

No. 641,037.

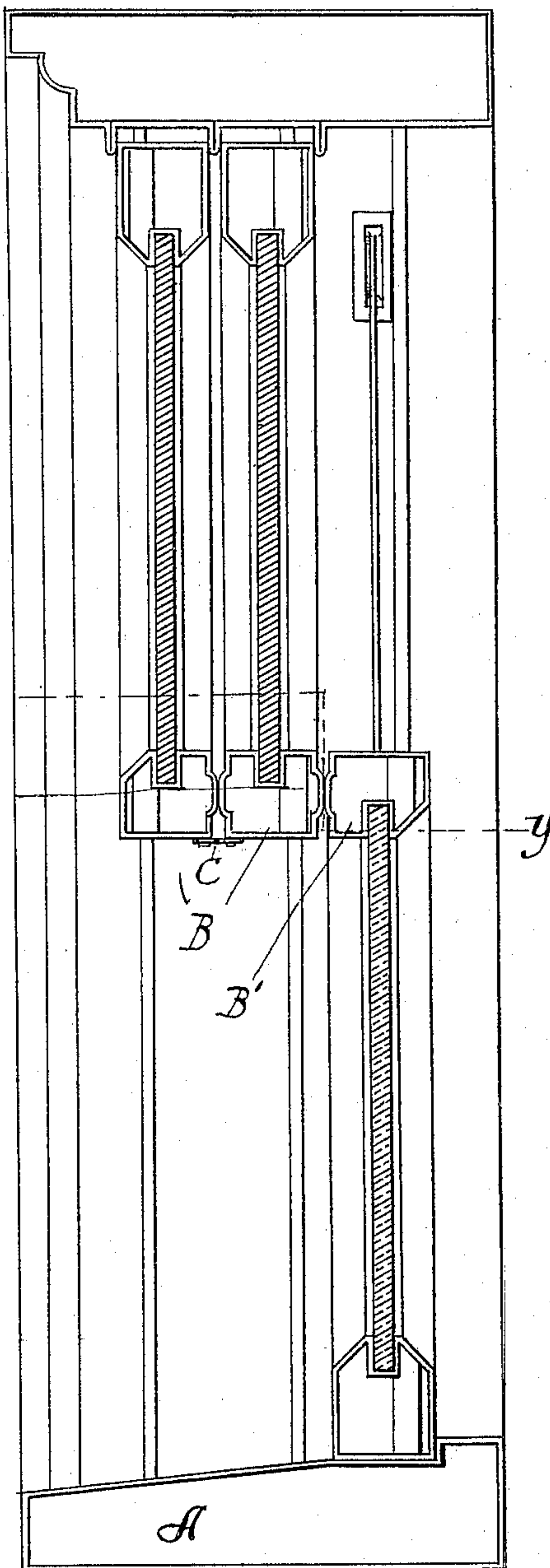
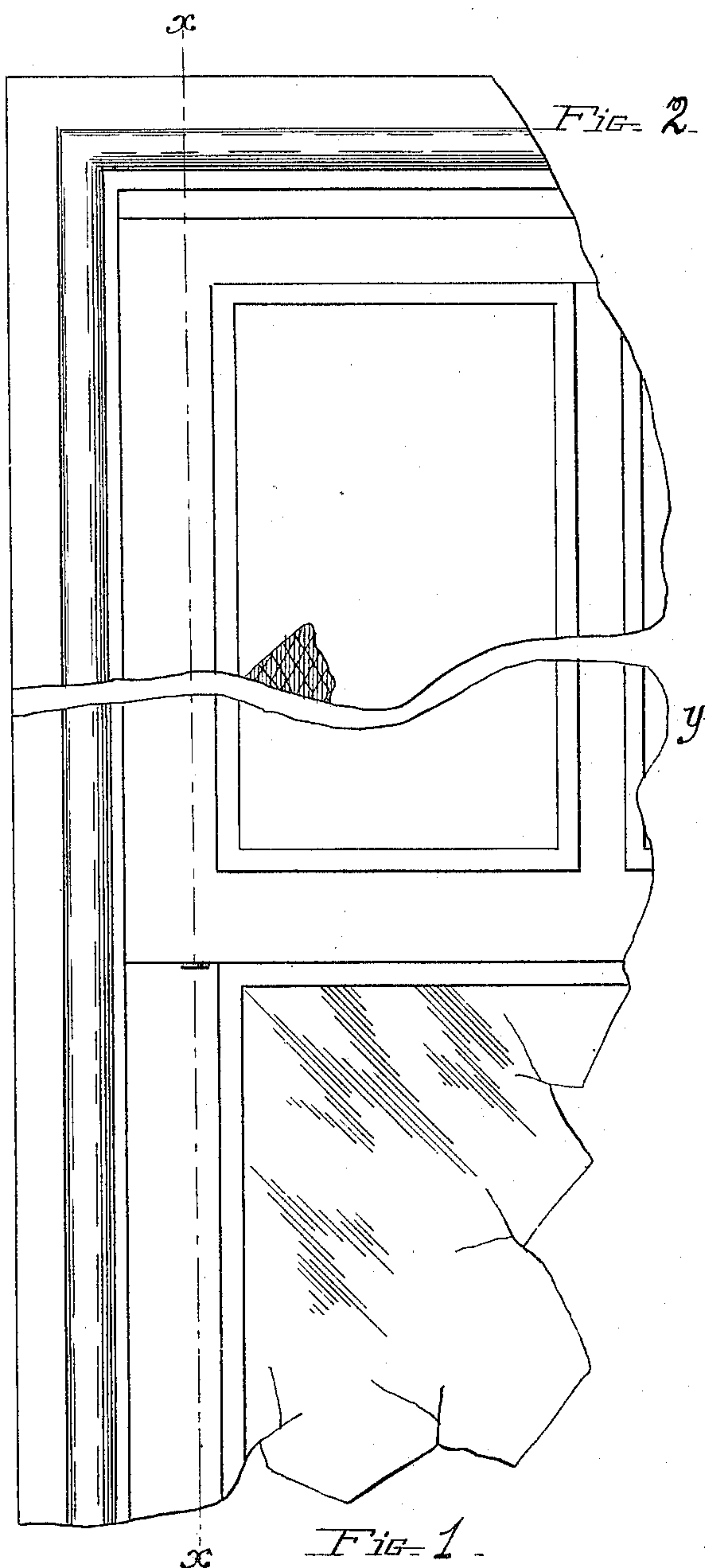
Patented Jan. 9, 1900.

A. RASNER.
WINDOW FRAME AND SASH.

(Application filed Apr. 4, 1899.)

(No Model.)

2 Sheets—Sheet 1.



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2 Sheets—Sheet 2.

Fig. 3

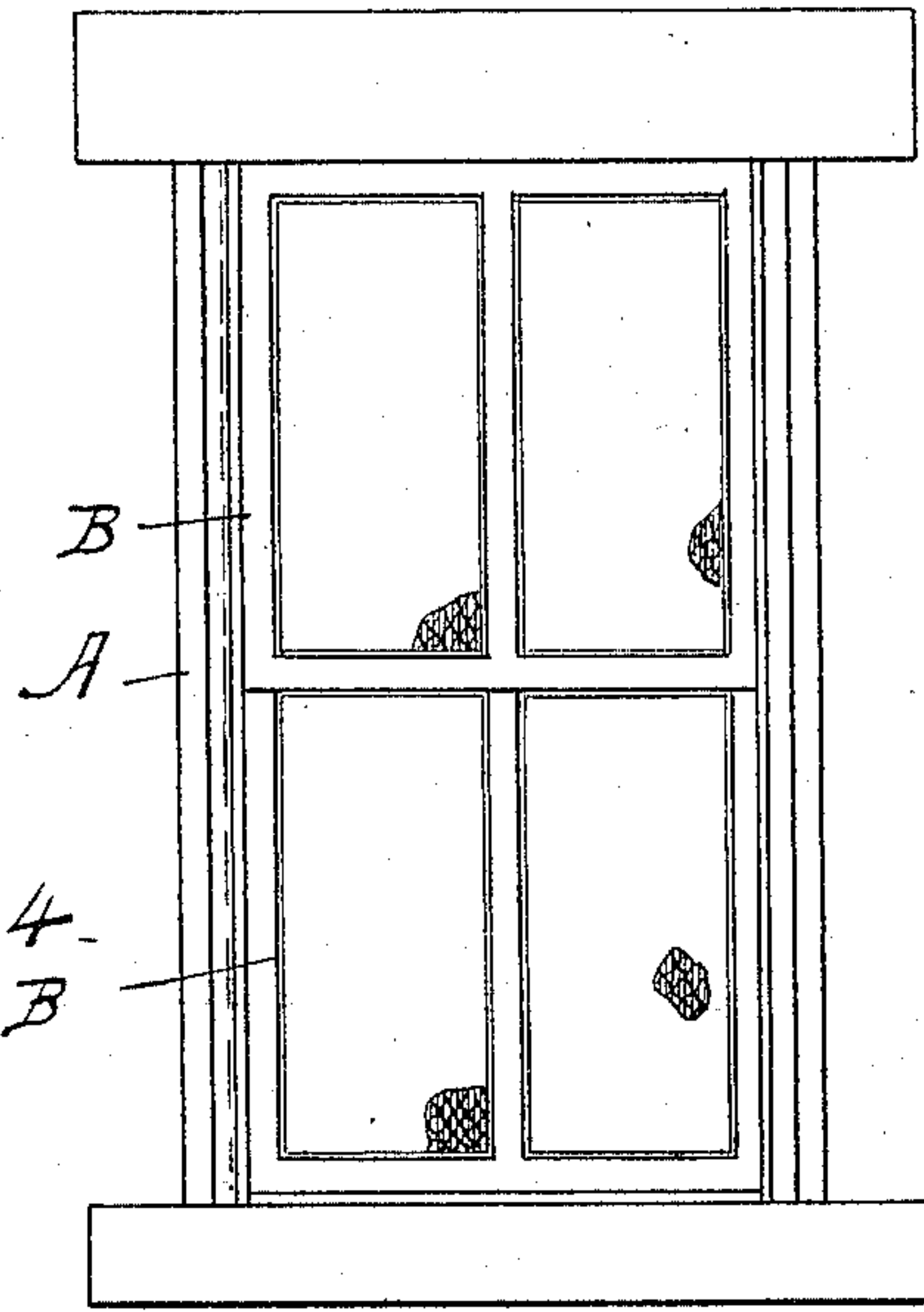
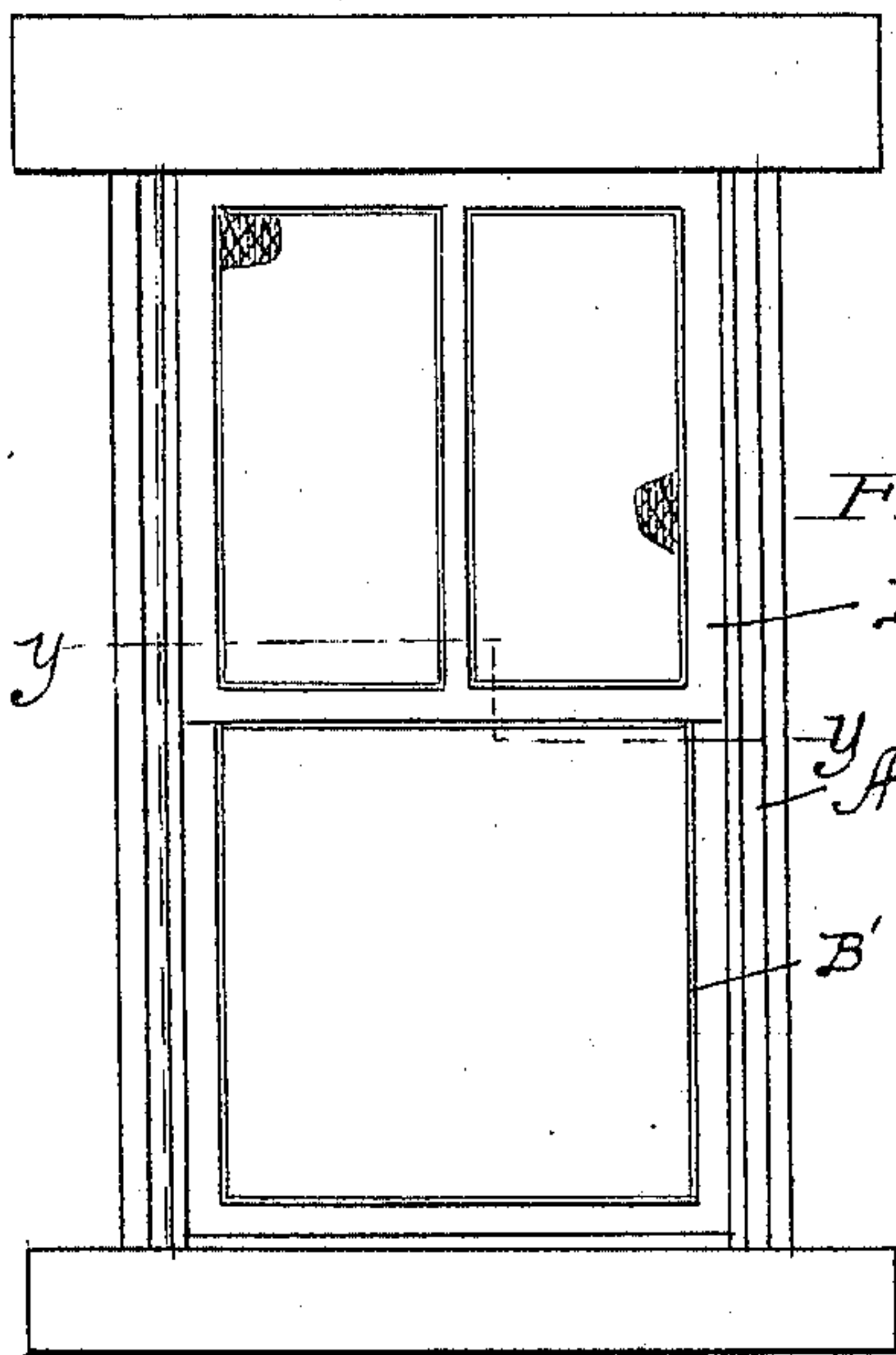
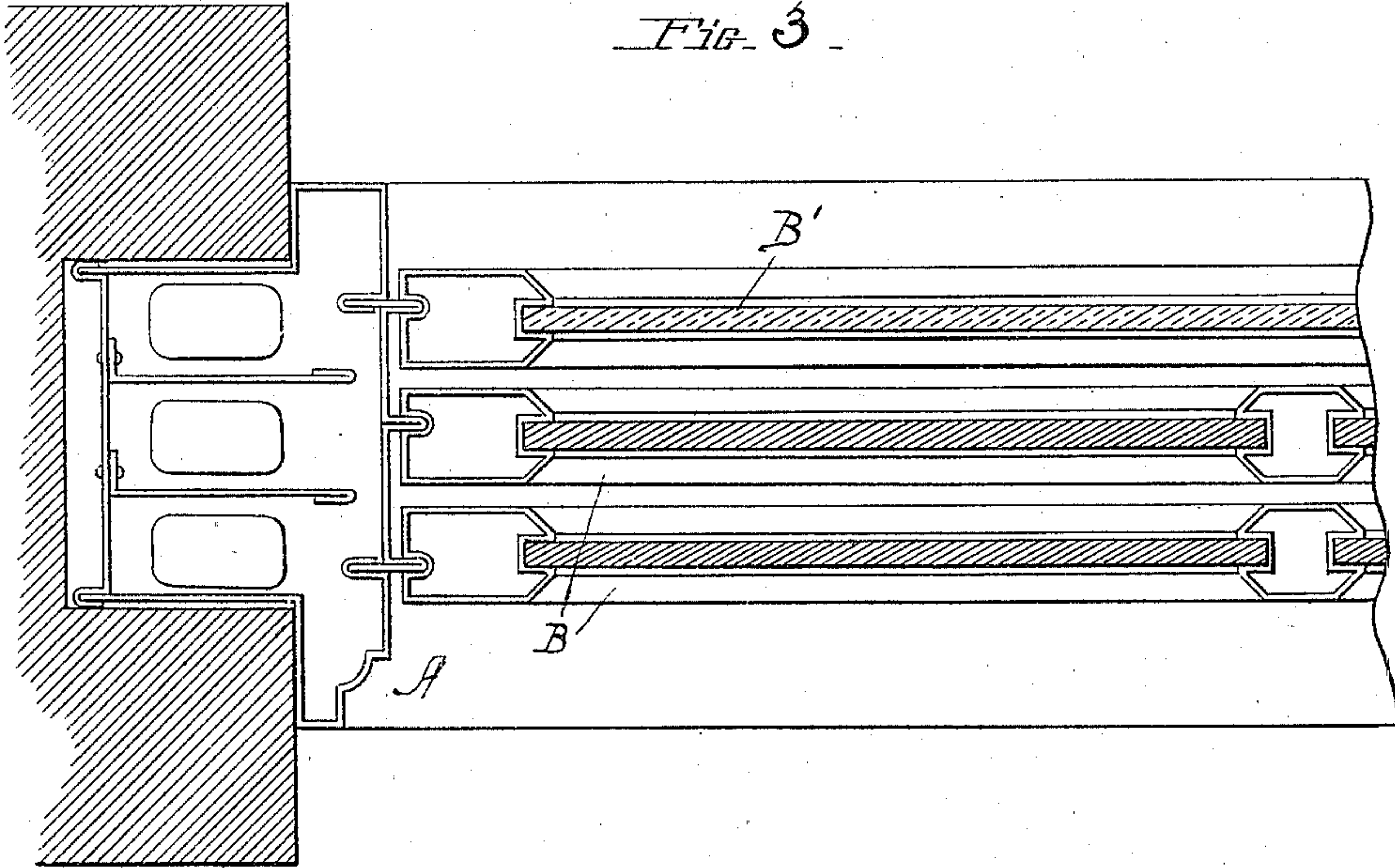
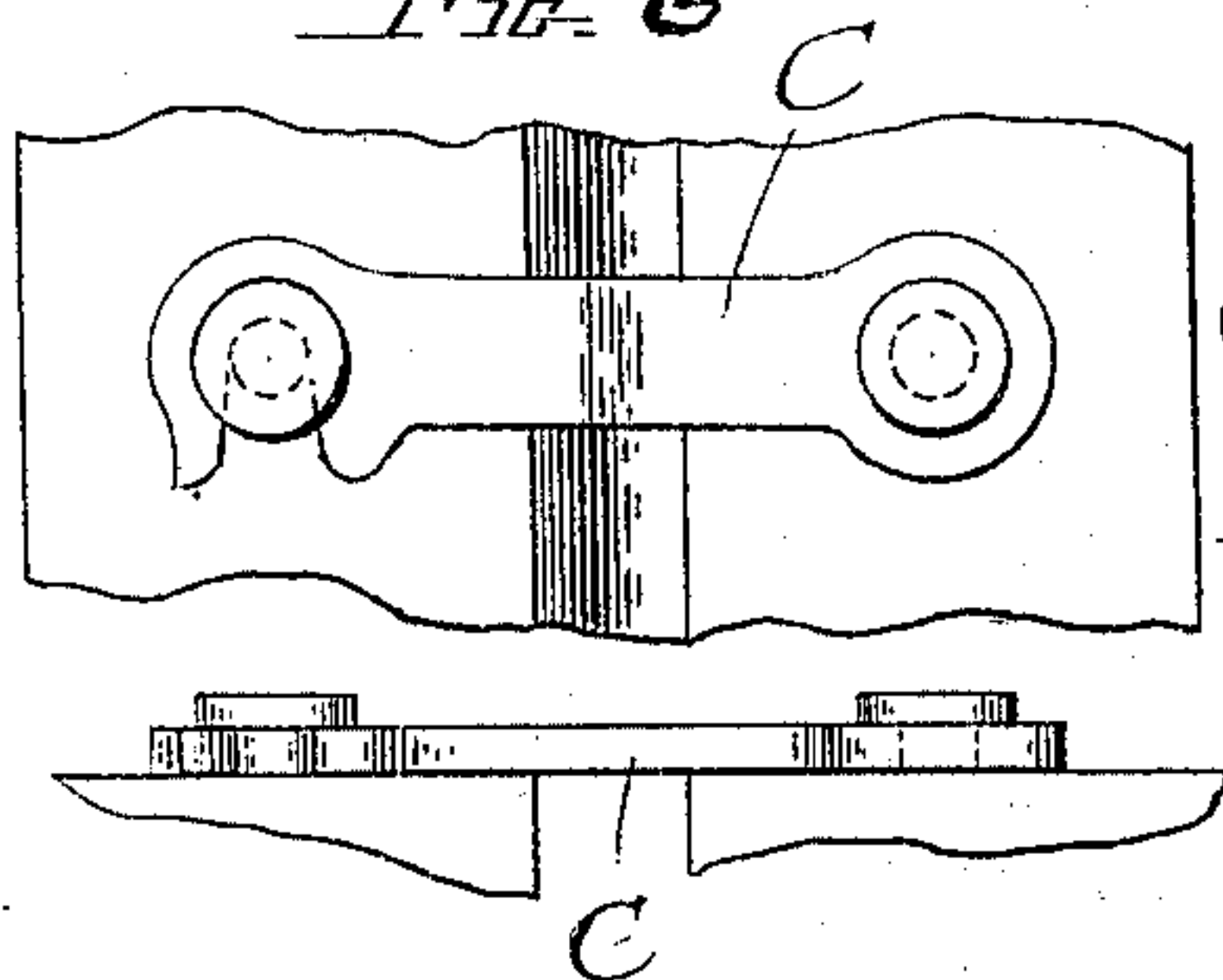


Fig. 6



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UNITED STATES PATENT OFFICE.

ABRAHAM RASNER, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO THE
RASNER & DINGER COMPANY, OF SAME PLACE.

WINDOW FRAME AND SASH.

SPECIFICATION forming part of Letters Patent No. 641,037, dated January 9, 1900.

Application filed April 4, 1899. Serial No. 711,663. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM RASNER, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Window Frames and Sashes; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification, in which—

Figure 1 indicates a front elevation of a window frame and sash embodying my invention. Fig. 2 is a vertical transverse section on line *xx* of Fig. 1. Fig. 3 is a horizontal transverse section on line *yy* of Figs. 2 and 5. Fig. 4 is an elevation of sash, the fireproof sections being at the top and bottom. Fig. 5 is an elevation of the same, both fireproof sections being at the top and the transparent section being at the bottom. Fig. 6 is a detail of fusible catch.

My invention relates to improvements in window frames and sashes.

The object of my invention is to produce a frame and sash adapted to minimize the danger of flame breaking through the glass and spreading in case of fire without too greatly curtailing the admission of light there-through; and to this purpose my invention consists in the novel construction and arrangement of parts hereinafter described, reference being had to the accompanying drawings, which form a part of this specification, in which like reference characters indicate similar parts wherever they occur throughout the several views.

Referring to the accompanying drawings, A is a metallic frame of any suitable construction adapted, however, to receive three sashes instead of two, as is the usual practice.

B, B, and B' are three sashes suitably seated in guides arranged in the outer sides of said frame in any suitable manner. The sashes B are provided with wire-glass—*i. e.*, glass having a metallic trellis embedded therein—or other translucent glass adapted to remain intact under the action of heat and water, and thus prevent the spread of flame from an adjacent building, and in case of fire occurring in the building in which said windows are located, to an adjacent building. The lower inner sash B' is provided with the ordinary

transparent sheet or plate of glass, so that the admission of light from without and view from within is in no wise interrupted or interfered with. By this arrangement of sashes a translucent screen may be formed by lowering both fire-retarding sashes and elevating the transparent sash.

In the practice of my invention the outer sash is normally held in the upper portion of the frame by the use of the usual counterweight. The middle sash is somewhat heavier than its counterweight, so that in the event of a fire upon the destruction of the fusible catch C it automatically descends and screens the inner sash, containing the transparent light of glass, from flame on the exterior and at the same time prevents the escape of flame in case the fire is going on in the interior of the building. This form of construction may be used; but both fireproof sashes may be counterweighted and the middle sash lowered in the usual way—as, for instance, when the occupants are leaving the building at night or whenever occasion arises.

I do not limit myself to the use of wire-glass, as small sheets or prisms may be used instead.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A window-frame provided with a plurality of window-sashes, two of which are provided with wire-glass or other translucent fire-retardant material, and one with ordinary transparent glass, the fire-retarding sashes being adapted to close or screen the window-opening, substantially as set forth.

2. In a window-frame, a plurality of window-sashes, two of which are provided with wire-glass or other translucent fire-retardant material, one of which is maintained in an elevated position by a fusible catch whereby the same is adapted to be lowered over the transparent sash in case of fire, substantially as set forth.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

ABRAHAM RASNER.

Witnesses:

CLARENCE A. WILLIAMS,
JOHN H. RONEY.