J. W. CUTLER.

MAIL BOX.

APPLICATION FILED JAN. 29, 1913.

1,138,633.

Patented May 11, 1915.

3 SHEETS—SHEET 1.

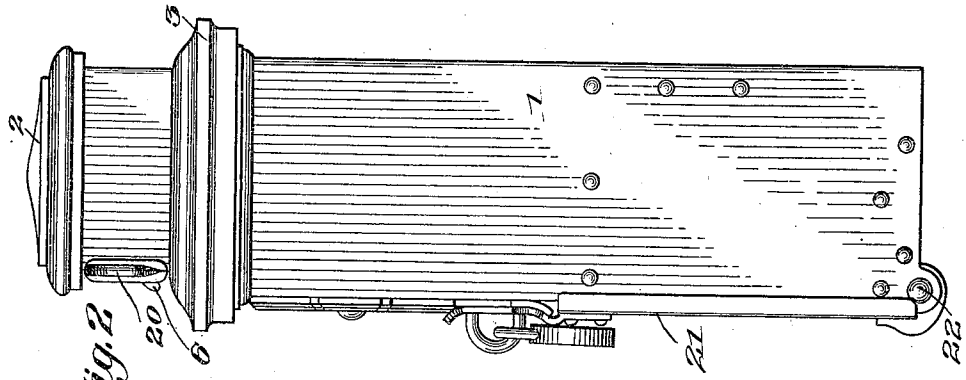


Fig. 2

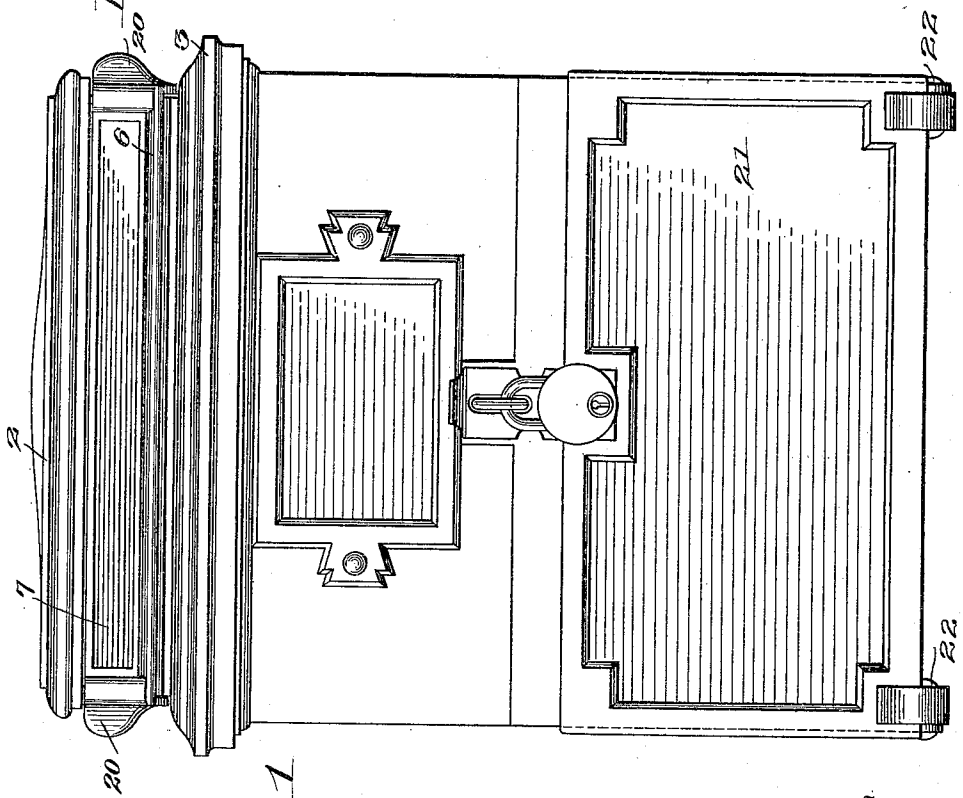


Fig. 1

Witnesses

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3 SHEETS—SHEET 2.

Fig. 3

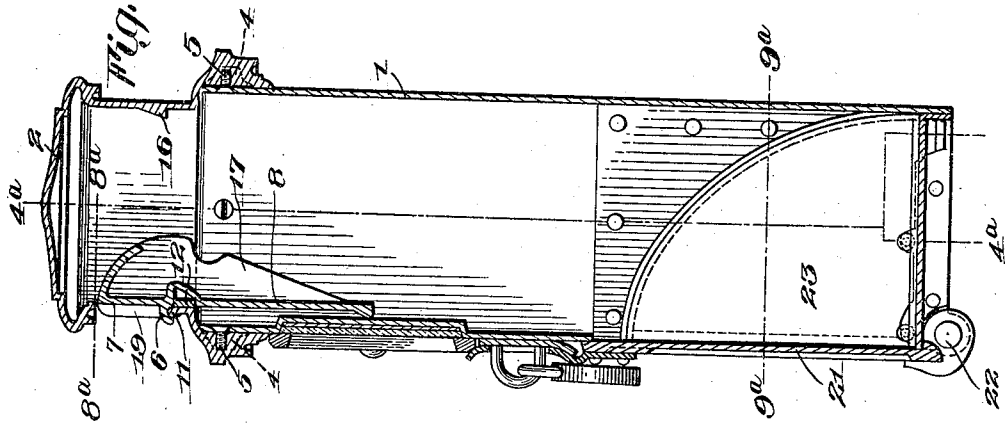
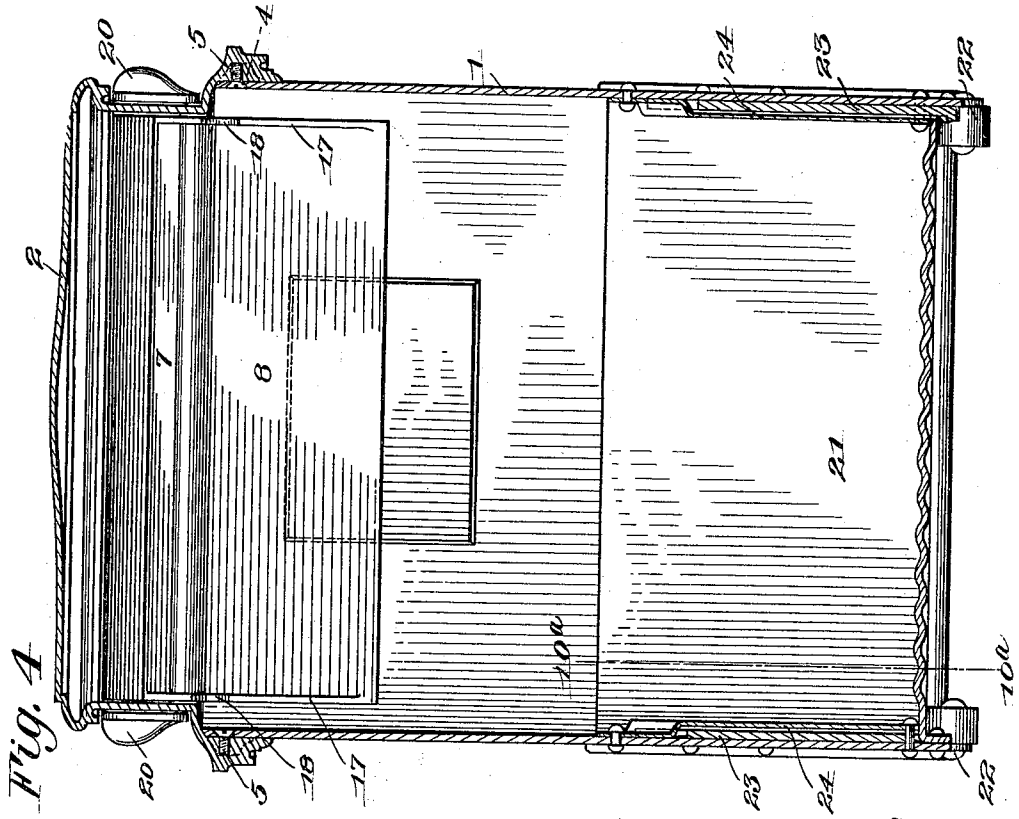


Fig. 4



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3 SHEETS—SHEET 3.

Fig. 5

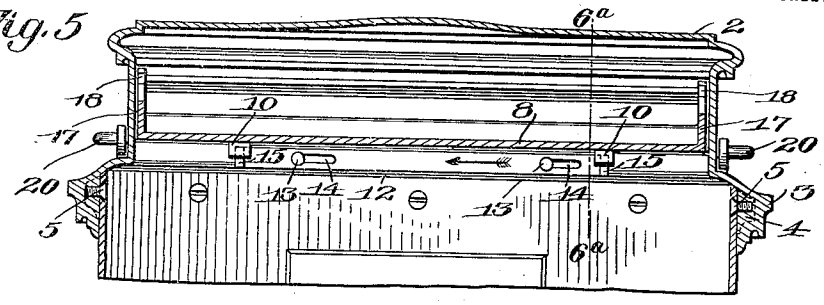


Fig. 6

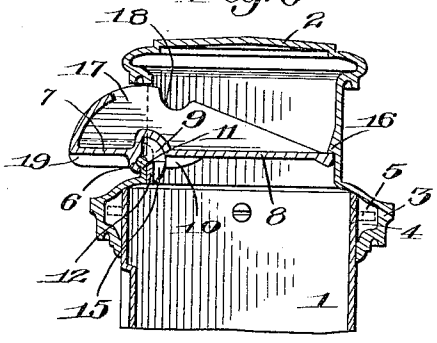


Fig. 7

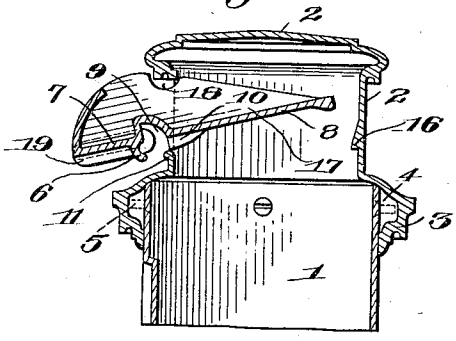


Fig. 8

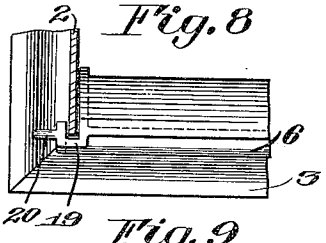


Fig. 9

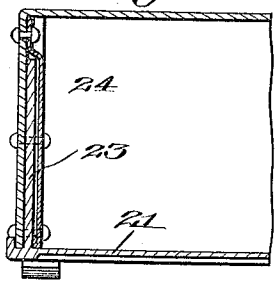
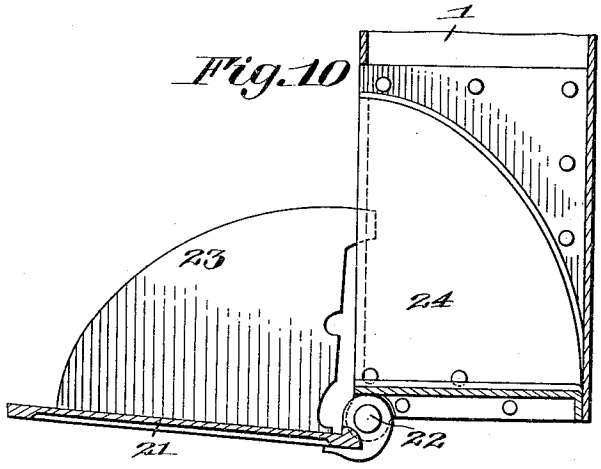


Fig. 10



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH WARREN CUTLER, OF ROCHESTER, NEW YORK, ASSIGNOR TO CUTLER MAIL CHUTE COMPANY, OF ROCHESTER, NEW YORK.

MAIL-BOX.

1,138,633. Specification of Letters Patent. Patented May 11, 1915.

Application filed January 29, 1913. Serial No. 744,889.

To all whom it may concern:

Be it known that I, JOSEPH W. CUTLER, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Mail-Boxes; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference numerals marked thereon.

The present invention relates to mail boxes, and more particularly to street receptacles in which letters and similar pieces of mail are deposited, and it has for its object to provide a box with a pivotally mounted or swinging door which is removable and can be readily secured in operative relation, or quickly removed when this is desirable.

A further object of my invention consists in so constructing and arranging the elements of the box as to employ but few parts, while at the same time affording an economical and efficient construction.

To these and other ends the invention consists in certain improvements and combinations of parts all as will be hereinafter more fully described, the novel featurs being pointed out in the claims at the end of the specification.

In the drawings: Figure 1 is a front elevation of a mail box constructed in accordance with a preferred embodiment of my invention; Fig. 2 is a side elevation of the same; Fig. 3 is a transverse, vertical sectional view; Fig. 4 is a sectional view on the line 4^a—4^a of Fig. 3; Fig. 5 is a vertical, sectional view of the upper portion of the box, taken in the same plane as Fig. 4, and showing the door open; Fig. 6 is a transverse, sectional view on the line 6^a—6^a of Fig. 5; Fig. 7 is a view similar to Fig. 6, with the door in the position of being removed; Fig. 8 is a sectional view on the line 8^a—8^a of Fig. 3; Fig. 9 is a sectional view upon the line 9^a—9^a of Fig. 3, and Fig. 10 is a sectional view upon the line 10^a—10^a of Fig. 4, with the lower closure open.

Similar reference characters throughout the several views indicate the same parts.

According to the present embodiment of my invention, there is provided a receptacle embodying a body portion 1 and a top portion 2 which is provided with a flange 3 arranged to surround the upper end of the body portion. Said flange 3 carries a series of lugs 4 which receive the screws 5 or other securing means which are positioned from the interior of the receptacle, and extend through the body portion into the lugs on the flange of the top portion. The top portion is provided with an opening in its front wall through which the pieces of mail are inserted, said opening being normally closed by a door which is pivotally arranged therein as will appear hereinafter, and comprises a supporting portion in the form of a curved flange 6.

7 designates the closure portion which fits in the opening in the top portion of the receptacle and 8 is a downwardly extending flap portion which serves as a cut-off for the bottom of the receptacle when the door is open as shown in Fig. 6. Between the closure portion 7 and the flap portion 8, the door is formed so as to provide a recess 9 which is disposed adjacent to the supporting portion 6, while 10 are projections formed upon the flap portion 8 of the door at points adjacent to the recess 9 for a purpose that will presently be made clear.

When in its operating position, the door rests and pivots upon the ledge 11 at the base of the opening in the top portion of the receptacle, and it is held in such operative position by a movable locking member, which is preferably arranged on the receptacle, and may comprise a slide 12 having a limited movement on the pins 13 by means of the slots or openings 14 formed in the slide. The slide is provided, preferably at its ends, with abutments 15 which coöperate with the projections 10 on the door to prevent removal of the door, when the slide is in locking position as shown in Figs. 5 and 6. In this position the recess 9 permits turning of the door about the abutments 15. The end of the flap portion 8 engages with a shoulder 16 on the rear wall of the receptacle, to limit the opening movement of the door. The door is provided at its ends with lateral flanges 17, and these have recesses or cut-away portions 18 arranged at points between the upper and lower extremities of the door so as to permit its removal in the manner shown in Fig. 7. To remove the door, the locking member 12 is moved in the direction of the arrow in Fig. 5, being reached from the interior through the lower closure to be mentioned hereinafter, and this

disengages the abutments 15 on the locking member from the projections 10 on the door, and permits the door to be lifted and withdrawn through the opening in the top portion of the receptacle. The door is limited in its inward or closing movement by means of the flange portions 19 which are provided with extensions or finger pieces 20 by which the door may be conveniently operated, its closing being effected by the weight of its lower end. The bottom of the receptacle is reached through the lower closure 21 which is pivoted at 22 and embodies the side walls 23 adapted to be positioned adjacent to the side walls of the receptacle when the closure is locked. 24 designates supplemental partitions attached to the side walls of the receptacle and arranged to house the walls 23 of the closure as shown in Fig. 9. By this construction, the removable door may be readily secured in position by access through the closure 21 when the latter is opened, and after the locking member is once adjusted to its locking position as shown in Fig. 5, the door cannot be removed from the outside, except by someone in authority having a key to open the lower closure. This affords an extremely simple construction which is not expensive to manufacture and successfully accomplishes the essential objects in devices of this character.

In the claims:

1. The combination with a receptacle having an opening therein, of a door pivotally mounted and adapted to swing within the opening, the opening being of a size to permit removal of the door from the receptacle when in a predetermined position, and a locking member adjustably mounted on one of said parts, said locking member when in one position having engagement with the other part, and when in another position being disengaged from said other part and permitting the door to be removed.

2. The combination with a receptacle having an opening therein, of a door pivotally mounted within the opening, the opening being of a size to permit removal of the door from the receptacle when in a predetermined position, and a locking member adjustably mounted on the receptacle, said locking member when in one position having engagement with the door to prevent its removal, and when adjusted to another position, being disengaged from the door and permitting its removal.

3. The combination with a receptacle having an opening therein, of a door pivotally mounted within the opening, the opening being of a size to permit removal of the door from the receptacle when in a predetermined position, a locking member slidably arranged on the receptacle, and projections arranged on the door, said locking member engaging the projections on the door when in one position and being disengaged from said projections when adjusted to another position.

4. The combination with a receptacle having an opening therein, of a door pivotally mounted within the opening, said door being removable from the receptacle through the opening when in a predetermined position, projections arranged on the door, a locking slide carried by the receptacle, and abutments on the slide engaging said projections on the door when in one position to prevent removal of the door, and disengaged therefrom in another position to permit removal of the door.

5. The combination with a receptacle having an opening therein, of a door pivotally mounted within the opening, said door being removable from the receptacle through the opening when in a predetermined position, and a locking slide carried by one of said parts, projections on the other of said parts, the aforementioned slide having abutments coöperating with said projections to prevent removal of the door when in one position and to permit removal of the door when in another position.

6. The combination with a receptacle having an opening therein, of a door embodying a supporting portion engaging the receptacle at the base of said opening, the door being removable through the opening when in a predetermined position, projections on the door arranged in spaced relation to the supporting portion, a locking member carried by the receptacle and movable thereon, said locking member coöperating with the aforementioned projections to prevent removal of the door when in one position and to permit removal of the door when in another position.

7. The combination with a receptacle having an opening therein, of a door embodying a closure portion, a supporting portion, and a depending flap portion, laterally extending flanges at the ends of the door, each having a recess disposed between the top and bottom of the door, the door being removable from the receptacle through said opening when in a predetermined position, projections on the door arranged in spaced relation to the supporting portion, a slidable locking member carried by the receptacle, abutments carried by the locking member and coöperating with the projections on the door to prevent removal of the door when in one position and to permit removal of the door when in another position, and means carried by the receptacle for limiting the movement of the door when said abutments are in locking relation with the projections on the door.

8. In a receptacle, the combination with a body portion, of a top portion surrounding the upper end of the body portion and se-

cured thereto by a fastening means passing from the interior through the body portion and into the top portion, said top portion being provided with an opening in one wall, a door pivotally arranged to swing within said opening, and removable from the receptacle through the opening, and a locking member carried by the top portion and slidable thereon, coöperating with the door when in one position to prevent its removal and to permit its removal when in another position.

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Witnesses:
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E. L. FLACK.

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