No. 871,267 PATENTED NOV. 19, 1907.

J. GIARDINO.

WINDOW PANE FASTENER.

APPLICATION FILED APR. 9, 1907.

Fig. 1.

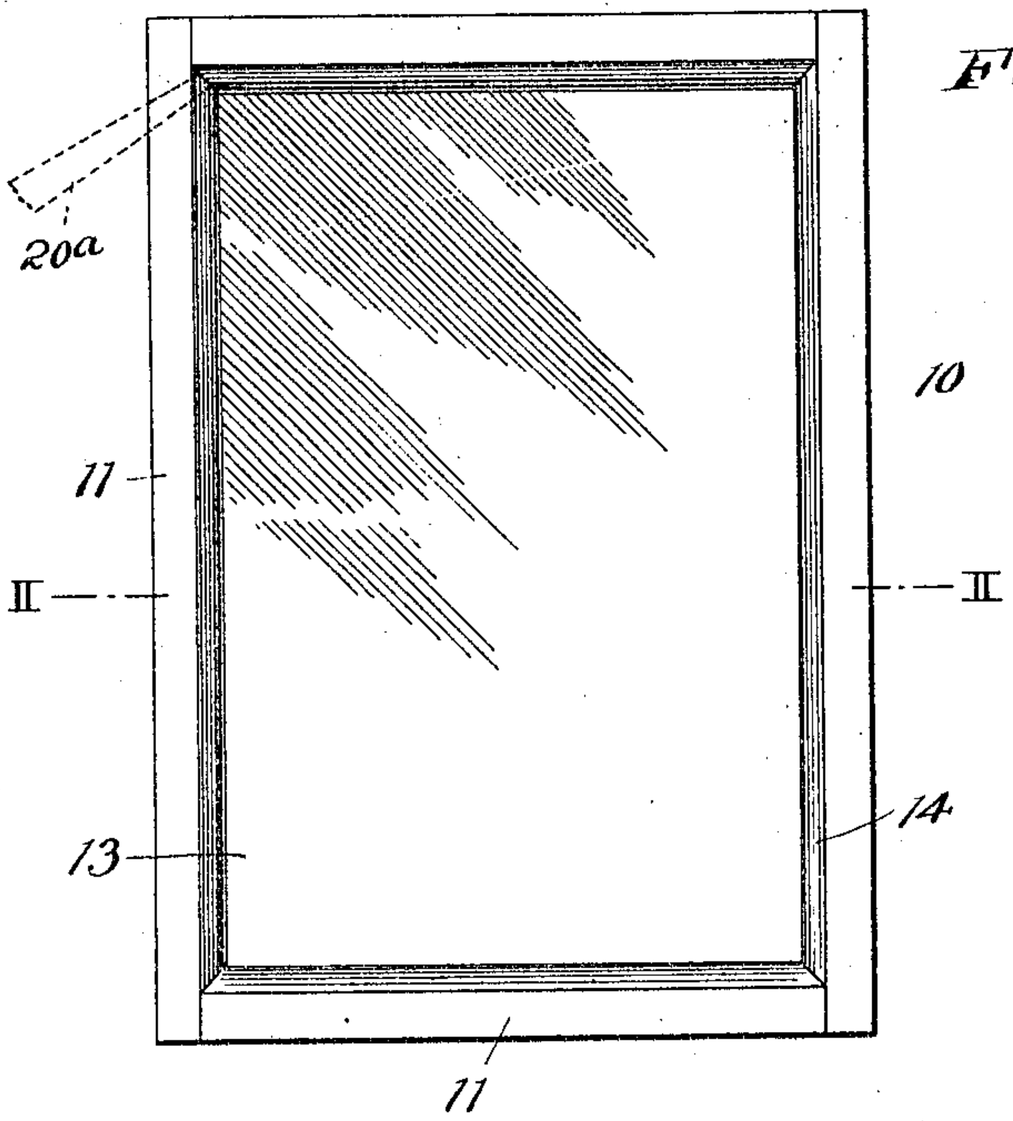


Fig. 2.

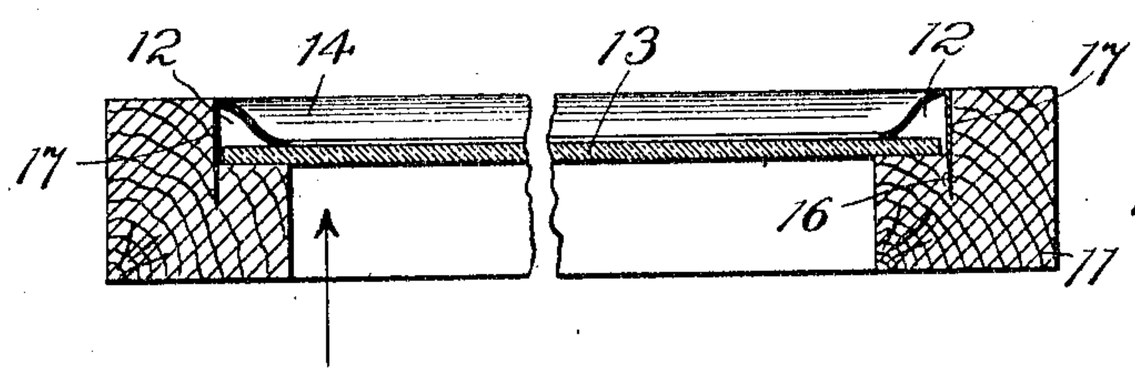


Fig. 5.

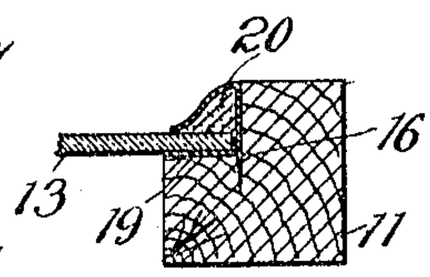


Fig. 3.

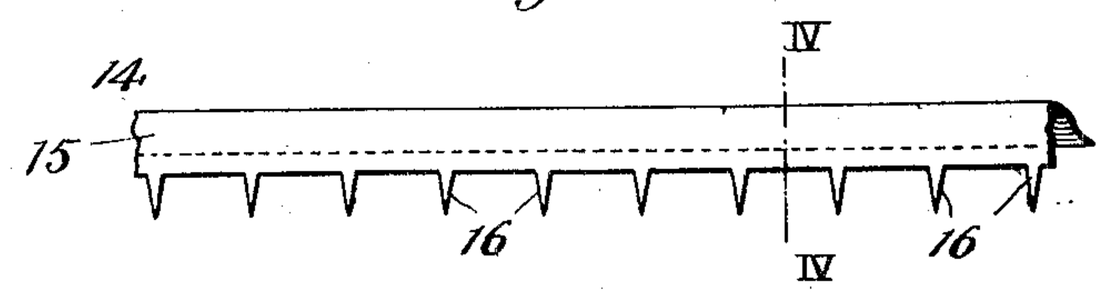
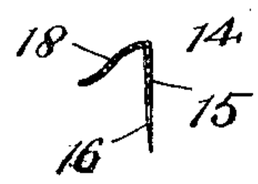


Fig. 4.



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WINDOW-PANE FASTENER.

No. 871,267. Specification of Letters Patent. Patented Nov. 19, 1907.

Application filed April 9, 1907. Serial No. 367,274.

To all whom it may concern:

Be it known that I, JOACHIM GIARDINO, a subject of the King of Italy, and a resident of Guttenberg, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Window-Pane Fasteners, of which the following is a full, clear, and exact description.

This invention relates more particularly to a metallic fastener for window panes; and the primary object of the invention is to provide a simple and efficient device which will rigidly and effectively secure the glass in the frame; which is adapted to eliminate the trouble and expense in keeping the glass cemented in the frame and at the same time avoid the objectionable feature of having the usual putty crack and break, thereby causing dust, water and other matter to collect; which may be readily cleaned at all times, and which is neat and attractive in appearance.

A further object of the invention is to provide a fastener which may be applied as a metallic molding, and which has devices thereon adapted to be forced into the wood of the window frame; which is cheap and inexpensive to manufacture, and which may be readily applied to hold the pane of glass in the window.

The invention will be hereinafter more particularly described with reference to the accompanying drawings, which form a part of this specification, and will then be pointed out in the claims at the end of the description.

In the drawings, Figure 1 is an elevation of one form of window with my invention applied thereto. Fig. 2 is a transverse section, on a larger scale and partly broken away, taken on the line II—II of Fig. 1. Fig. 3 is a detail elevation of the fastener. Fig. 4 is a section taken on the line IV—IV of Fig. 3; and Fig. 5 is a transverse section showing how putty or other sealing means may be employed in connection with the fastener.

The frame 10 may be of the usual form and comprises the wooden bars or strips 11 which are recessed at 12 for the pane of glass 13 in the usual manner. The pane 13 is held to the bars or strips 11 by the fastening device 14. This fastening device may be made of galvanized iron, steel, brass or other sheet metal, and has a straight part or wall 15, and projections 16 which are adapted to enter the wood of the frame and securely hold the fastener thereto. The part 15 of the fastener is adapted to normally rest against the wall 17 of the window frame so as to be supported thereby, and said fastener has a part 18 which may be yielding and which projects inward and downward so that the edge thereof will rest against the window glass or pane and securely hold the same in the frame. The wall or part 15 of the fastener may have the projections 16 sharpened to enter the wood more readily and said projections may be of any width or size according to the hardness or nature of the material comprising the frame, and the part 18 of the fastener may be curved as in a molding to form an ogee or S-curve to provide a neat and attractive finish to the frame. By this means the glass will be securely held in the frame, and the fastener is so constructed that it may be readily applied or removed in case it is desired to replace a broken glass.

Ordinarily the fastener will provide an effective seal against the weather and water without any further provision, but if necessary or desirable, a yielding strip or other sealing means 19 may be employed between the glass and the strip or bars forming the window frame as shown in Fig. 5. In this figure I have shown a fastener substantially identical to that already described and I show how putty or other material 20 may be employed as a filler and to assist in cementing the parts together. In this case the fastener not only serves to hold the pane of glass to the frame, but also serves to cover the putty so that the same will not be exposed to the weather.

If it is necessary to remove the fastener at any time, this can be readily accomplished by inserting a sharp tool at one corner under the edge of the fastener as shown in dotted lines at 20^a in Fig. 1, while the fastener may be applied by simply forcing the projections 16 into the wood until the part 18 rests against the glass.

From the foregoing it will be seen that simple and efficient means is provided whereby the glass may be securely and properly held in the window frame; that the fastener serves to provide a neat and attractive finish to the window; that the fastener may be readily applied or removed and is inexpensive to manufacture; and that the fastener when applied will provide a smooth, clean and attractive surface which will not permit dust or other matter to readily collect thereon.

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

1. The combination with a frame and a pane of glass fitting the frame, of a fastener comprising a metallic strip having a straight wall or part, projecting points formed as a part of the wall and entering the wood of the frame so that the wall will be supported and rest against the wood part of the frame, and an outer and downward extending yielding part having the lower edge thereof engaging the surface of the pane of glass and holding the same rigidly in the frame.

2. The combination with a window frame having the usual bars or strips recessed to provide a straight part lengthwise of said strips and a pane of glass supported in the recessed portion of the bars or strips, of a metallic fastener comprising a metallic strip having a straight part or wall which rests against the straight part or wall of the bars or strips of the frame and having sharpened projecting points integral with the wall which enter the wood of the frame, and an outward and downward projecting integral curved yielding part having its outer edge engaging the surface of the glass to be held in the frame.

This specification signed and witnessed this fifth day of April A. D. 1907.

JOACHIM GIARDINO.

Witnesses:
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