R. C. HIGBY AND E. J. O'NEILL.

AUXILIARY WINDOW OR DOOR.

APPLICATION FILED FEB. 16, 1921.

1,404,025. Patented Jan. 17, 1922.

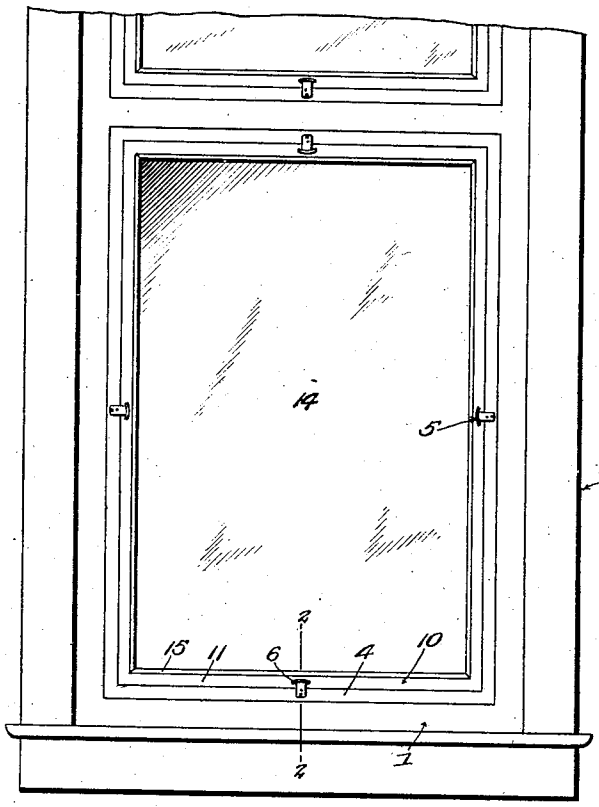


Fig. 1.

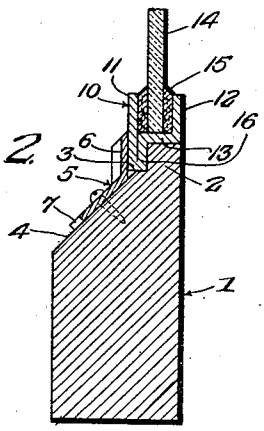
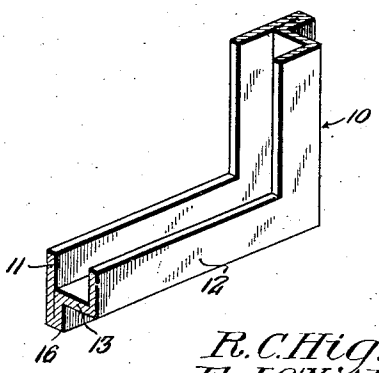


Fig. 2.

Fig. 3.



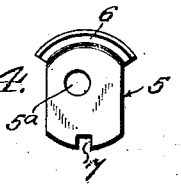


Fig. 4.

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AUXILIARY WINDOW OR DOOR.

1,404,025. Specification of Letters Patent. Patented Jan. 17, 1922.

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To all whom it may concern:

Be it known that we, ROY C. HIGBY and EDWARD J. O'NEILL, citizens of the United States, residing at Utica, in the county of Oneida and State of New York, and Syracuse, in the county of Onondaga and State of New York, respectively, have invented certain new and useful Improvements in an Auxiliary Window or Door, of which the following is a specification.

This invention relates to a supplemental window or door frame to interchangeably receive storm sash and wire screens.

The object of the invention is to provide a single window or door frame, the panes or panels of which are interchangeable whereby it may be used equally well in connection with a storm glass or a screen wire panel so that said frame after once being installed may remain from season to season, glass storm panels being inserted therein in the winter and wire screens substituted in the summer, one being quickly removed and the other inserted from inside the building.

Another object is to so construct such a frame as to provide a weathertight joint between it and the frame of the glass or screen panel used in connection therewith.

With these and other objects in view, the invention consists in certain novel features of construction as hereinafter shown and described and specifically pointed out in the claims.

In the accompanying drawing:

Figure 1 is a front elevation of a window showing this invention applied.

Fig. 2 is an enlarged detail section taken on the line 2—2 of Fig. 1.

Fig. 3 is a detail perspective view of a portion of the frame in which the panel is mounted, and,

Fig. 4 is a detail front elevation of one of the devices for securing the panel to the frame.

In the embodiment illustrated a window frame F of ordinary construction is shown having mounted therein an auxiliary frame 1 which may be mounted in the frame F in any suitable or desirable manner. This frame 1 is provided on its inner edge at its rear face with a flange 2 extending around the entire frame with its outer face flush with the outer or rear face of said frame. A seat or shoulder 3 at the base of the front face of said flange merges at its outer edge into a downwardly and outwardly inclined supporting breast 4 on which is mounted the securing elements 5 as will be hereinafter more fully described.

Panels 14 are designed to be detachably mounted in the frame 1 and may be composed of glass as herein shown or of screen wire or any desired material, said panels being provided around the edges thereof with binding protective frames 10.

The frame 10 as shown is substantially U-shaped in cross section and comprises laterally spaced side members 11 and 12 connected at their lower edges by a cross-bar 13 to form a seat for the panel 14 which as shown in Fig. 2 is mounted centrally therein and held by a suitable filler 15 arranged on opposite sides of the panel between it and the flanges or side members 11 and 12. This filler 15 is preferably composed of putty and fibre although not necessarily so. This filler 15 operates to hold the panel 14 in position and also to cushion it against jars.

Arranged around the outer edge of the frame 10 is a flange 16, the outer face of which is preferably made flush with the outer face of the side member 11 and said flange is designed when the parts are assembled to rest on the shoulder 3 formed at the base of the flange 2 of frame 1 as is shown clearly in Fig. 2. The lower face of the connecting element or bottom 13 of the frame 10 rests on the upper edge of flange 2 of frame 1 and is of a width corresponding to the width of said flange so that when the two frames are connected the outer face of the flange 12 will be flush with the outer face of the frame 1.

The fastening elements 5 which are designed to hold the panel 14 in position in frame 1 are mounted on the breast 4 of said frame at any desired point, four being here shown mounted at the opposite sides and the top and bottom of said frame. One of these fasteners is shown in detail in Fig. 4 and comprises a plate apertured as shown at 5^a to receive a screw for fastening it to the frame and one end thereof is provided with an obliquely disposed arcuate flange 6 designed to overlap and engage the outer face of flange 16 of frame 10 when the parts are assembled as is shown clearly in Fig. 2. The opposed end of this plate has a finger notch

17 for manipulating the fastener which is designed to pivot on its screw for releasing or fastening the panel.

From the above description it will be obvious that the glass panel 14 shown may be removed from frame 1 by disengaging the fasteners 5 and another panel substituted which may be composed of screen wire or any other material provided it be equipped with a binding frame 10 shown clearly in Fig. 3 which will cooperate with frame 1 when the parts are assembled so that after the frame 1 is once mounted in the window frame it may remain indefinitely and change in the panels may be quickly effected from inside the building. This detachable mounting of the panels 14 also provides for the easy cleaning of said panels as well as for their repair when injured.

The peculiar construction of the frames 1 and 10 as above described provides for their interlocking engagement to form a weathertight joint so that when a storm panel is used no air can enter between them and this joint will also effectively prevent the entrance of moisture.

The preferred embodiment of the invention is disclosed in the drawings and set forth in the specification, but it will be understood that any modifications within the scope of the claimed invention may be made in the construction without departing from the principle of the invention or sacrificing any of its advantages.

What is claimed is:

1. A closure of the class described comprising a main frame having a removable panel carrying frame mounted therein, said main frame having a flange around its inner edge at its outer face, a seat at the base of said flange terminating in a downwardly inclined breast, said panel frame having a flange engaging said seat, the outer edge of said panel frame proper engaging the edge of the main frame flange, said flanges co-acting to form a weather tight joint, and pivoted fasteners for securing said frames together.

2. The combination of a main frame and a panel frame detachably connected, the latter being substantially U-shaped in cross section with a flange on the outer edge of its cross bar in alinement with one of its side members, the main frame having a flange with a shoulder at its base to fit the outer edge of said panel frame, and means to hold said frames detachably engaged.

In testimony whereof, we affix our signatures hereto.

ROY C. HIGBY.
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