M. M. MARCUSE.

SHEET DELIVERY RECEPTACLE.

APPLICATION FILED JUNE 20, 1916.

1,216,713.

Patented Feb. 20, 1917.

2 SHEETS—SHEET 1.

Fig. 1.

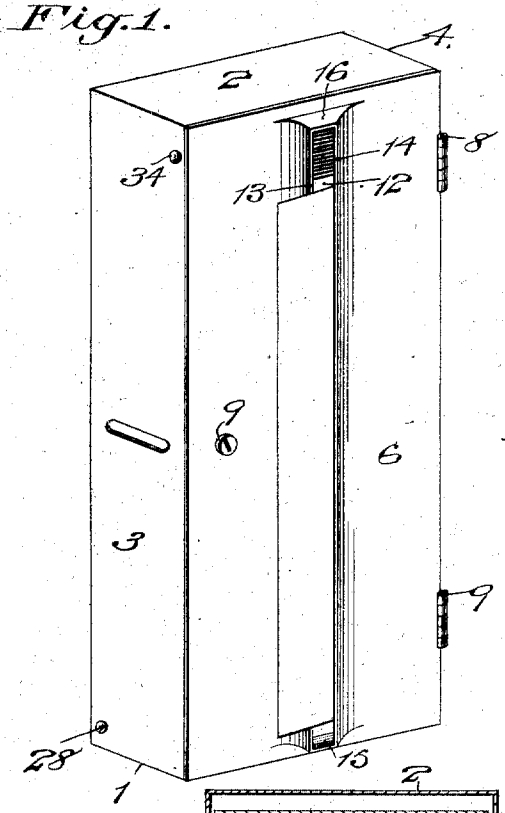


Fig. 2.

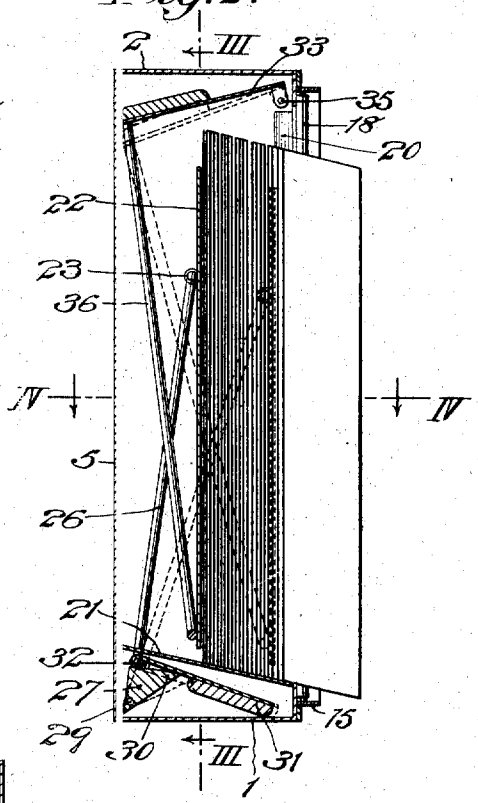


Fig. 3.

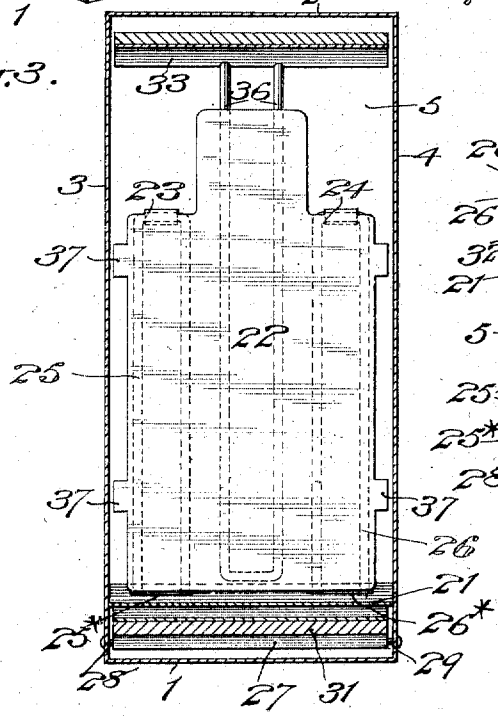
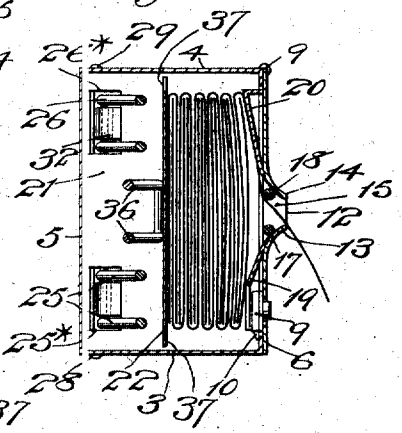


Fig. 4.



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2 SHEETS—SHEET 2.

Fig. 5.

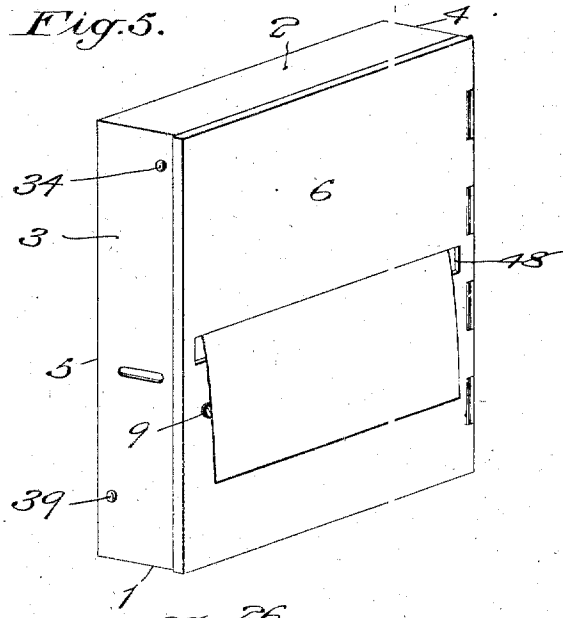


Fig. 7.

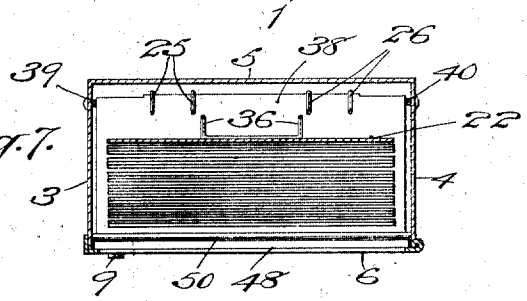


Fig. 8.

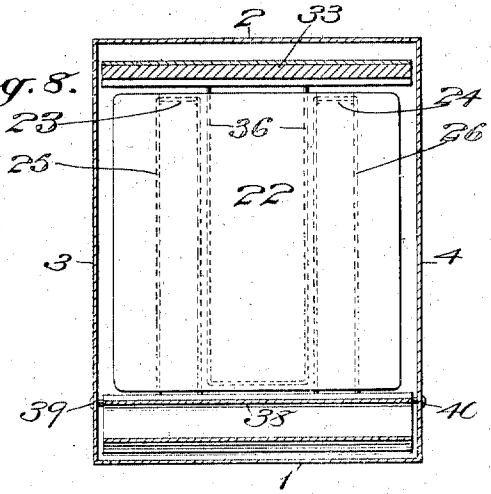
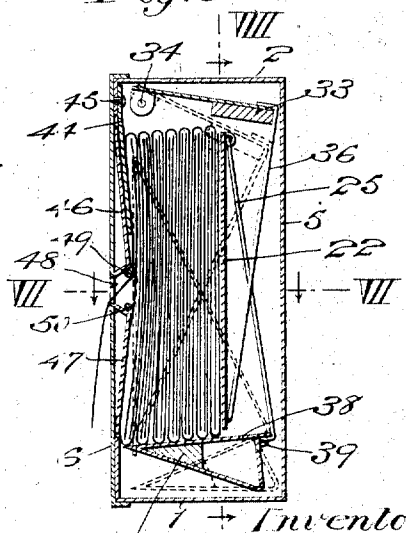


Fig. 6.



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UNITED STATES PATENT OFFICE.

MOSES M. MARCUSE, OF NEW YORK, N. Y., ASSIGNOR TO WEST DISINFECTING COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

SHEET-DELIVERY RECEPTACLE.

1,216,713. Specification of Letters Patent. Patented Feb. 20, 1917.

Application filed June 20, 1916. Serial No. 104,782.

To all whom it may concern:

Be it known that I, MOSES M. MARCUSE, a citizen of the United States, and resident of the borough of Manhattan, in the city and State of New York, have invented a new and useful Improvement in Sheet-Delivery Receptacles, of which the following is a specification.

This invention relates to sheet delivery receptacles with the object in view of providing a receptacle which is particularly well adapted for use in delivering interfolded sheets of paper, as, for instance, paper towels arranged on edge within the receptacle.

A further object is to provide a means within the receptacle whereby the sheets will be held in close relationship and toward the delivery opening in the front wall of the receptacle.

A still further object is to provide certain improvements in the form, construction and arrangement of the several parts of the receptacle whereby the sheets may be readily withdrawn one at a time without undue friction.

Practical embodiments of my invention are represented in the accompanying drawings, in which—

Figure 1 represents one form of a receptacle in perspective, the free end of the front sheet of the group being shown projecting through the delivery slot,

Fig. 2 is a vertical central section taken from front to rear through the receptacle,

Fig. 3 is a vertical section taken in the plane of the line III—III of Fig. 2,

Fig. 4 is a horizontal section taken in the plane of the line IV—IV of Fig. 2,

Fig. 5 represents a modified form of receptacle in perspective, with the free end of the front sheet of the group projecting through its delivery slot,

Fig. 6 is a vertical central section taken from front to rear through the receptacle,

Fig. 7 is a horizontal section taken in the plane of the line VII—VII of Fig. 6, and

Fig. 8 is a vertical section taken in the plane of the line VIII—VIII of Fig. 6.

The rectangular receptacle has its bottom denoted by 1; its top by 2; its sides by 3, 4; its back by 5 and its front by 6. The front is herein shown as a door hinged at 7, 8, to the side wall 4, and its free end provided with a suitable lock 9, the bolt 10 of which is arranged to engage the back of the inwardly turned flange 4 of the side wall 3.

In the form shown in Figs. 1 to 4 inclusive, a vertically arranged delivery slot is provided through the front door 6 while in Figs. 5 to 8 inclusive, the delivery slot is horizontally arranged. To facilitate the removal of the interfolded sheets and to reduce the friction thereon, the adjacent edges of the slot 12, as shown at 13, 14, Figs. 1 to 4 inclusive, are curved to form oppositely convexed walls for the slot. The projecting edges of the slot are provided with a bottom 15 and a top 16 in which rollers 17, 18, are mounted in position to be engaged as the sheets are withdrawn. Inclined guide plates 19, 20, are provided on the inside of the front door for still further eliminating the friction on the sheets, and also serves to bow the front sheets outwardly thereby facilitating their removal.

An upwardly and rearwardly inclined floor 21 is spaced a distance from the bottom 1 and extends from the front to the rear wall within the receptacle, upon which bottom the edges of the group of interfolded sheets rest. This inclination of the bottom 21 tends to keep the sheets fed forwardly toward the delivery slot.

In order that the sheets may be pressed toward the front door 6 and that the pressure upon the sheets will be uniform, I provide a plate follower 22 which is hinged at 23, 24, to supports 25, 26, fixed to a bar 27 which is pivoted at 28, 29, in the side walls 3, 4. The floor 21 is cut away at 25*, 26*, to allow the supports 25, 26, to pass therethrough. The bar 27 is provided with a forwardly extended shoulder 30 which is adapted to be engaged by a weight 31 hinged at 32 to the bar 27. The function of the weight 31 and the shoulder 30 is to remove the effect of the weight 31 upon the plate follower when the number of sheets has been reduced to a predetermined amount to automatically reduce the forward pressure on the group of sheets.

To exert a pressure upon the bottom of the plate follower 22, a weighted lever 33 is pivoted at 34, 35, in the side walls 3, 4, and provided with a depending arm 36 which is adapted to bear against the plate follower 22 near the bottom thereof. The plate follower 22 is provided with ears 37, which are

arranged to engage the inwardly turned flanges of the side walls 3, 4, thereby limiting the outward movement of the plate follower.

In the form shown in Figs. 5 to 8 inclusive, the receptacle has a floor 38 which is pivoted at 39, 40, in the side walls and provided with a weight 41. Supports 42, 43, are secured to this bottom for the plate follower. Thus it will be seen that the pressure upon the plate follower and sheets will be constant as the number of sheets is reduced. To prevent the sheets from falling forward when the door is opened, I provide an arm 44 pivoted at 45 and adapted to swing into and out of position. The inclined guide plates 46, 47, are so formed and located as to present a flared delivery opening 48 in the door and also support the rollers 49, 50. In this form, the interfolded sheets lie on their side or folded edges.

By forming the delivery slot in the door of the receptacle, it will be seen that I am enabled to very readily insert a new group of sheets when so desired for the reason that the plates with the pressure applied from the back may be returned to the limit of their backward movement until the group of sheets has been placed within the receptacle, the front door closed and locked and the free edge of the front sheet drawn through the delivery slot.

It will be understood that various changes may be resorted to in the form, construction and arrangement of the several parts without departing from the spirit and scope of my invention; and hence I do not intend to be limited to the specific details herein described except as they may be set forth in the claims.

What I claim is:—

1. A sheet delivery receptacle having a delivery slot through its front, a support pivoted in the receptacle, a weight hinged to said support, a follower carried by the support, and means engaging the follower for pressing the sheets toward the slot.

2. A sheet delivery receptacle having a delivery slot through its front, a support pivoted in the receptacle, a weight hinged to said support, a follower carried by the support, and a lever engaging the follower for pressing the sheets toward the slot.

3. A sheet delivery receptacle having a delivery slot through its front, a support pivoted in the receptacle, a weight hinged to said support, a follower carried by the support, and a lever having a depending arm engaging the follower for pressing the sheets toward the slot.

4. A sheet delivery receptacle having a delivery slot through its front, a support pivoted in the receptacle, a weight hinged to said support, a follower carried by the support, and a weighted lever having a depending arm engaging the follower for pressing the sheets toward the slot.

5. A sheet delivery receptacle having a delivery slot through its front, a follower, a support for the follower pivoted in the receptacle, a weight hinged to the support in position to be relieved of its effect on the follower when the number of sheets is diminished to a predetermined amount and means engaging the follower for pressing the sheets toward the slot.

6. A sheet delivery receptacle having a delivery slot through its front, a follower, a support for the follower pivoted in the receptacle, a weight hinged to the support in position to be relieved of its effect on the follower when the number of sheets is diminished to a predetermined amount and means engaging the follower for constantly pressing the sheets toward the slot.

In testimony, that I claim the foregoing as my invention, I have signed my name this 3rd day of June 1916.

MOSES M. MARCUSE.