C. FOHMAN.

DELIVERY FACILITATING DEVICE FOR BUILDINGS.

APPLICATION FILED DEC. 22, 1913.

1,111,016. Patented Sept. 22, 1914.

Fig. 1.

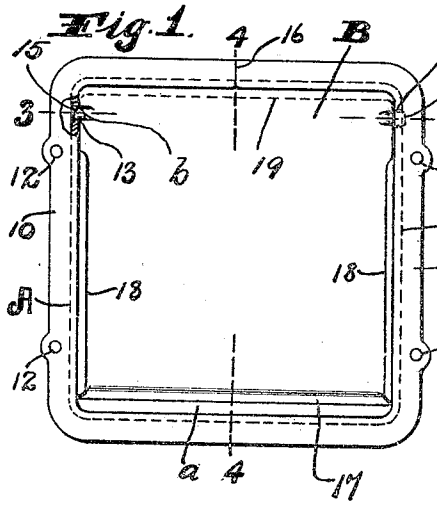


Fig. 2.

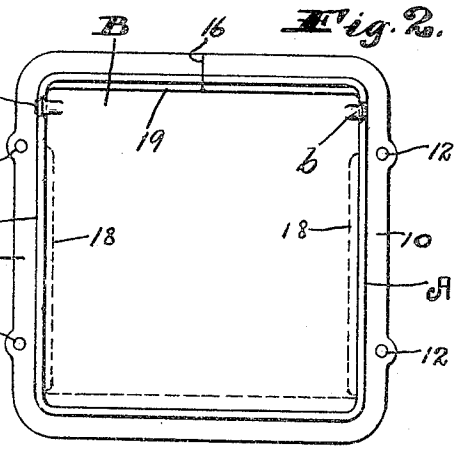


Fig. 3.

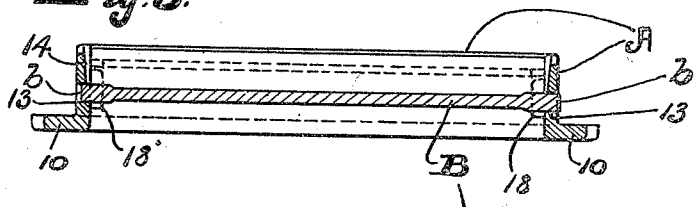


Fig. 4.

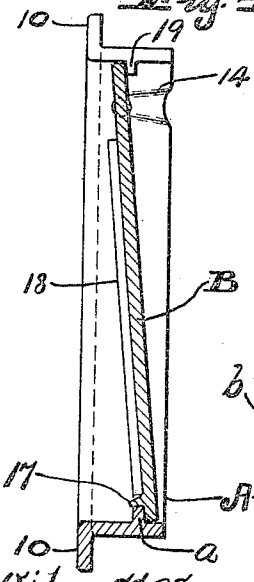
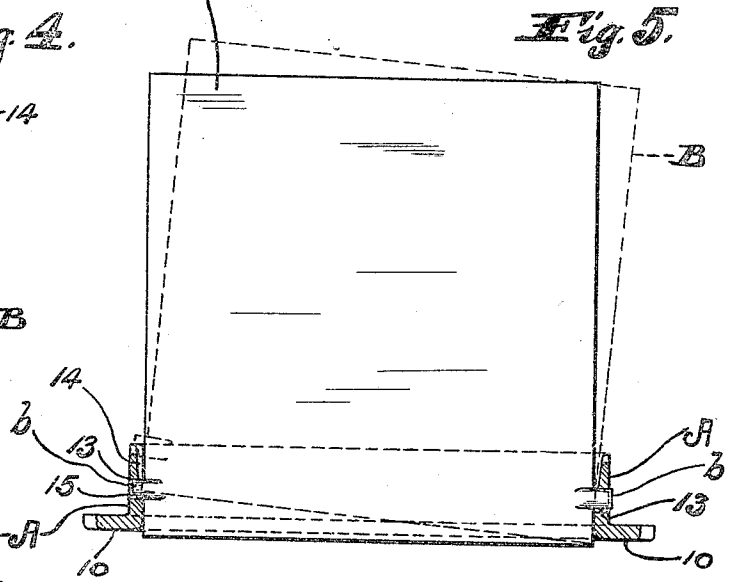


Fig. 5.



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UNITED STATES PATENT OFFICE.

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DELIVERY-FACILITATING DEVICE FOR BUILDINGS.

1,111,016. Specification of Letters Patent. Patented Sept. 22, 1914.

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To all whom it may concern:

Be it known that I, CHARLES FOHMAN, a citizen of the United States of America, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Delivery-Facilitating Devices for Buildings; and I hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

This invention relates to improvements in delivery-facilitating devices for buildings, and more especially to a delivery-facilitating device which comprises a substantially vertically arranged and substantially quadrangular door-case adapted to be inserted into an opening in an outer wall or portion of a building and provided with a door which is pivotally connected to said door-case in suitable proximity to the top of the door-case and arranged to swing in a vertical plane and endwise of the door-case and inwardly in opening and abuts in the closed position of the door against the inner side of a flange formed on the bottom portion of the door-case.

One object of this invention is to provide a delivery-facilitating device of the character indicated which is exceedingly simple and durable in construction.

Another object is to adequately obstruct the passage of rain, snow and dirt and dust to the bottom edge of the door from the outer end of the door-case.

With these objects in view, and to the end of attaining any other advantage hereinafter appearing, this invention consists in certain features of construction, and combinations and relative arrangement of parts, hereinafter described, pointed out in the claims, and illustrated in the accompanying drawings.

In said drawings, Figure 1 is an outer end view, partly in section, of a delivery-facilitating device embodying my invention. Fig. 2 is an inner end view of said device. Fig. 3 is a horizontal section on line 3—3, Fig. 1, looking downwardly. Fig. 4 is a vertical section on line 4—4, Fig. 1, looking in the direction indicated by the arrow. Fig. 5 is a view corresponding with Fig. 3 so far as the door-case of the delivery-facilitating device is concerned, but the door is shown open in Fig. 5, and in dotted lines Fig. 5 is shown the manner of applying the door to the door-case.

Referring to said drawings, A indicates a substantially vertically arranged and substantially quadrangular metal door-case adapted to be inserted into an opening (not shown) formed in an outer wall or portion of a building. The door-case A is provided at its outer end with a flange 10 running around said end of the door-case and provided with bolt-holes 12 for receiving bolts (not shown) employed in connection with nuts (not shown) for securing said door-case to a building to be provided with my improved delivery-facilitating device.

B indicates a door applied to the door-case A, which door consists preferably of a metal plate and is pivotally connected to the upper portion of the door-case in proximity to the top edge of the door and arranged to swing in a vertical plane and endwise of the door-case and inwardly in opening. It will be observed therefore that the door B is arranged to permit and facilitate the delivery of packages and other articles at said door to the interior of a building which is to be provided with my improved delivery-facilitating device. Preferably the door B is provided near its top edge with two pivotal members *b* projecting from opposite side edges respectively of the door and arranged horizontally and in line endwise, and the door-case is provided in each side portion thereof and in proximity to the top of the door-case with a hole 13 arranged horizontally and in line endwise with the corresponding hole in the opposite side portion of the door-case, and said holes are engaged by the aforesaid pivotal members of the door. The arrangement of the pivotal members *b* is such relative to the ends of the door-case that the axis of the door is arranged between the outer end of the door-case and a point centrally between the outer and inner ends of the door-case. Each side portion of the door-case is provided in its inner side with a recess 14 extending from the hole 13 in said portion to the inner end of the door-case, and said recess is reduced in depth toward said hole. One of the pivotal members of the door (see Figs. 1 and 5) has its outer end-portion provided with a sloping surface 15 facing in the direction of the top edge of the door. The door-case A is split, as at 16, centrally between the ends of its top portion and from the

inner end to the outer end of the door-case to permit the application of the door to the door-case.

In applying the door to the door-case, the door is placed in a horizontal position and somewhat at an angle to the door-case, as shown in dotted lines Fig. 5, with its pivotal member which has the sloping surface 15 only entering the adjacent recess 14 in the door-case after the other pivotal member of the door has already been inserted into the hole 13 provided therefor in the door-case. Obviously the split 16 in the top portion of the door-case permits of the side portions of the door-case to be spread apart at the holes 13 sufficiently to permit actuation of the door from the position shown in dotted lines, Fig. 5, into the position shown in solid lines, Fig. 5, and the door, upon being released after having been inserted into the door-case, as shown in solid lines Fig. 5, swings downwardly by gravity into the door-case.

The door is arranged to abut at its outer side in the closed position of the door against the inner side of a flange *a* which is formed on the bottom portion of the door-case at the upper side of said bottom portion, which flange extends between the lower ends of the side portions of the door-case. By the construction hereinbefore described it will be observed that the split 16, the recesses 14, the reduction in depth of said recesses toward the holes 13, and the sloping surface 15 on one of the pivotal members of the door facilitate the assemblage of the parts. The flange *a* is arranged to cover the outer side of the door along the bottom edge of the door in the closed position of the door, and said flange is preferably arranged between the inner end of the door-case and a point centrally between the inner and outer ends of the door-case. Preferably each side portion of the door-case is provided with a flange 18 arranged at the outer side of the door and extending from the adjacent end of the flange *a* upwardly and somewhat outwardly into proximity to the axis of the door. The flanges *a* and 18 participate in obstructing the passage of dust and dirt to the bottom edge and side edges of the door from the outer end of the door-case, but to adequately obstruct the passage of rain and snow to the bottom edge of the door from said end of the door-case the door is provided at its outer side with an outwardly projecting flange 17 which extends transversely of the door and is arranged over and in close proximity to the flange *a* of the door-case in the closed position of the door. The door-flange 17 preferably projects somewhat beyond the outer side of the flange *a* of the door-case in the closed position of the door, as shown in Fig. 4, and the top surface of the door-flange preferably slopes and faces outwardly. The flange *a* of the door-case and the door-flange 17 have their opposing surfaces concentric relative to the axis of the door to permit of the arrangement of the door-flange 17 in the closest proximity to the flange *a* of the door-case in the closed position of the door, and preferably the door-case is also provided at the under side of its top portion with a downwardly projecting flange 19 which is arranged centrally between the outer and inner ends of the door-case. The flange 19 extends between the upper ends of the side portions of the door-case and is overlapped at its outer side by the upper end of the door in the closed position of the door. It will be observed that by the hereinbefore described relative arrangement of the parts the door is not liable to open accidentally.

What I claim is:—

1. In a delivery-facilitating device of the character indicated, an upright door-case, and a door for said door-case, the door-case being split at its top portion from the inner end to the outer end of the door-case and being provided in each side portion thereof and in proximity to the top of the door-case with a hole arranged horizontally and in line endwise with the corresponding hole in the other side portion of the door-case, and the door being provided with pivotal members engaging said holes, the outer end-portion of one of said pivotal members being provided with a sloping surface which faces in the direction of the top edge of the door.

2. In a delivery-facilitating device, an upright door-case, and a door for said door-case, the door-case being split at its top portion from the inner end to the outer end of the door-case and being provided in each side portion thereof and in proximity to the top of the door-case with a hole arranged horizontally and in line endwise with the corresponding hole in the other side portion of the door-case, the door being provided with pivotal members engaging said holes, and each side portion of the door-case being provided in its inner side with a recess which extends from the aforesaid hole in said side portion to the inner end of the door-case and is reduced in depth toward said hole.

3. In a delivery-facilitating device, an upright door-case, and a door for said door-case, the door-case being split at its top portion from the inner end to the outer end of the door-case and being provided in each side portion thereof and in proximity to the top of the door-case with a hole arranged horizontally and in line endwise with the corresponding hole in the other side portion of the door-case, the door being provided with pivotal members engaging

said holes, the outer end-portion of one of said pivotal members having a sloping surface which faces in the direction of the top edge of the door, and each side portion of the door-case being provided in its inner side with a recess which extends from the aforesaid hole in said side portion to the inner end of the door-case and is reduced in depth toward said hole.

4. In a delivery-facilitating device, a substantially vertically arranged and substantially quadrangular door-case, and a door for said door-case, which door is pivotally connected to the upper portion of the door-case and arranged to swing in a vertical plane and endwise of the door-case and inwardly in opening, the door-case being provided at the upper side of its bottom portion with an upwardly projecting flange which extends between the side portions of the door-case and is arranged between the inner extremity of the door-case and a point centrally between the inner and outer ends of the door-case, the door being arranged to abut at its outer side against the inner side of said flange, and each side portion of the door-case being provided with a flange arranged at the outer side of the door and extending upwardly from the adjacent end of the first-mentioned flange into proximity to the axis of the door.

In testimony whereof, I sign the foregoing specification, in the presence of two witnesses.

CHARLES FOHMAN.

Witnesses:
B. C. BROWN,
VICTOR C. LYNCH.

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