

No. 875,226.

PATENTED DEC. 31, 1907.

J. S. WALLACE.
WINDOW SASH CLAMP.
APPLICATION FILED MAR. 22, 1907.

Fig. 1.

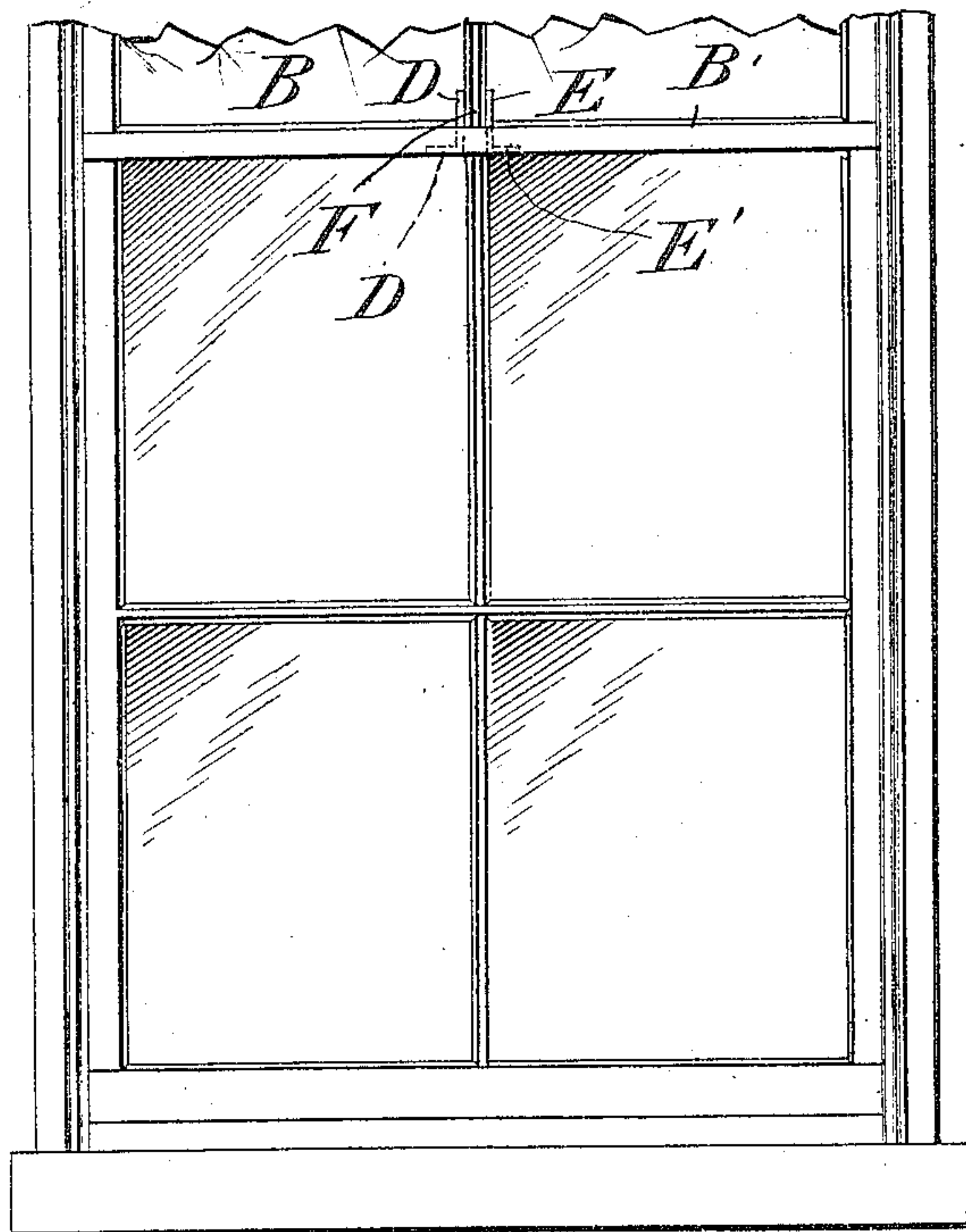


Fig. 5.

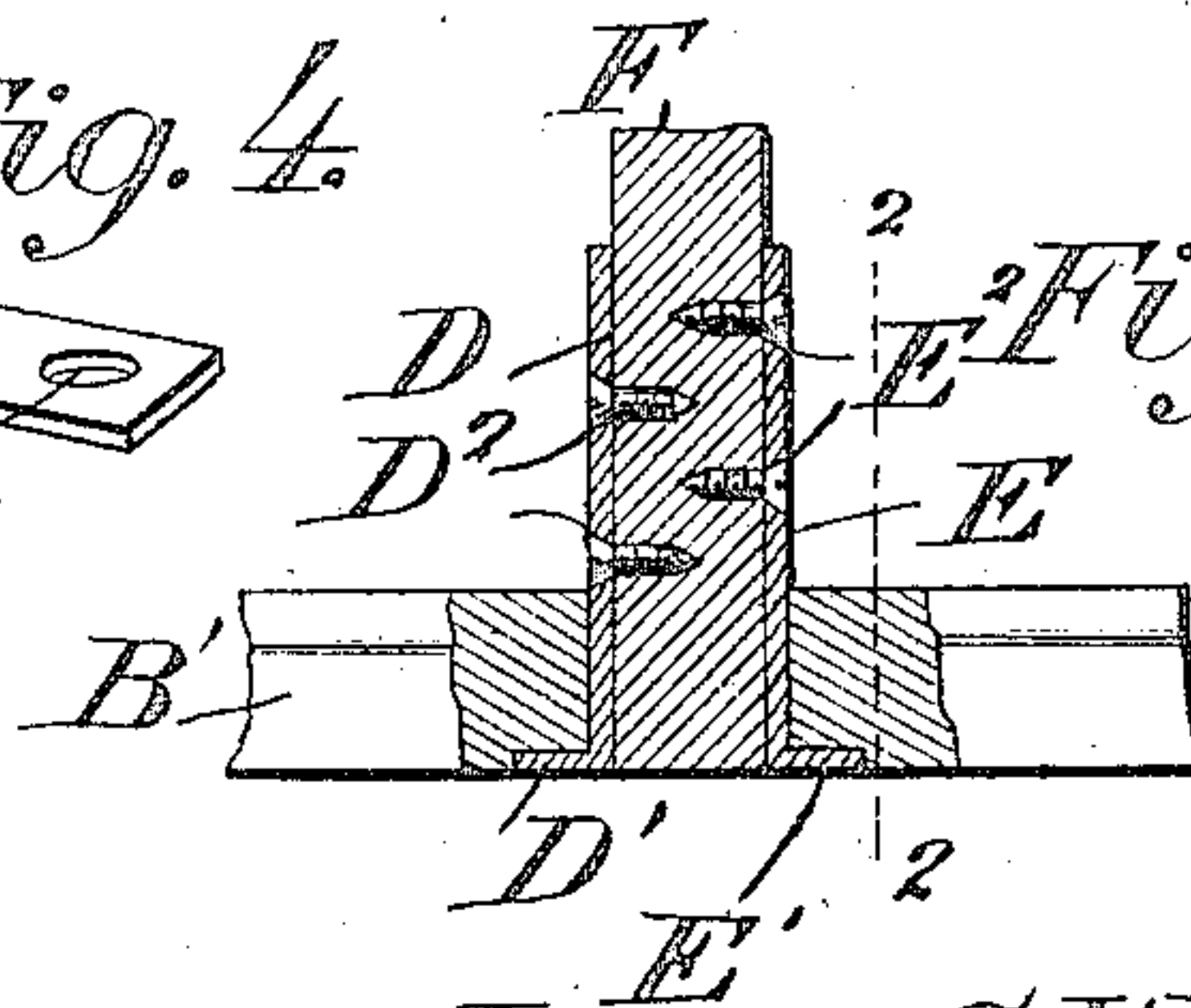
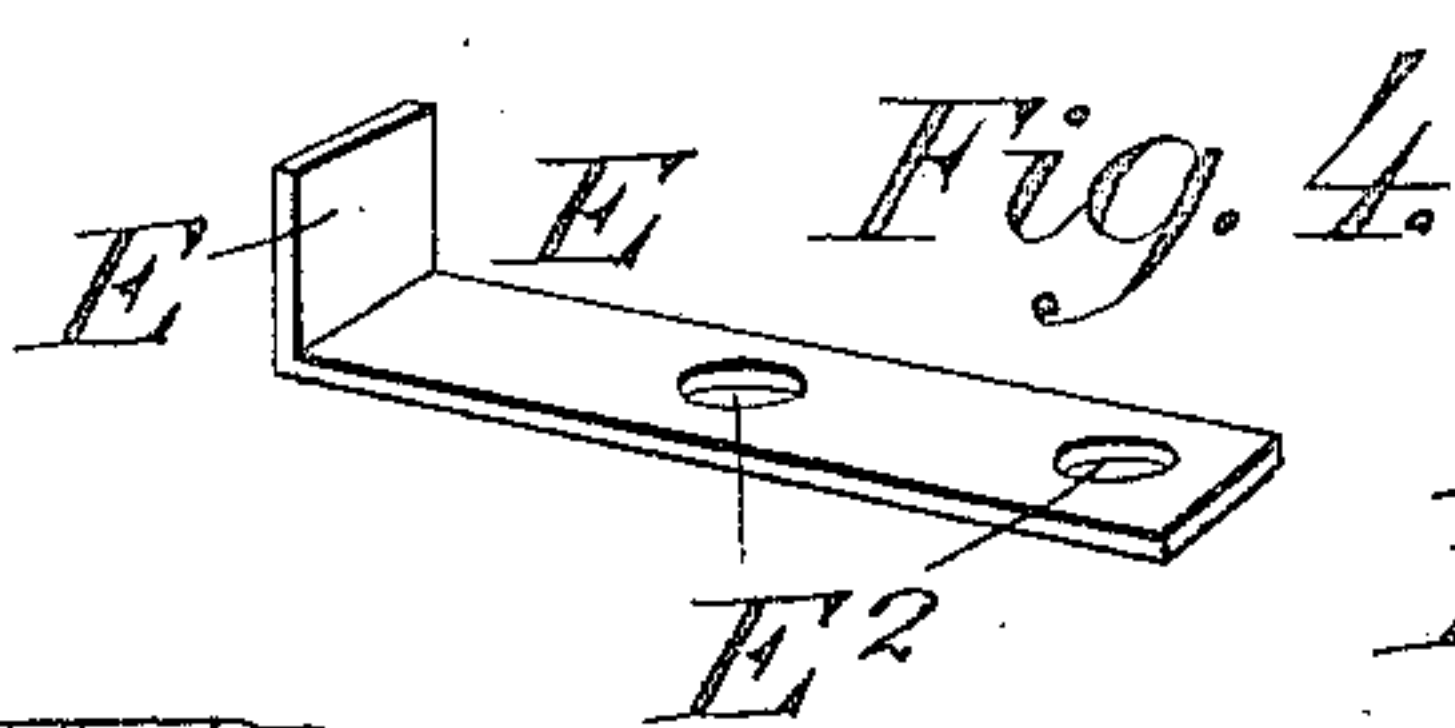
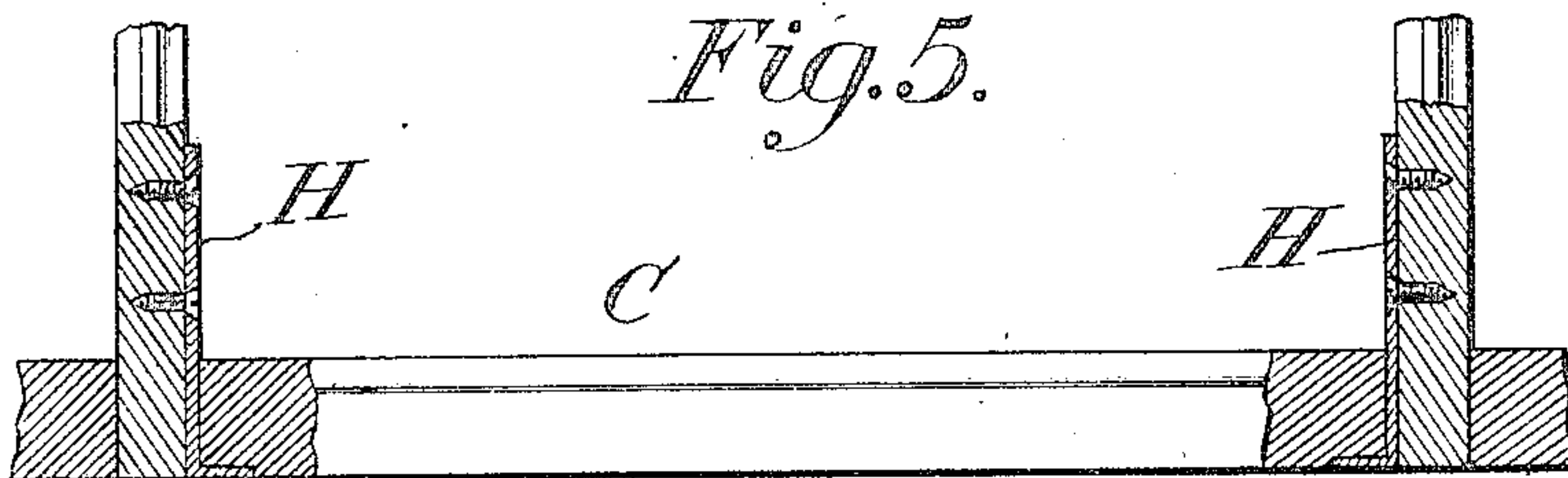
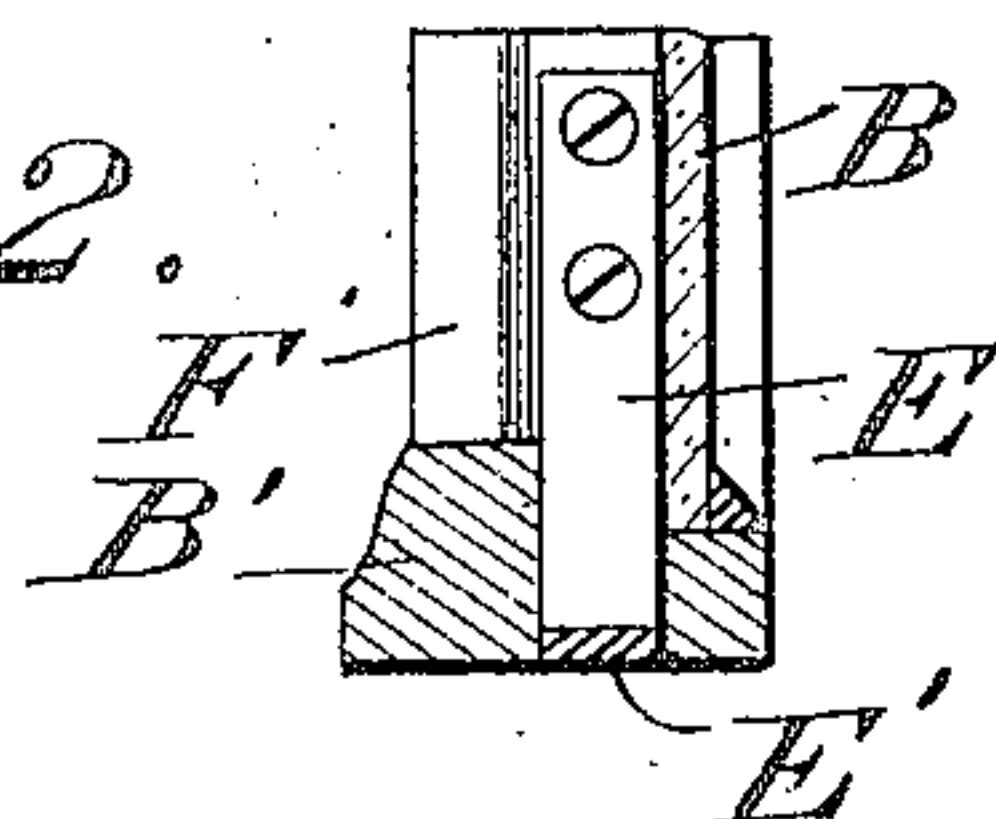


Fig. 2.



Witnesses

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WINDOW-SASH CLAMP.

No. 875,226.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JAMES S. WALLACE, a citizen of the United States, residing at Rockport, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in a Window-Sash Clamp, of which the following is a specification.

This invention relates to window sashes and more particularly to braces for the bottom rail of the top sash, the object being to provide a brace which can be easily and quickly attached to the vertical mullions and one which will securely support the bottom rail, so that all danger of it sagging and pulling away from the mullions is prevented, thereby overcoming the difficulties now existing of the bottom rail of the upper sash sagging and causing the putty to drop out and allow the rain and moisture to lodge therein, which soon rots the rail out.

With this and other objects in view the invention consists in the novel features of construction, combination and arrangement of parts hereinafter fully described and pointed out in the claims.

In the drawing forming a part of this specification: Figure 1 is an outside elevational view of a window showing my improved base applied to the upper sash. Fig. 2 is a section taken on lines 2—2 of Fig. 3. Fig. 3 is a detail view of a rail and mullion partly broken away showing the braces in position. Fig. 4 is a perspective view of one of the braces. Fig. 5 is a detail side elevational view of a portion of a rail provided with two mullions of a modification showing one brace on a mullion.

Referring to the drawing A indicates the lower sash and B the upper sash of the ordinary construction of four pane window sash. A mortise C is formed in the bottom rail B' of the upper sash and the under side of the rail has recesses at each side of the mortise, in which recesses the angled ends D', E' of the braces D and E are seated, which braces extend upwardly through the mortise and between which braces the tenon formed on the end of the vertical mullion F is adapted to fit, and to be secured in the mortise of the rail. The braces are provided with spaced

openings D² E² through which screws or nails are adapted to pass and secure the braces to the mullions, so as to securely support the rail at the center so that it cannot sag. The openings in the braces are so arranged in respect to each other that the screw or nails of one brace will not interfere with the screws or nails of the opposite brace.

When there is more than one mullion used, as in six or eight pane sashes, as shown in the modification, the bottom rails G are provided with only one recess in their under edge adjacent each mortise to receive the angled ends of a single brace H, as the bottom rail is not subject to so much strain and a single brace is sufficient to support the rail at each mullion without any danger of warping or sagging.

From the foregoing description it will readily be seen that by providing the upper rail with braces, the bottom rail will be securely locked to the vertical mullions without any danger of the rail sagging or warping.

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

1. In a sash, the combination with the bottom rail provided with a mortise, of braces secured in said mortise and a mullion arranged in said mortise secured to said brace.

2. In a sash, the combination with the bottom rail having recesses formed in the under side adjacent to the mortise, braces secured in said mortise having angled ends fitting in said recesses and mullions arranged in said mortises secured to said braces.

3. In an upper sash, the combination with the bottom rail provided with mortises having recesses formed in its under side adjacent the mortises, tenons formed on the end of mullions arranged in said mortises, braces extending through said mortises provided with angled ends fitting in said recesses, and screws or nails passing through said braces into said mullions.

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Witnesses:

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