

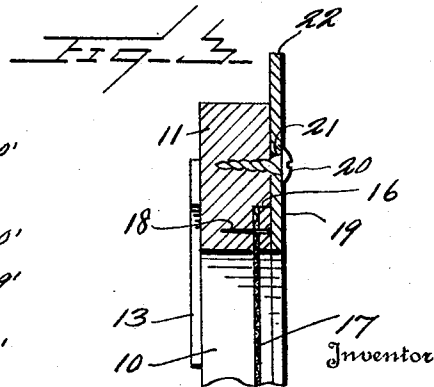
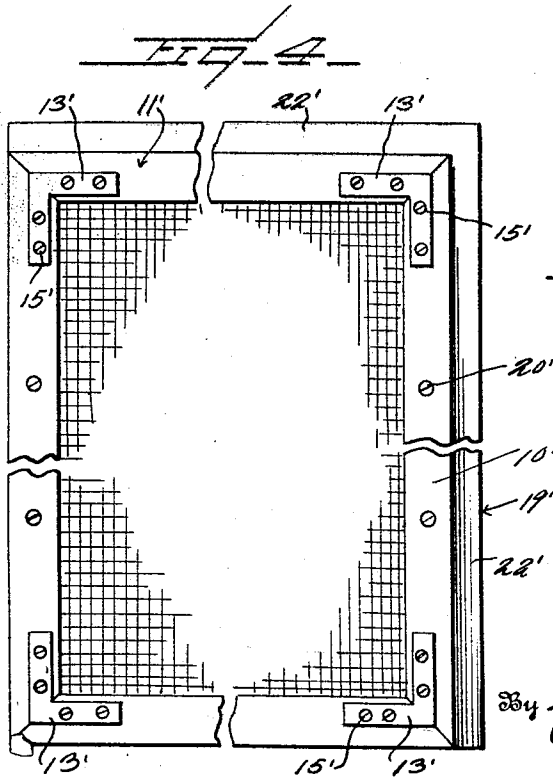
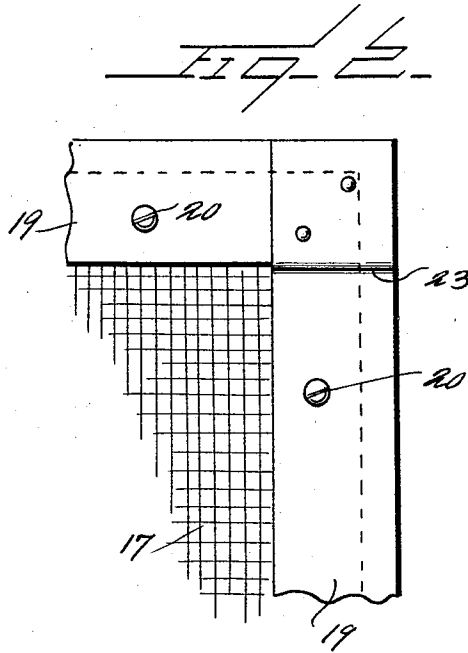
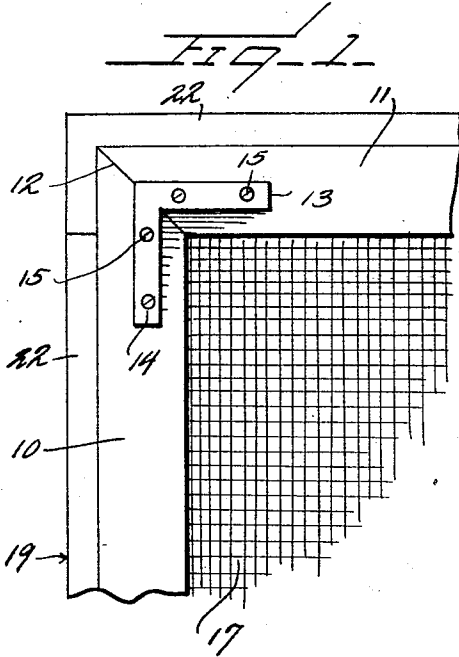
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METAL DOOR AND WINDOW SUPPORT

Filed April 10, 1930



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METAL DOOR AND WINDOW SUPPORT

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This invention relates to shielding and supporting means for door and window frames and more particularly to screen door and window frames.

5 An object of this invention is to provide a protecting and supporting shield for a frame so as to eliminate the necessity of mortising the members of the frame and thereby simplify the construction of the frames.

10 Another object of this invention is to provide in combination with a protecting shield for protecting the frame against weather or the like, a supporting member in the form of an angle iron which is adapted to be positioned on the corner or meeting point of the members of the frame so as to hold the members in firm contact one with another.

15 A further object of this invention is to provide a shield for a window frame which is adapted to shield the wooden structure of the frame from weather or the like, the shield being so constructed as to project outwardly from the frame so as to close any gaps which may exist between the facing of the window frame due to warping, sagging or the like.

20 The above and various other objects and advantages of this invention will in part be described in and in part be understood from the following detailed description of the present preferred embodiment, the same being illustrated in the accompanying drawings wherein:—

25 Figure 1 is a detail fragmentary rear elevation of a device constructed according to the preferred embodiment of this invention;

Figure 2 is a fragmentary front elevation of the device;

Figure 3 is a sectional view taken through one of the frame sections; and

40 Figure 4 is a fragmentary detail rear elevation of a door.

Referring to the drawing wherein like numerals of reference designate corresponding parts throughout the several views, the numeral 10 designates one of the side members of a frame structure for a window screen or a screen door, and 11 designates another section of the frame which is adapted to be joined to the section 10 at the point 12, the jointure of the frame members 11 and 10 be-

ing preferably cut on an angle as, for instance, on an angle of approximately 45° or if desired, the end of the frame member 10 may be adapted to abut against the inner edge of the frame member 11.

55 A corner bracing member 13 which is substantially L-shaped and constructed in the form of a flat bar or the like having suitable apertures 14 therethrough is adapted to be secured to the inner face of the frame members 10 and 11 by means of bolts or screws 15 or the like, the bracing or supporting member 13 being adapted to hold the frame members 10 and 11 in desired position. Through the use of the angle member 13 it will be obvious that in order to secure the frame members 10 and 11 together it will not be necessary to provide a mortise and tenon joint for the two members thereby reducing the manufacturing cost of the frame and at the same time providing a substantially rigid frame structure.

60 The opposite or outer face of the frame members 10 and 11 are provided with a recess or rabbit 16 in which the edges of a wire screen 17 or the like are adapted to be seated, the screen being held within the rabbited portion 16 by means of tacks or nails 18 or the like.

65 A protecting shield 19 which is constructed in the form of an elongated strip of sheet metal is positioned upon the outer face of the frame members 10 and 11 and is secured thereto by means of screws or bolts 20 or the like. The bolts or securing members 20 extend through suitable apertures 21 which are spacedly positioned in the plate or reinforcing member 19. The width of the shield 19 is substantially in excess of the width of the frame members 10 and 11 so as to provide an outwardly extending flange portion 22 which is adapted to engage against the outer face of the window structure so as to cover up any crevices or openings between the screen frame and the window structure.

70 Where the shield members 19 intersect or overlap at the corners of the frame, one of the shield members 19 is offset as at 23 so as to overlap the abutting shield and so as to permit the securing members 20 to securely

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hold the abutting corners or ends of the shield members on the frame structure.

Where the frame members 10' and 11' comprise the frame structure of a door or the like as disclosed in Figure 4, the angle bars 13' may be secured to the inner face of the frame members by means of a bolt 15' and the shield members 19' may be secured to the outer face of the frame members 10' and 11' by means of bolts or screws 20'.

In the case of a door frame, the outwardly extending flanged portion 22' is omitted on the inner or hinged edge of the door and upon the lower bottom portion of the door, the flanged portion 22' extending outwardly from only the free or open edge of the door and the top of the door so that the door may freely swing upon the hinges or the like, and so that the flange will not interfere with the swinging movement of the door where it swings relatively close to the floor or the like.

It is, of course, understood that where screen doors or the like are positioned in door frames, it frequently occurs that relatively large openings occur between the outer edge of the door and the door frame and in order to close these gaps or openings the shield 22' will engage against the door sash and effectively close the openings.

It will be obvious from the foregoing that an effective protecting shield structure has been disclosed wherein the outer face of the wooden frame is thoroughly protected from the weather and at the same time the shield structure prevents bending of the frame and eliminates the more or less complicated joints which are at present in use.

It will, of course, be understood that various changes and modifications may be made in the details of construction and design of the above specifically described embodiment of this invention without departing from the spirit thereof, such changes and modifications being restricted only by the scope of the following claim:

What is claimed is:—

In combination with a screen frame, an L-shaped bracing member, means for securing said bracing member on one face of the frame and across the corner thereof, a protecting supporting shield positioned on the opposite face of the frame and overlying the screen, said supporting shield comprising an elongated metallic strip covering the face of the frame and reinforcing the frame whereby to prevent bending or warping thereof, the outer edge of said supporting strip extending outwardly of the frame whereby to provide an outwardly extending flange for engagement with the outer face of a sash structure.

In testimony whereof I hereunto affix my signature.

CLIFORD W. GRIFFIN.