

Aug. 26, 1930.

F. F. HASKELL

1,773,731

WINDOW SCREEN

Filed July 22, 1929

Fig. 1.

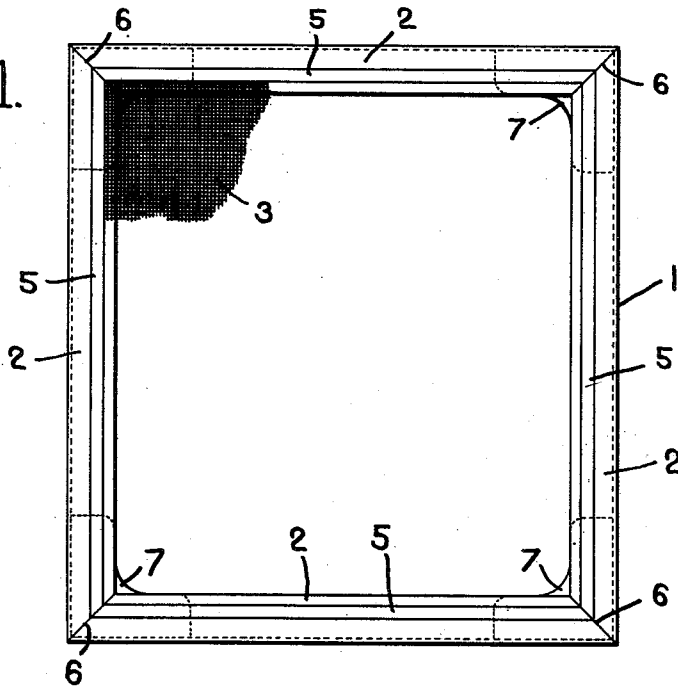


Fig. 2.

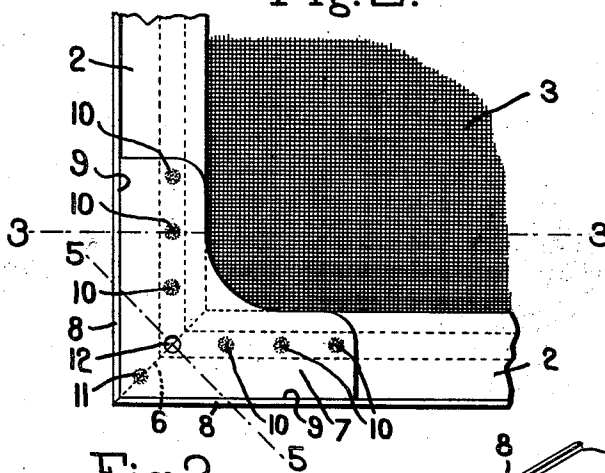


Fig. 3.

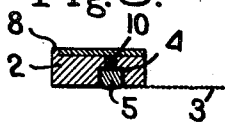


Fig. 5.

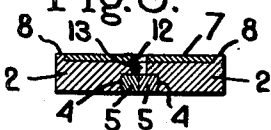
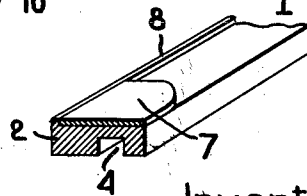


Fig. 4.



Inventor.
Frederick F. Haskell
by *Richard Smith & Tennant.*
Attys.

UNITED STATES PATENT OFFICE

FREDERICK F. HASKELL, OF ARLINGTON, MASSACHUSETTS, ASSIGNOR TO APEXEON COMPANY, OF JAMAICA PLAIN, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS

WINDOW SCREEN

Application filed July 22, 1929. Serial No. 380,204.

This invention relates to a metal window screen and has for its object to provide a novel window screen which is of rugged sturdy construction and yet which can be rapidly and inexpensively manufactured.

In order to give an understanding of the invention I have illustrated in the drawings a selected embodiment thereof which will now be described after which the novel features will be pointed out in the appended claims.

Fig. 1 is a front view of a window screen embodying my invention;

Fig. 2 is an enlarged fragmentary view of one corner of the screen showing the rear side thereof;

Fig. 3 is a section on the line 3—3, Fig. 2;

Fig. 4 is a fragmentary perspective view of one side rail of the screen showing part of the corner member;

Fig. 5 is a section on the line 5—5, Fig. 2; The window screen which is indicated generally at 1 is formed with the four side rails 2 which are connected together at the corners in a novel way. 3 indicates the window screen and this is attached to the sides 2 in usual way, said sides being provided with the grooves 4 in which the edges of the screen 3 are locked by means of the key members 5 that are forced into the grooves. This manner of fastening a wire screen to a frame is one which is commonly employed and is hence well known.

The frame 1 of the window screen is made with mitered corners, each end of each side rail being mitered as shown at 6. The two abutting sides at any corner are rigidly connected through the medium of a corner bracket 7 which is preferably of approximately the shape shown in Fig. 3. This corner bracket overlies the inner face of the screen and is spot welded to the meeting sides 2. Each side 2 is also formed with a lip 9 along its outer edge and the outer edges 9 of the corner bracket engage these lips 8 as clearly seen in Fig. 2. The lips have a depth equal to the thickness of the corner bracket 7 so that the outer face of the corner bracket comes flush with the lips.

Each corner bracket is spot welded to the sides of the frame along the line of the groove

4. In doing this a welding tool is used having one electrode which may be placed in the groove 4, the other electrode, of course, engaging the other face of the corner bracket 7.

The material of the sides 2 is thinner along the line of the groove 4 and by making the spot welds at this location it is possible to make a more satisfactory weld with less expenditure of power than if the weld were made through the entire thickness of the side pieces. Furthermore, this construction has the advantage that the places where the welding operation is performed do not show on the front face of the screen because they are covered by the key members 5.

The combination of the ribs or lips 8 engaging the outer edges 9 of the corner bracket together with the manner of spot welding the corner bracket to the sides of the screen makes a very sturdy and strong construction.

The points where the spot welding along the groove 4 occurs are indicated at 10 in Figs. 2 and 3.

I may, if desired, additionally weld the corner bracket 7 to the meeting sides 2 at a point 11 adjacent the corner although this is not essential. The corner bracket 7 is shown as having an aperture 12 which registers with an opening 13 formed in the meeting ends of the side members 2, these openings 12 and 13 being situated in registry with the grooves 4. The purpose of these apertures is to facilitate the removal of the key members 5.

If a pin or tool of the proper size is placed in the opening 12 it will engage the meeting key members and by tapping the pin slightly these key members can be loosened from the groove, as will be readily apparent.

I claim.

1. A window screen comprising a frame having mitered corners, each side member of the frame having a rib along its outer edge on its back face, each side member also having a groove extending longitudinally thereof on its front face, a corner bracket overlying the rear face of the frame at each corner and engaging the ribs of meeting sides, said corner bracket being spot welded to the frame along the grooves, wire screening for the

frame having its edges received in the groove, and key members driven into the grooves to lock the screen to the frame, said key members concealing the location of the spot welding.

2. A window screen comprising a frame having mitered corners, each side member of the frame having a rib along its outer edge on its back face, each side member also having a groove extending longitudinally thereof on its front face, a corner bracket overlying the rear face of the frame at each corner and engaging the ribs of meeting sides, said corner bracket being spot welded to the frame along the grooves, wire screening for the frame having its edges received in the groove, and key members driven into the grooves to lock the screen to the frame, said key members concealing the location of the spot welding, there being an aperture through the corner bracket and the frame in line with the grooves at the corner, whereby the key members may be engaged and loosened by a pin inserted through said apertures.

In testimony whereof, I have signed my name to this specification.

FREDERICK F. HASKELL.

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