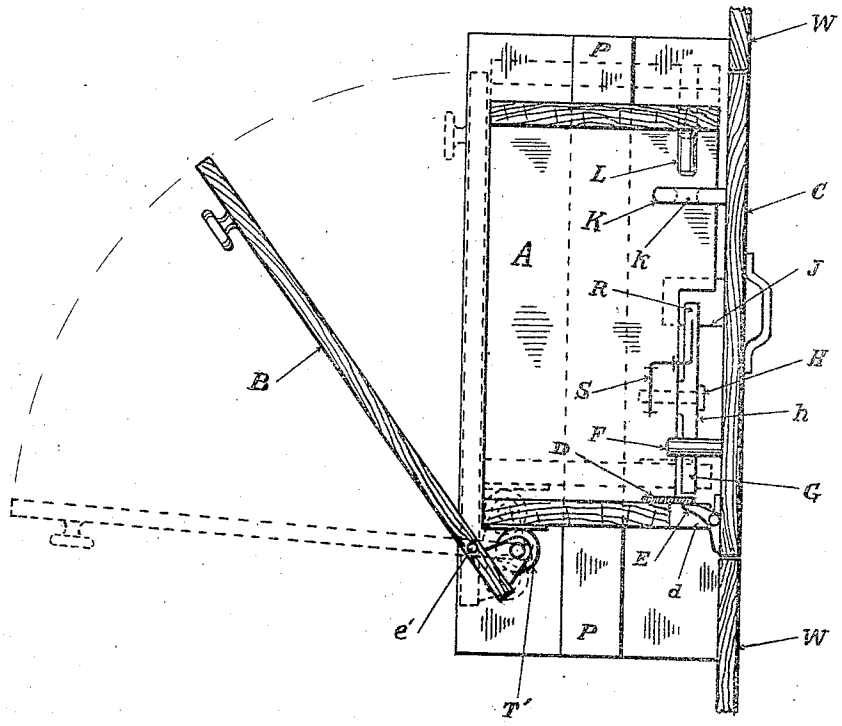

Fig. 4.

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JACOB HARTMAN, OF ROCHESTER, NEW YORK.

DEPOSIT AND COLLECTION RECEPTACLE.

No. 908,770. Specification of Letters Patent. Patented Jan. 5, 1909.

Application filed June 11, 1908. Serial No. 437,905.

To all whom it may concern:

Be it known that I, JACOB HARTMAN, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Deposit and Collection Receptacles, of which the following is a specification.

This invention relates to deposit and collection receptacles, and has for its object to provide a box for the reception of milk, groceries, etc., having a door which opens to the outside, and another door which opens to the inside of the building, the outside door being so arranged that when once closed it is automatically locked and cannot be opened again from the outside until the inner door is opened, and when the inner door is closed the locking mechanism of the outer door is automatically reset.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view showing both doors open. Figs. 2 and 3 are sectional views showing the parts in different positions. Fig. 4 is a section of a modification.

Referring specifically to the drawings, it will be seen that the device consists of a box or frame A which is open at its front and rear ends and carries a door B opening to the inside of the building. This box is mounted to slide up and down between vertical guide strips P secured to the wall W on the inside thereof. The strips have guide grooves receiving tongues *p* on the side walls of the box. In the wall W of the building is an opening fitted with a door C which is hinged to said wall and is adapted to close the open front end of the box. The last mentioned door carries a latch M which is engageable with a catch N on the wall W.

The top of the box, on the inside thereof, carries a depending pin L which is adapted to enter a hole *k* in a lug K projecting from the back of the door C. The front edge of the bottom of the box has a recess *d* over which extends a plate D which is engageable by a latch E pivoted at *e* to the back of the door C. This latch is so arranged that it will support the box when it is extended under the plate D.

In the front edge of one of the side walls of the box is a recess *r* in which is pivoted at H, a trigger *h* having one of its ends hook-shaped, as indicated at R, to engage a notch J in one of the strips P. The other end G of the trigger is in the path of a pin F projecting from the back of the door C, the parts being so arranged that when the pin strikes the trigger, the latter swings on its pivot, and its hooked end is disengaged from the notch J.

The door B carries a roller T which is adapted to travel on an incline V secured to one of the strips P. The incline is so located that the roller travels up the same when the door B is opened and down the same when it is closed, and as the door is fixed to the box A, it will be seen that the box will be raised when the door is opened, and lowered when it is closed.

The parts herein described operate as follows: Let it be assumed that the door C is closed and locked by the latch M, and that the door B is ready to be shut. The closing of the door B allows the box A to drop a little and rest with the plate D on the latch E. Now, if the door C is opened, it withdraws the latch E from under the plate D and lets the box A drop slightly, whereby the hooked end R of the trigger *h* engages the notch J. This supports the box A in position to receive the bottle of milk, groceries, or other articles, and when the same have been placed in the box the door C is closed. When the door swings shut the latch E comes above the plate D, and the pin F strikes the trigger *h*, causing it to swing on its pivot and to unhook from the notch J, whereby the box A is released and it thereupon drops down, causing the pin L to enter the hole in the lug K, thus locking the door C and preventing it from being again opened until the inside door B has been operated to raise the box A and reset the mechanism. When the door B is swung open the roller T travels up the incline V and thus elevates the box A, whereby the pin L is withdrawn from the hole in the lug K. As the box rises, the plate D lifts the latch E and, in passing, allows the latter to drop back ready to engage the plate D when the box A descends with the closing of the door B, already referred to. This completes the cycle of movements and the door C is now again unlocked and the box is ready to receive the goods.

Fig. 2 shows the position of the parts when the locking mechanism has been reset and the box A is ready to receive the goods, and Fig. 3 shows the door C closed and locked.

In the modified form shown in Fig. 4 the

door B is pivoted at e', adjacent the bottom of the box, and when the door is opened, the roller T' at its lower end acts to lift the box.

I claim:

1. A deposit and collection receptacle provided with a pair of doors, a lock for one of said doors, means operated by the closing movement of the said door for causing the lock to fasten, and means operated by the opening movement of the other door for releasing said lock.

2. A deposit and collection receptacle provided with outer and inner doors, an automatic lock for the outer door, engageable when the door is closed, means operated by the opening movement of the inner door to release the lock, and by its closing movement to set the lock to reëngage the outer door when it is again closed.

3. A deposit and collection receptacle comprising a support, a box slidably mounted therein, a door for the box connected to the support, a lock for the door operated by raising or lowering the box, means for raising the box, to release the lock, and means for releasing the box when the door is closed, to allow the box to drop and cause the lock to fasten.

4. A deposit and collection receptacle comprising a support, a box slidably mounted therein, a door for the box connected to the support, locking means for the door adapted to lock the same when the box is lowered, and to unlock the same when it is elevated, a catch carried by the box and engaging the support to hold the box in raised position, and a device carried by the door and engaging the catch to release the same when the door is closed.

5. A deposit and collection receptacle comprising a support, a box slidably mounted therein, a pair of doors for the box, one of said doors being connected to the support, locking means for the last mentioned door, adapted to lock the same when the box is lowered and to release the same when it is elevated, means for holding the box in elevated position, means for releasing the box when the last mentioned door is closed, and means operated by the other door for elevating the box.

6. A deposit and collection receptacle comprising a support, a box slidably mounted therein, a pair of doors for the box, one of said doors being connected to the support, locking means for the last mentioned door adapted to engage the same when the box is lowered and to release the same when it is elevated, means for holding the box in elevated position, means for releasing the box when the last mentioned door is closed, to allow the box to drop, and means operated by the other door for elevating the box to open the lock and to reset the box.

7. A deposit and collection receptacle comprising a support, a box slidably mounted therein, a pair of doors for the box, one of said doors being connected to the support, locking means for the last mentioned door adapted to engage the same when the box is lowered and to release the same when it is elevated, means for holding the box in elevated position, means for releasing the box when the last mentioned door is closed, means operated by the other door for elevating the box, and a latch carried by the first mentioned door and engageable with the box when said door is closed, for holding the lock in reset position.

8. A deposit and collection receptacle comprising a support, a box slidably mounted therein, a pair of doors for the box, one of said doors being connected to the box and the other to the support, means for locking the last mentioned door, adapted to engage the door when the box is lowered and to release the same when it is elevated, means for holding the box in elevated position, means for releasing the box when the last mentioned door is closed, and an incline engageable by the first mentioned door when it is opened for elevating the box to open the lock.

In testimony whereof I affix my signature, in presence of two witnesses.

JACOB HARTMAN.

Witnesses:
HENRY BENKE,
ARTHUR B. NORRIS.