

No. 881,282.

PATENTED MAR. 10, 1908.

C. C. ARMSTRONG.  
WINDOW OR LIKE SCREEN.  
APPLICATION FILED OCT. 6, 1906.

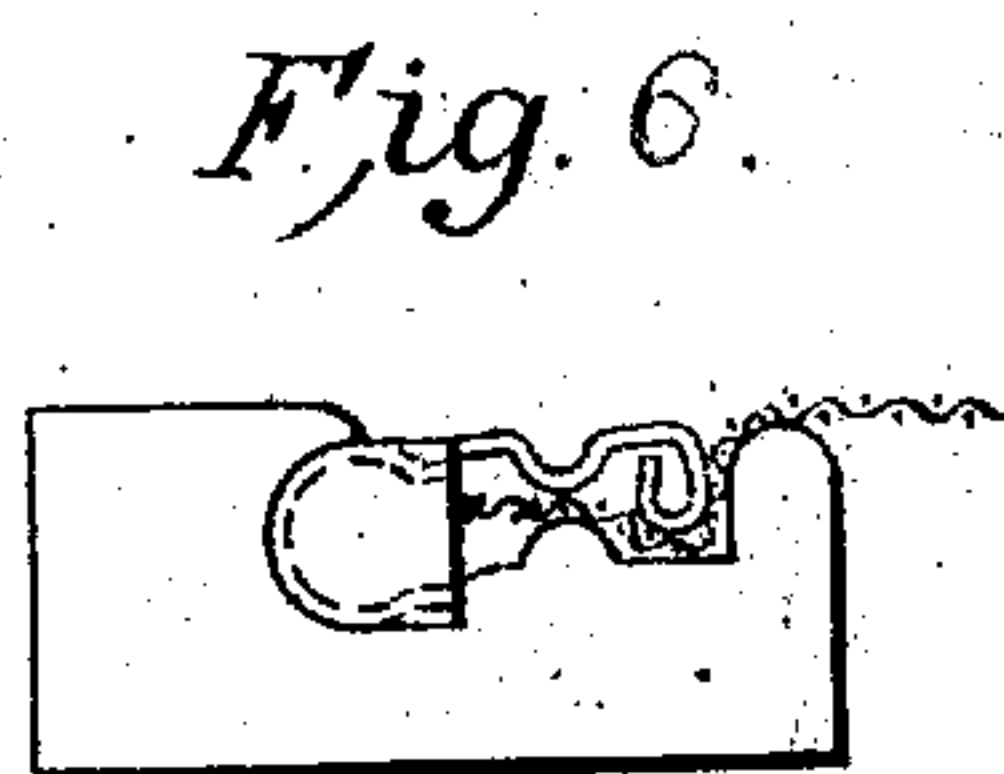
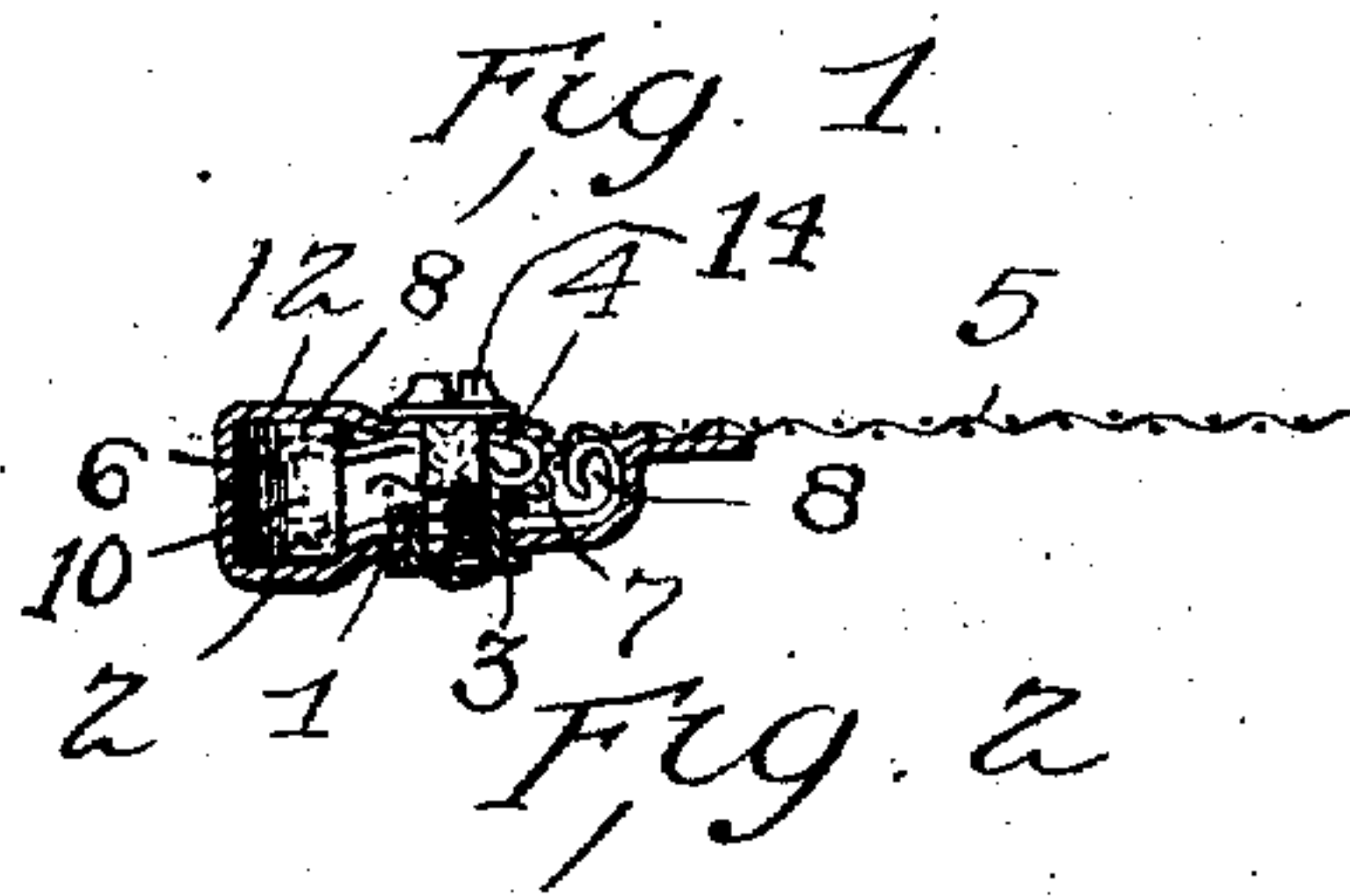
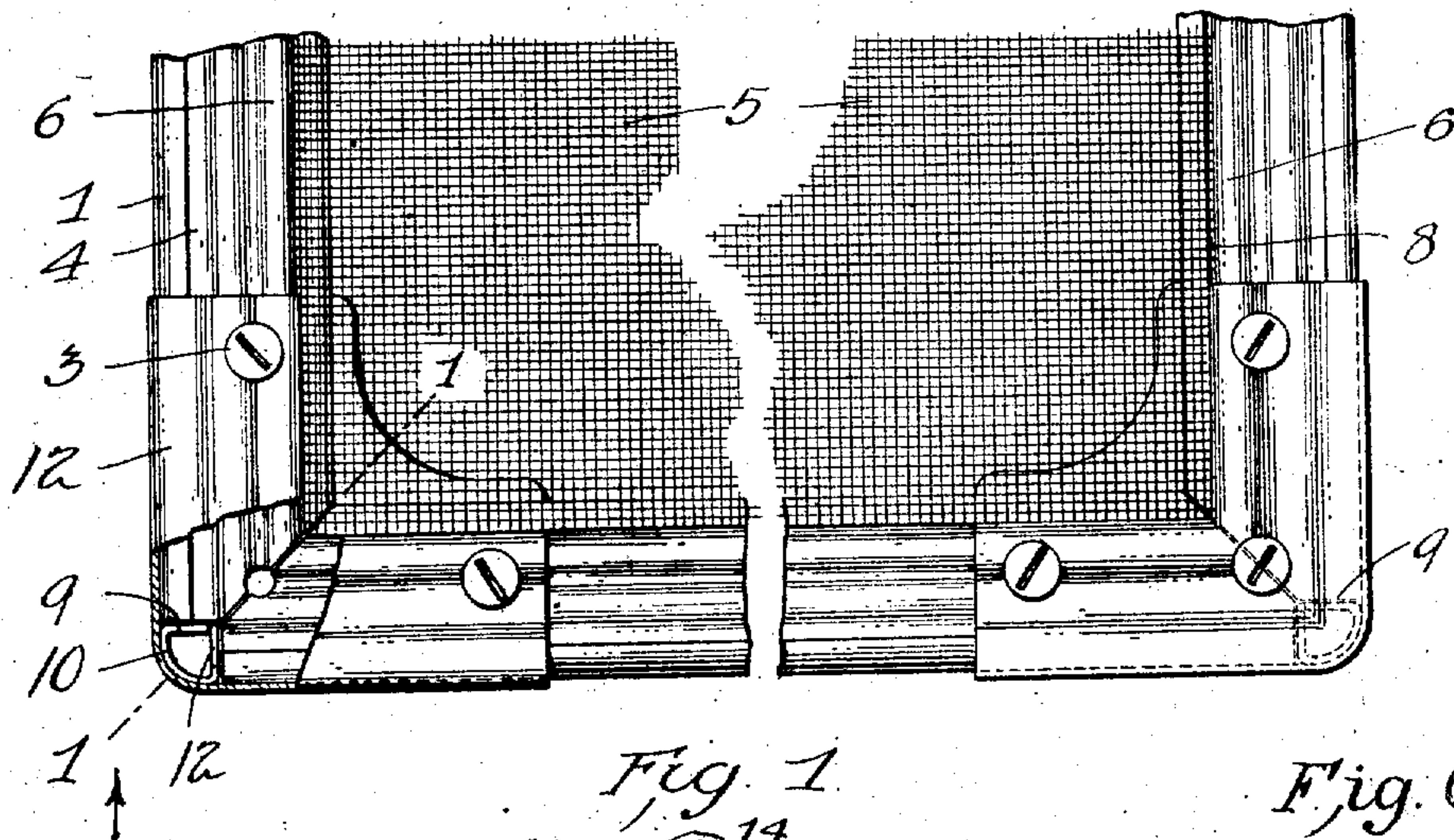


Fig. 3.

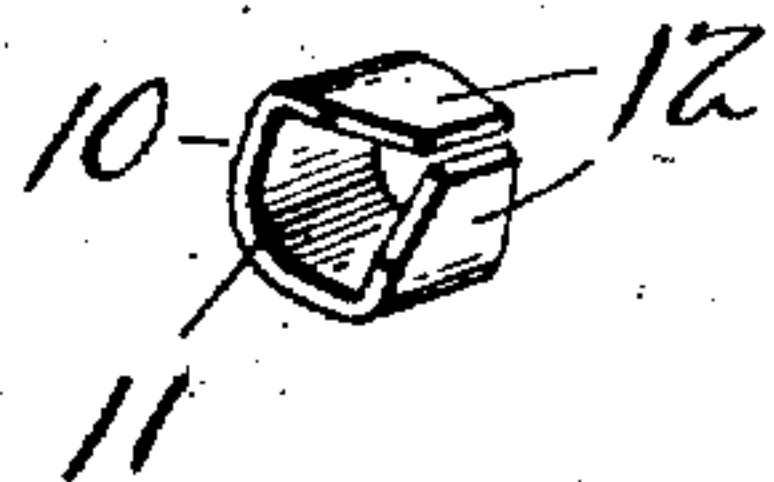


Fig. 5.

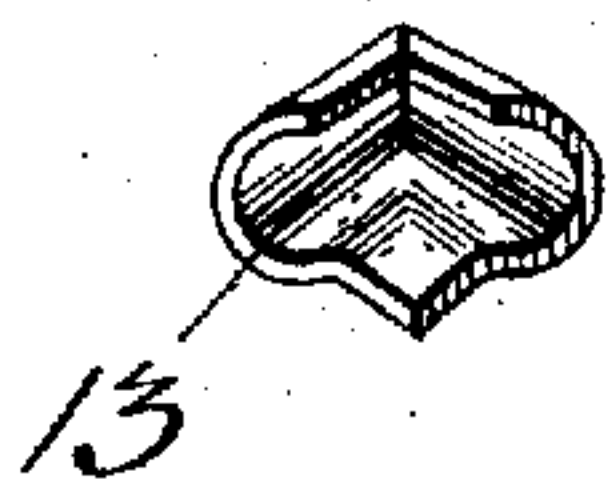
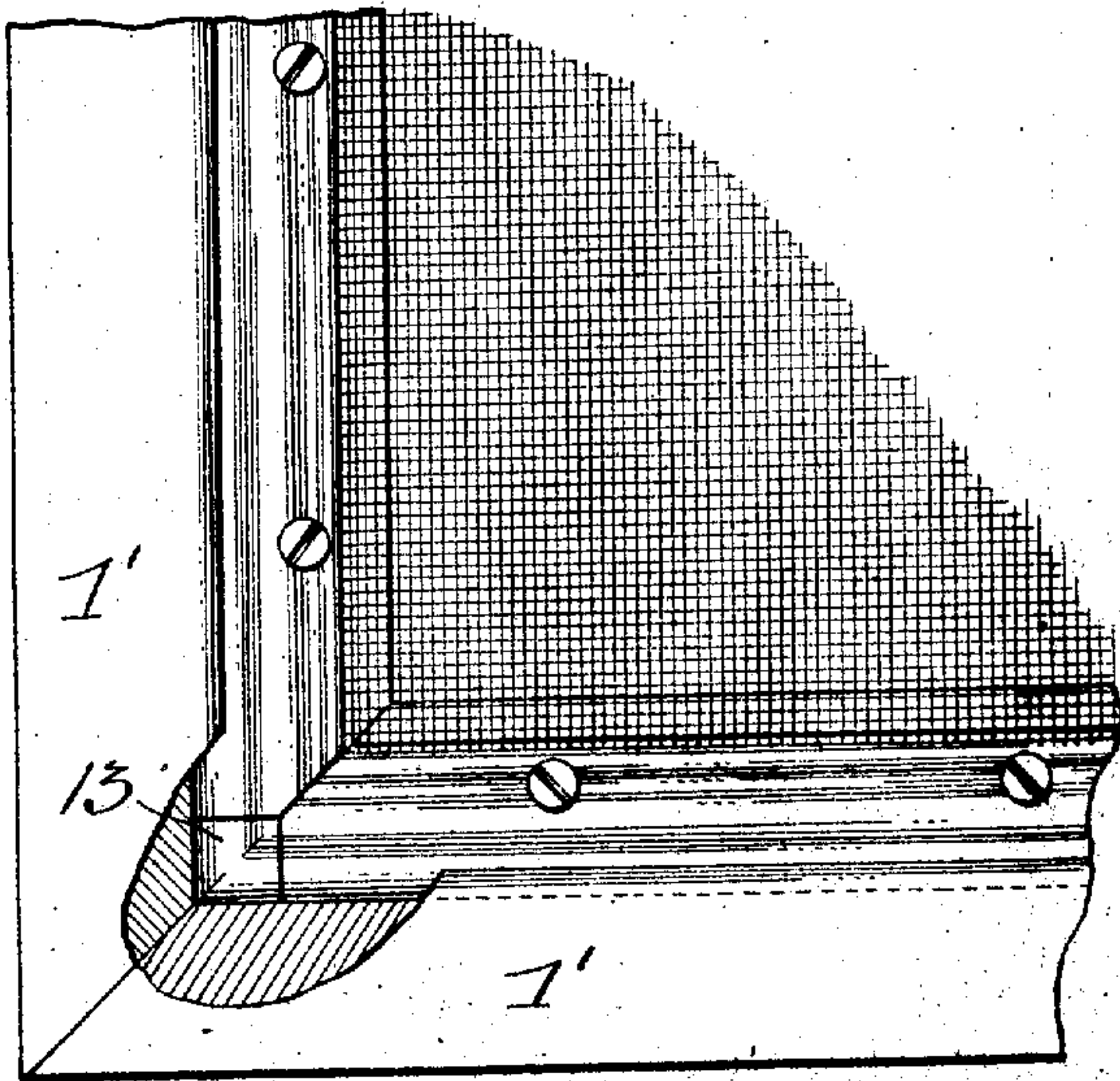


Fig. 4.



Attest:

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# UNITED STATES PATENT OFFICE.

CHARLES C. ARMSTRONG, OF MARYSVILLE, OHIO.

## WINDOW OR LIKE SCREEN.

No. 881,282.

Specification of Letters Patent.

Patented March 10, 1908.

Application filed October 6, 1906. Serial No. 337,805.

*To all whom it may concern:*

Be it known that I, CHARLES C. ARMSTRONG, a citizen of the United States, residing at Marysville, Ohio, have invented certain new and useful Improvements in Window or Like Screens, of which the following is a specification.

My invention relates to window or like screens, such for instance as is disclosed in Letters Patent of the United States granted to Charles C. Armstrong, July 17, '06, No. 825952. The screen as disclosed in said patent comprises essentially frame members between which the screen cloth is clamped, one of said clamping members having a pivotal movement in relation to the other clamping member whereby the screen cloth may be renewed by simply removing certain fastening devices and moving the pivoted clamping member in relation to the main clamping member so as to provide the necessary opening for the introduction of the screen material.

My present invention relates to means whereby the pivoted clamping members may be inserted in proper position after the window or door frame is completed, the said means serving also to keep the clamping members from working endwise when they are tilted up for the purpose of inserting the wire cloth.

The invention consists in the features and combination and arrangement of parts hereinafter described and particularly pointed out in the claims.

In the accompanying drawings,—Figure 1 is a view of a window screen with my invention in place. Fig. 2 is a sectional view on the line 1—1 of Fig. 1 with the filling piece, however, in elevation. Fig. 3 is a detailed perspective view of the filling piece. Fig. 4 is a front view of a part of the door screen showing a modified form of corner piece. Fig. 5 is a detailed perspective view of the said corner piece. Fig. 6 is a detail sectional view similar to Fig. 2 but showing the frame illustrated in Fig. 4.

The screen frame is composed of frame members 1, attached to each other by means of corner pieces 2, and by eyelets or rivets 3. The clamping or frame members 1 have cooperating therewith movable clamping members 4 co-extensive therewith and between which and the members 1 the screen cloth or fabric 5 is held. There is one of the movable

members 4 for each side of the rectangular frame and these have miter joints at the corners. These movable members have rounded or rolled portions, 6, adapted to work or turn in the channeled portions 7 of the main frame or clamping members 1. The channeled portion 7 is formed by an overhanging part or flange 8 of the main frame member 1, and by reason of the relative dimensions and arrangements of the movable and fixed members, I have found it necessary to provide means whereby these movable members may be inserted into the main frame when this is in complete form. For this purpose I cut away the ends of the beveled or mitered portions of the movable clamping members as shown at 9, the cut-away faces at the adjacent ends of the movable members lying at right angles to each other and in the space thus formed a filling piece 10 is inserted. This filling piece in Fig. 1 consists simply of a strip of metal having rounded side or corner portions 11 and inwardly extending arms or portions 12, the ends of which abut against each other and the outer faces of which afford bearings for the cut-away ends of the mitered sections or clamping members 4. It will be seen from this construction that the mitered members can be inserted into the main members after these main members have been made up to form the rectangular frame and have been united together. In other words, the movable members may be placed in position with their rounded or rolled edges beneath the overhanging portions of the outer or main frame 1, this being permitted by the cutting-away of the ends of said movable sections and the space thus formed being filled by the filling piece. This filling piece serves the purpose also of preventing the movable clamping members from having endwise movement when they are tilted or raised for the purpose of inserting the screen cloth between themselves and the main members of the frame. In Fig. 1 the frame is completed by a corner clamp 12<sup>x</sup> held by screws passing therethrough and entering the eyelets or openings in the corner pieces 2 above described. This corner clamp in this form of the invention covers the filling piece and the mitered ends of the movable clamping members and, of course it is not placed in position and secured by the screws 14 until after the movable clamping members 4 are in.



The parts above described are preferably formed of metal, though I do not limit myself in this particular.

In the modification shown in Figs. 4 and 5, 5 the main frame is made up of wooden strips 1', united together in any suitable manner and these wooden strips are formed with the overhanging portion of the channel to receive the movable clamping members which coacts 10 with the wooden members in a manner similar to that above described for the purpose of clamping the screen cloth in place. In this construction also the mitered ends of the movable clamping members are cut-away for 15 the purpose of allowing the said members to be inserted after the main frame has been completed. These cut-away members would leave an opening at the corner, but this is filled by a piece 13, formed of sheet metal and 20 preferably beaded to form continuations of the bead on the clamping member. This piece not only serves to prevent longitudinal displacement of the clamping members when raised for the purpose of replacing the screen 25 cloth, but also for the purpose of filling the opening which otherwise would be left at the corner. This filling piece may be of the same metal as that comprising the movable members, in which case the joint would 30 hardly be perceptible.

While the form of the invention first described is adapted for windows and the latter form to doors, I do not limit myself to any particular application of my invention.

When embodied in the form first described 35 the filling piece may be used also to fill up the space left by cutting off the mitered ends of the fixed frame members.

I claim as my invention:—

1. In combination, a screen composed of 40 the main frame members, movable clamping members having mitered ends cut-away, and a filling piece arranged in the space left by the cut-away portions of the movable clamping members, substantially as described. 45

2. In combination in a screen, the main frame composed of members having a channel with an overhanging portion, the movable clamping members having pivotal movement in relation to the said main frame members and having mitered ends cut-away, and a 50 filling piece in the space left by these cut-away portions, substantially as described.

3. In combination with the main frame members the clamping members mitered at 55 the corners and cut off and fitting within a portion of the main frame members, and a filling piece abutting against the ends of the clamping members and having a face portion forming a continuation of faces of the clamping members, substantially as described. 60

In testimony whereof, I affix my signature in presence of two witnesses.

CHARLES C. ARMSTRONG.

Witnesses:

L. HENDERSON,  
C. W. HOOPER.