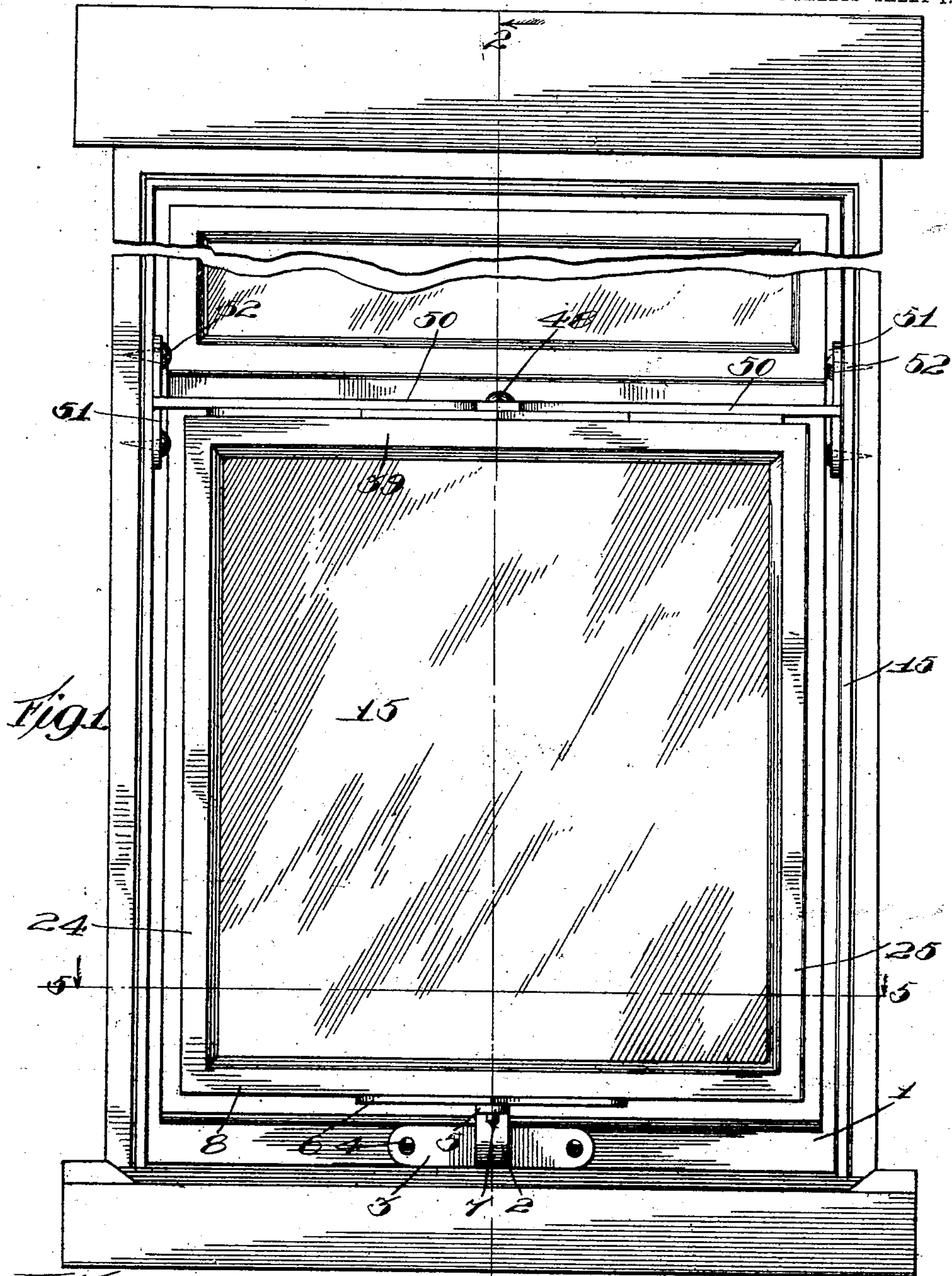


912,617.

L. G. QUACKENBOSS.
BAY WINDOW.
APPLICATION FILED DEC. 22, 1904.

Patented Feb. 16, 1909.

3 SHEETS—SHEET 1.



Witnesses:
J. V. Downard,
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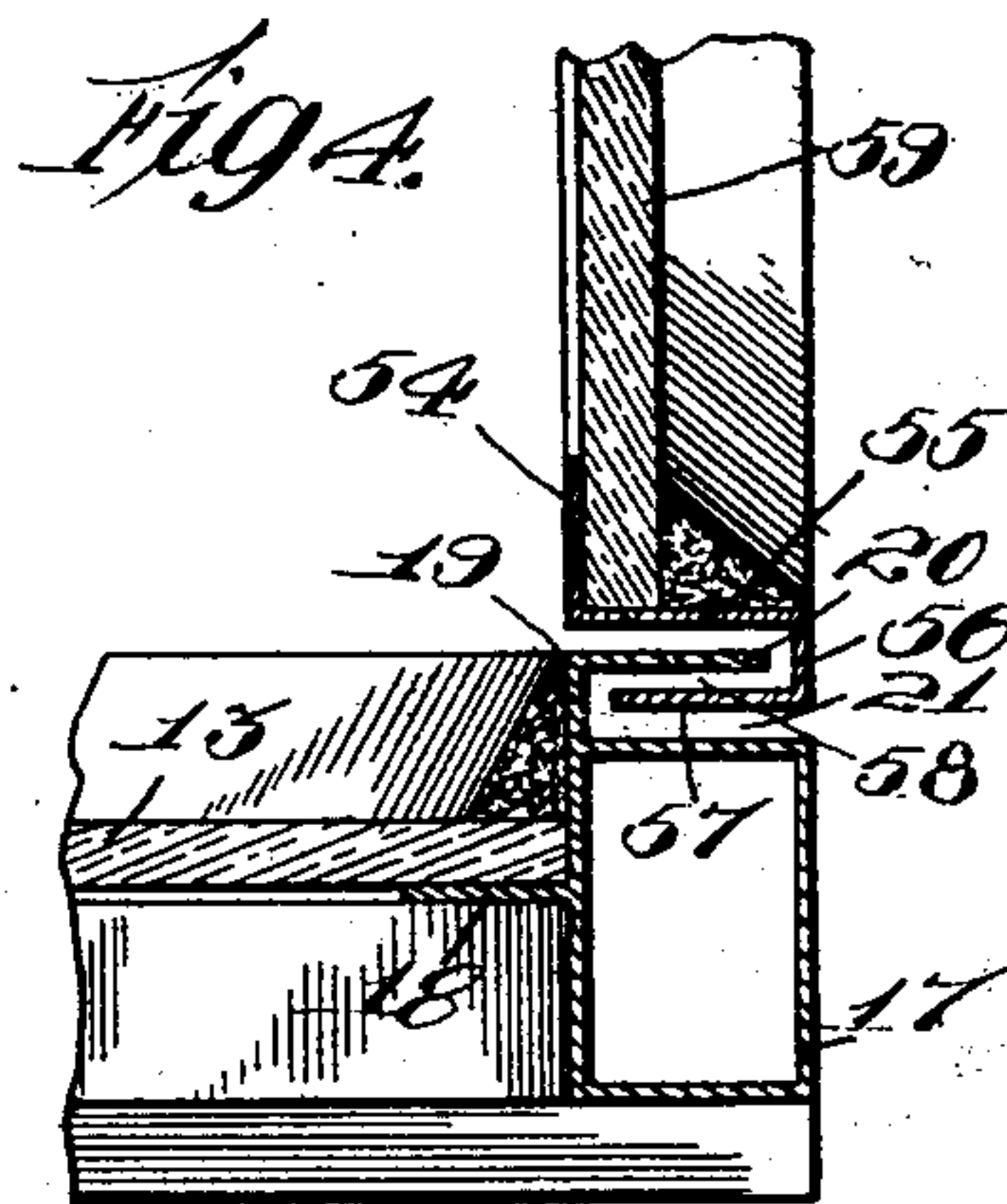
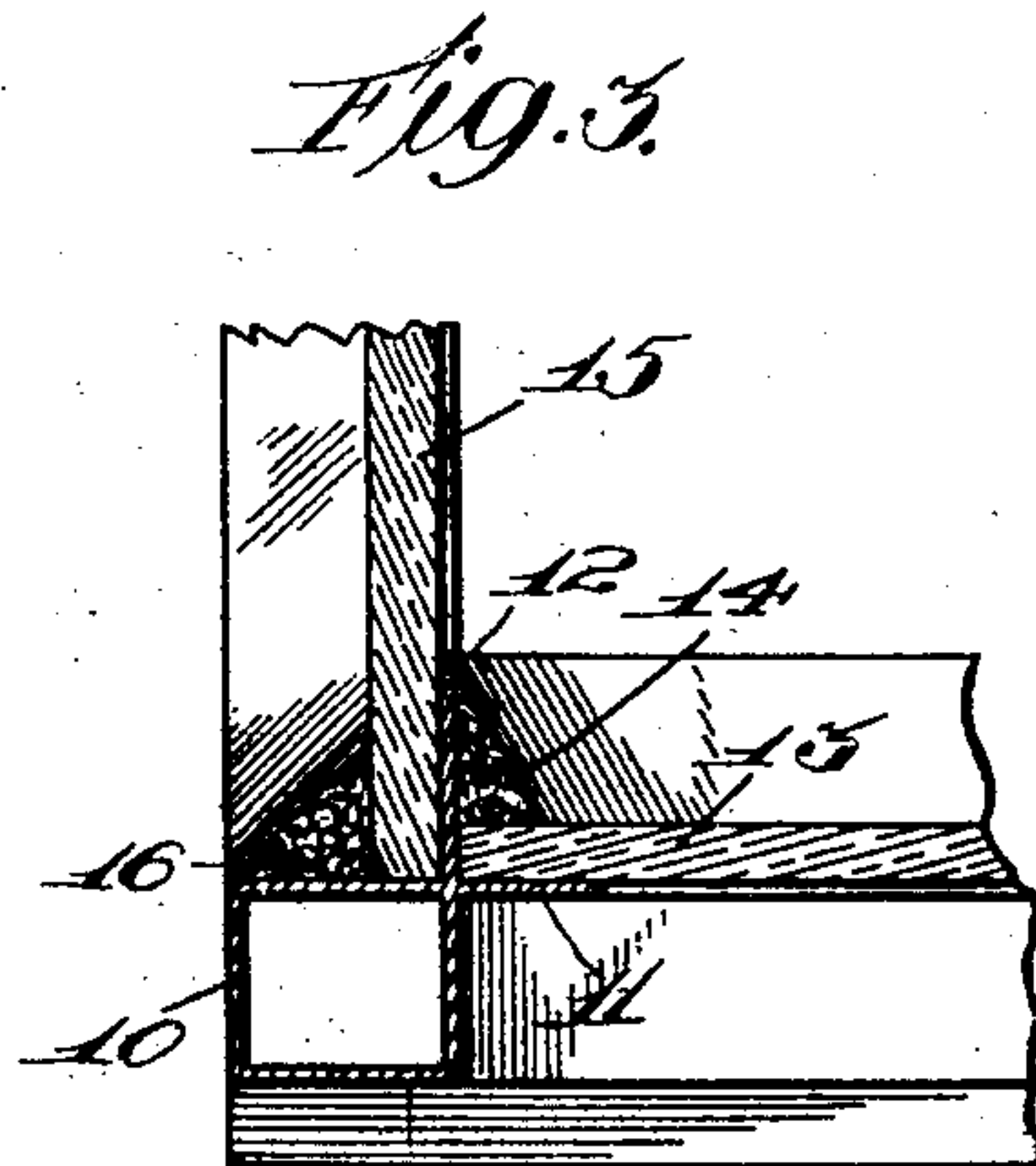
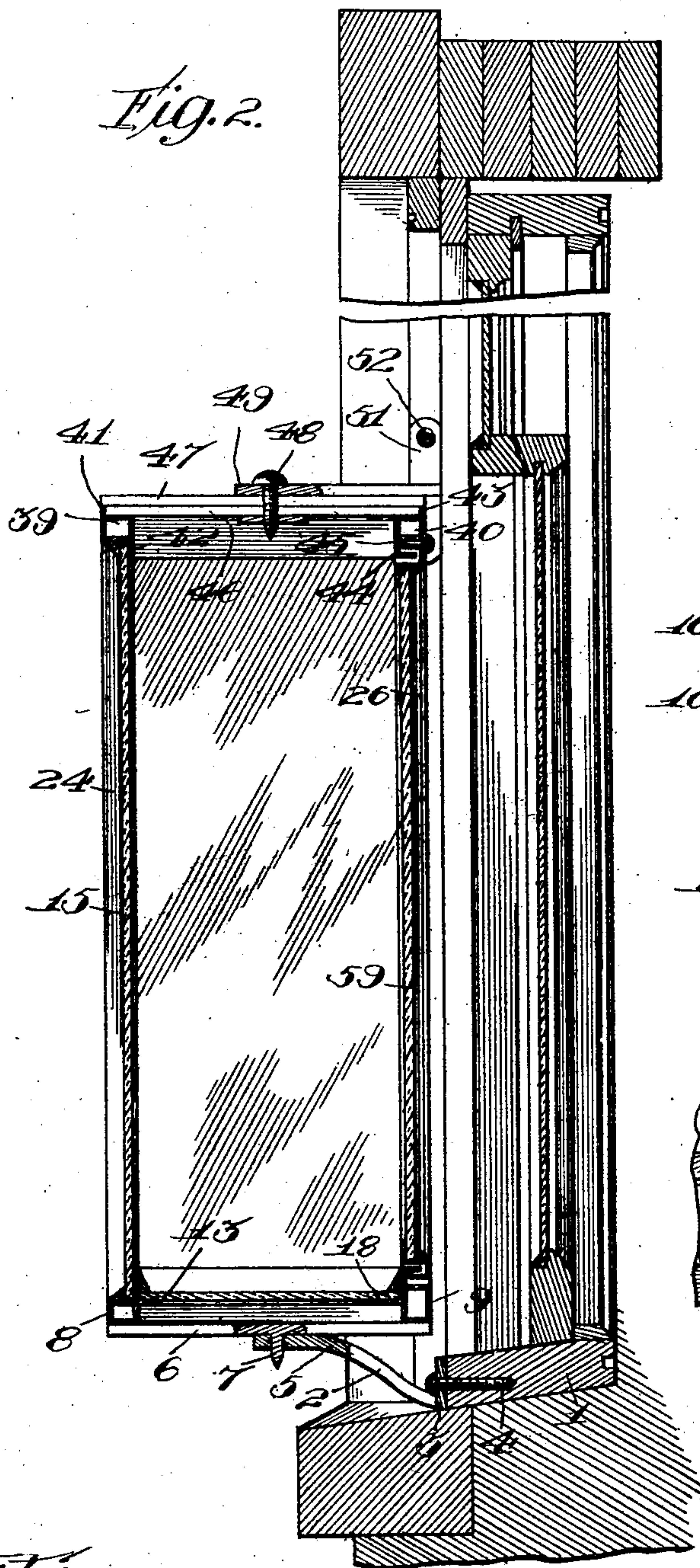
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3 SHEETS—SHEET 2.



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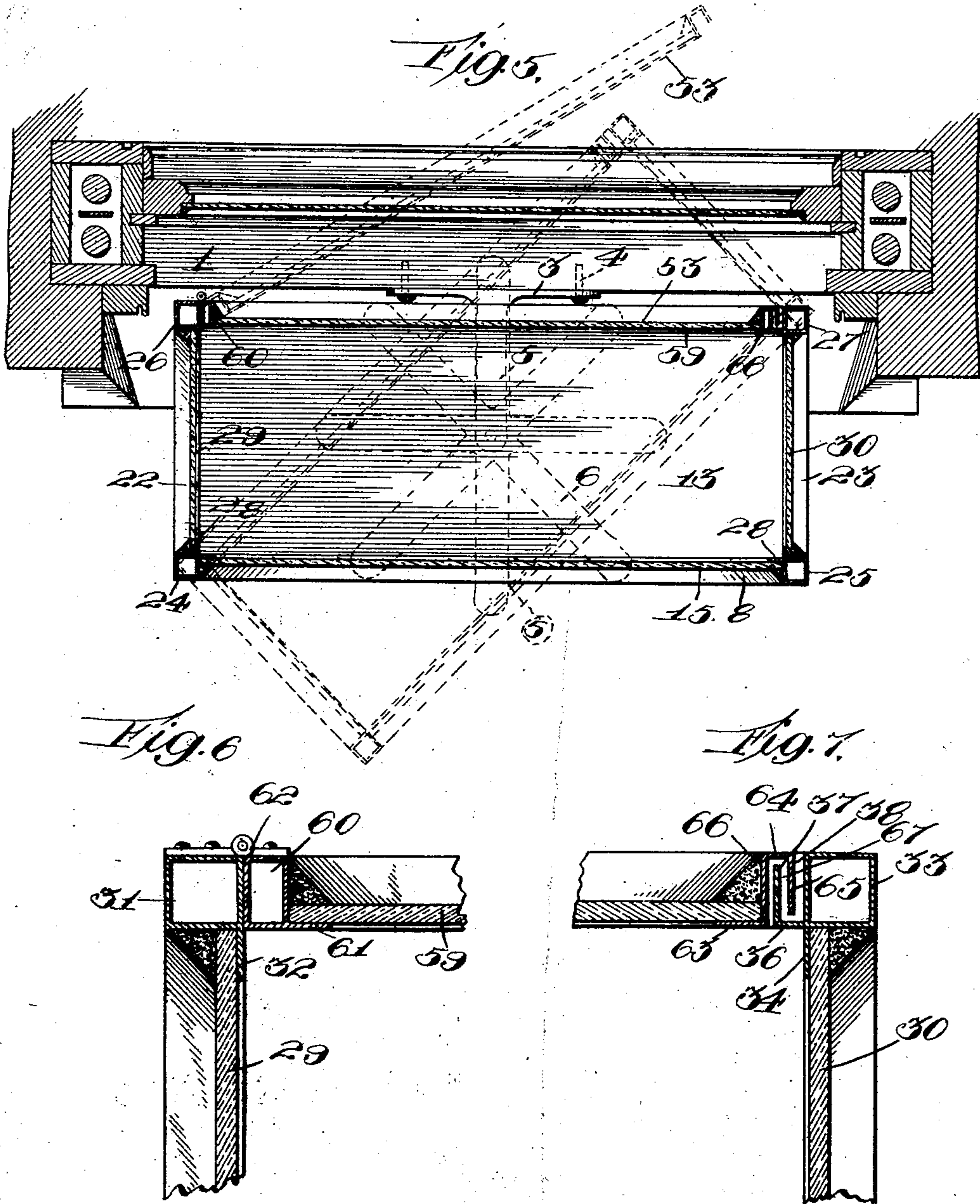
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3 SHEETS—SHEET 3.

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UNITED STATES PATENT OFFICE.

LEONARD G. QUACKENBOSS, OF CHICAGO, ILLINOIS.

BAY-WINDOW.

No. 912,617.

Specification of Letters Patent.

Patented Feb. 16, 1909.

Application filed December 22, 1904. Serial No. 238,032.

To all whom it may concern:

Be it known that I, LEONARD G. QUACKENBOSS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Bay-windows, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawing, forming a part of this specification.

My invention relates to a detachable structure adapted to be attached to the frame of ordinary windows or to such other openings in a structure as may be desired, my object being to provide a device of this character which may be used as a show-window for the display of merchandise, etc., or as a structure in which potted plants or other flowers may be arranged.

A further object of my invention is to provide a structure to which ready access may be had and which may also be swung into different positions for the purpose of cleaning the same. This structure may be constructed in any desired shape, as square, octagonal or semi-circular. I preferably show in the accompanying drawings my device as being rectangular in construction, having the sides and top thereof formed of glass, although it will be understood that any other suitable panels may be used in the place of glass panels.

In the accompanying drawings, showing one embodiment of my invention, Figure 1 is a front elevation of my device; Fig. 2 is a longitudinal sectional view of my device taken on the line 2—2 of Fig. 1; Fig. 3 is a detailed sectional view showing one of the lower corners of my device; Fig. 4 is a detailed sectional view showing the lower connection between the swinging door and the bottom rail of my device; Fig. 5 is a transverse sectional view, taken on the line 5—5 of Fig. 1; Fig. 6 is a detailed section showing the hinged connection between the door and the body of the structure; and, Fig. 7 is a detailed sectional view showing the weather-proof connection between the swinging door and the side rail of the body portion of my device.

In constructing my device, at the lower portion of the window is preferably mounted an outwardly extending bracket 2. This bracket may be of any desired construction, but is shown in the accompanying drawings

as having the transversely arranged arms 3, which are suitably secured by means of screws 4, at the lower portion of the window, and an outwardly extending arm 5. A bracket or support 6 is pivotally mounted upon said outwardly projecting arm 5 through the medium of a pin 7, which extends through an opening in the outer end of the arm 5. The support 6, as here shown, has extending arms and serves to support the bottom portion of my structure. The bottom, as here shown, comprises a frame formed of bottom parallel ribs 8 and 9, which are preferably of the construction shown in detail in Figs. 3 and 4. It will be noted that the front rail 8 comprises a hollow square body 10, having projecting therefrom the horizontally extending flange 11 and the vertically extending flange 12, these flanges being formed integrally with the body portion 10, and the whole portion being preferably constructed of sheet metal bent in the desired form. By this arrangement the horizontal flange 11 forms a support upon which a bottom glass or other panel 13 may be secured and held in position by putty or other securing means 14. The top of the body portion 10 forms a support for the vertically arranged front glass or panel 15, which rests against the upwardly extending flange 12, and is held in position by putty or other securing means 16. The opposite parallel bottom rail 9 is of the structure shown more clearly in detail in Fig. 4. This rail 9 comprises a hollow rectangular body portion 17, having projecting inwardly therefrom a flange 18, upon which is adapted to rest the opposite end of the bottom panel 13. Extending from said body portion 17 is an upwardly extending portion 19 and outwardly extended portion 20, which, in connection with the top of the body 17, forms a channel 21, for the purpose hereinafter set forth. End rails 22 and 23 of the same construction as the side rail 8, are secured between said side rails and form a frame-like bottom, between which is adapted to be secured the glass or other panel 13. Extending upwardly from each corner of the bottom are vertical ribs 24, 25, 26, and 27. The two outer end vertical ribs 24 and 25 are of the same general construction as the bottom rails, except, of course, their flanges 28 are vertically arranged. These flanges, of course, form supports, against which the front panel or glass 15 is adapted to rest and

against which the side glass or panels 29 and 30 are adapted to rest, said panels being suitably secured in position by means of putty or any other fastening device. The upright 26 is preferably constructed in the manner shown in Fig. 6, and comprises a hollow squared post 31, having the inwardly projecting flange 32, formed thereon, and against which is adapted to rest the inner edge of the glass panel 29, said panel being secured against this flange by putty or other fastening device. The post 27 is formed preferably as shown in Fig. 7 and comprises the hollow squared portion 33, having the projecting flange 34, against which rests the inner edge of the panel 30. Extending at right angles from the flange 34 is a projection 36, having formed thereon an outwardly extending portion 37, which, with one side of the hollow squared portion 33, forms a channel 38 for a purpose which will appear more fully hereinafter.

The top portion of the body comprises parallel side ribs 39 and 40. The rib 39 preferably consists of a hollow squared rib having an upwardly projecting outside flange 41 and a downwardly projecting inside flange 42. The flange 42 forms a rest, against which the vertical front plate 15 is adapted to rest and be secured thereagainst, by putty or other means. The parallel rail 40 comprises a hollow squared portion having an upwardly projecting outside flange 43 and a downwardly and outwardly projecting portion 44, which portion with the lower side of the rib forms a channel 45. A top panel 46, which may be of glass, or other desired material, is adapted to rest on the upper sides of the parallel ribs 39 and 40 and be held in position between the upwardly extending flanges 41 and 43. End ribs of the same construction as the rib 39, are secured between the parallel ribs and serve as end supports for the panels. As here shown, a cross bar 47 is secured to the parallel ribs, above the glass panel, and has projecting there-through a pivot screw 48, said screw being fastened to a bracket 49, which projects from a transversely arranged arm 50, here shown as secured between the two side rails of the window frame by means of lugs 51 and screws 52.

Secured to the body portion is a door 53. As here shown, this door is constructed of a frame and a single panel of glass mounted within said frame, the whole being hinged to one side of the body section. The bottom rail of the frame is substantially of the structure shown in Fig. 4 and comprises a single piece of metal bent with the upwardly extending flange 54, a support 55 formed at right angles to said flange and a downwardly extending portion 56 and inwardly extending portion 57. A channel 58 is formed between the support 55 and the portion 57, and

by this construction a weather-proof joint is formed between the bottom rail 9 of the body and the bottom of the door, the inwardly projecting portion 57 being adapted to fit in the channel 21 and the outwardly projecting portion 20 being adapted to fit in the channel 58 on the bottom rail of the door. The support 55 has resting thereon the lower end of the panel 59, which is secured in position against the upwardly projecting flange 54 by putty or other fastening means. The top rib of the door is formed substantially as is the bottom rib, as shown in Fig. 4. Vertical upright side-pieces extend between the top and bottom rails and are formed substantially as shown in Figs. 6 and 7.

In Fig. 6 the vertical rail 60 comprises a hollow upright post having a flange 61 formed thereon, which forms a rest against which the side of panel 59 is adapted to be secured. As here shown, suitable hinges 62 are secured to this post and serve to hinge the same to the post 26 of the body portion. The opposite vertical rib is provided with the flange 63 against which the opposite edge of the panel 59 is adapted to rest and be secured by putty or other means, and also has an outwardly projecting portion 64 and inwardly projecting portion 65, which, with the rib 66, forms a channel 67. In this manner a perfectly weather-proof joint may be made between the side support of the body portion and the side of the door, the inwardly projecting portion 65 being adapted to fit in the channel 38 and the outwardly projecting portion 37 being adapted to fit in the channel 67.

By the arrangement as described, it will be noted that I have provided a structure which may be swung between its two pivots in any direction, as shown in dotted lines, in Fig. 5. The door being adapted to be opened from the inside, permits ready access thereto for the insertion of merchandise to be displayed, or potted plants, etc. Furthermore, by constructing the device in order that it may be swung clear around the outside of the panels, it may be readily cleaned by a person within the room.

Any desired means may be used for preventing the structure from being turned by the wind, as hooks, which engage the window frame.

While I have described one manner of constructing my device, I do not wish to be limited to the particular construction here shown and described, as it is evident my invention admits of various modifications, without departing from the spirit thereof.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. In a case, the combination with suitable supports, secured in front of an opening, of a structure pivoted between said supports and

comprising a frame, suitable panels supported within said frame, and a door or doors pivoted to said frame, said door having parts adapted to interlock with said frame, 5 whereby a weather-proof connection may be made between said door and said frame.

2. In a case, the combination with suitable supports, of a structure pivotally mounted between said supports and comprising a 10 frame, suitable panels supported within said frame, and a door or doors pivoted to said frame, said door comprising top and bottom ribs and side ribs, and panels supported between said ribs, the top and bottom and said 15 side ribs having parts which interlock with said frame to form a weather-proof joint therebetween.

3. In a device of the character described, the combination with suitable supports secured in front of and protruding beyond an 20 opening, of a structure rotatably mounted between said supports and comprising a frame formed with top and bottom ribs and vertical ribs, flanges on said ribs, and panels 25 supported between said ribs against the flanges on the same, by suitable means.

4. Means for the purpose set forth, com-

prising suitable supports secured in front of an opening and protruding beyond the same, a structure rotatably mounted between said 30 supports and comprising a frame formed of top parallel ribs and bottom parallel ribs provided with flanges, flanged vertical ribs secured between said top and bottom ribs, 35 panels supported between said ribs and secured against the flanges by suitable means, and a door or doors pivoted to said frame.

5. In a case, the combination with suitable supports, of a structure pivotally mounted between said supports, and comprising a 40 frame formed of a plurality of top ribs, a plurality of bottom ribs, vertical ribs secured between said top and bottom ribs and panels suitably supported between said ribs, a door or doors pivoted to said frame and 45 having parts which interlock therewith.

In witness whereof, I have hereunto subscribed my name in the presence of two witnesses.

LEONARD G. QUACKENBOSS.

Witnesses:

M. R. ROCHFORD,
W. PERRY HAHN.