

A. CORBEILLE.

WINDOW.

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908,394.

Patented Dec. 29, 1908.

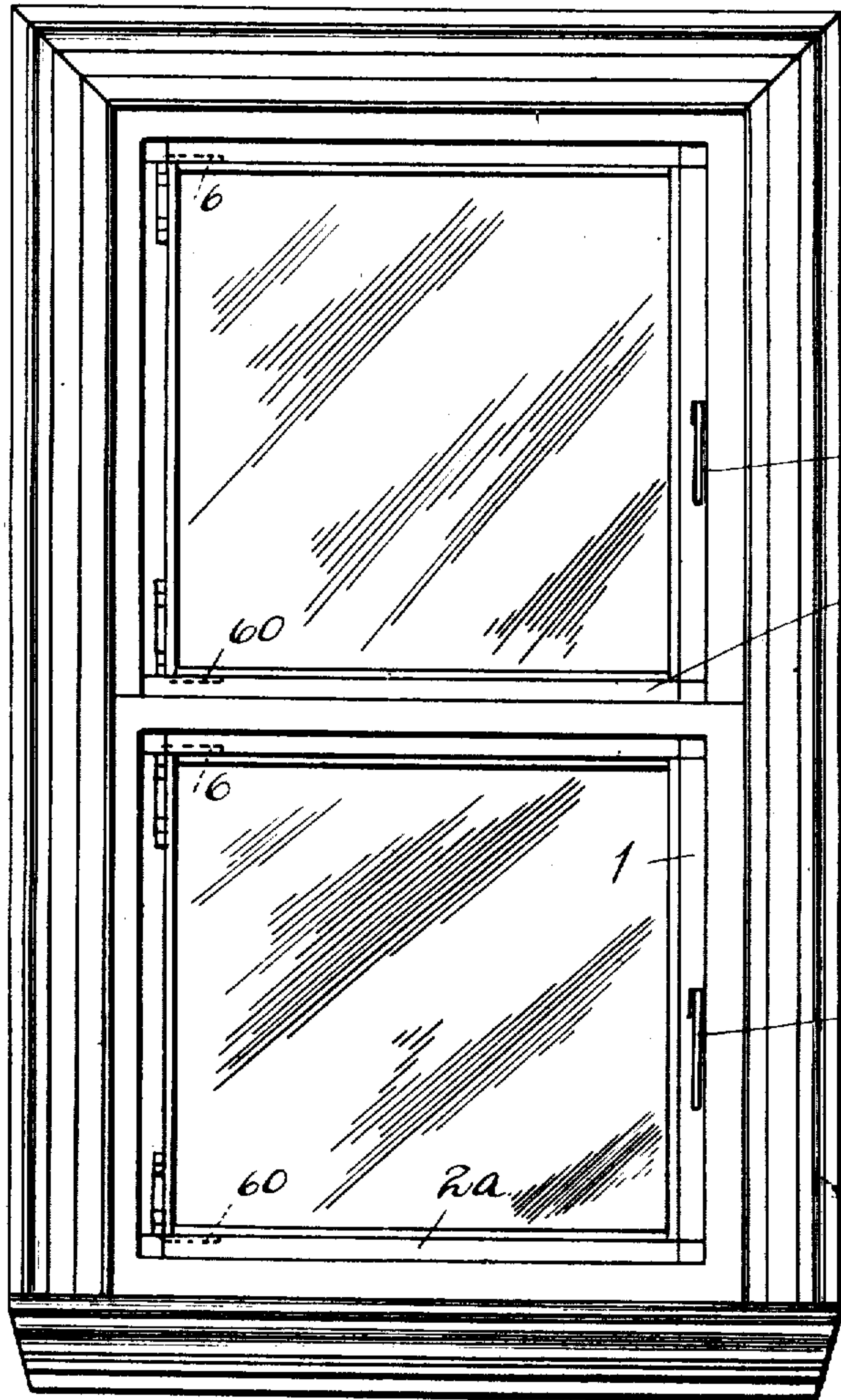


Fig. 1

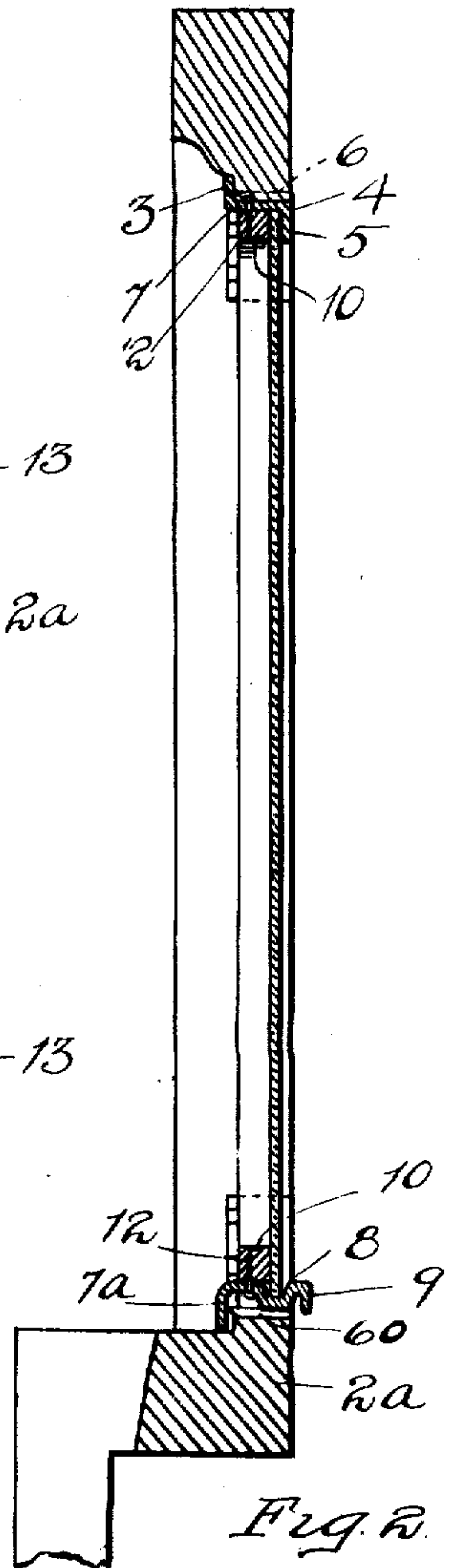


Fig. 2

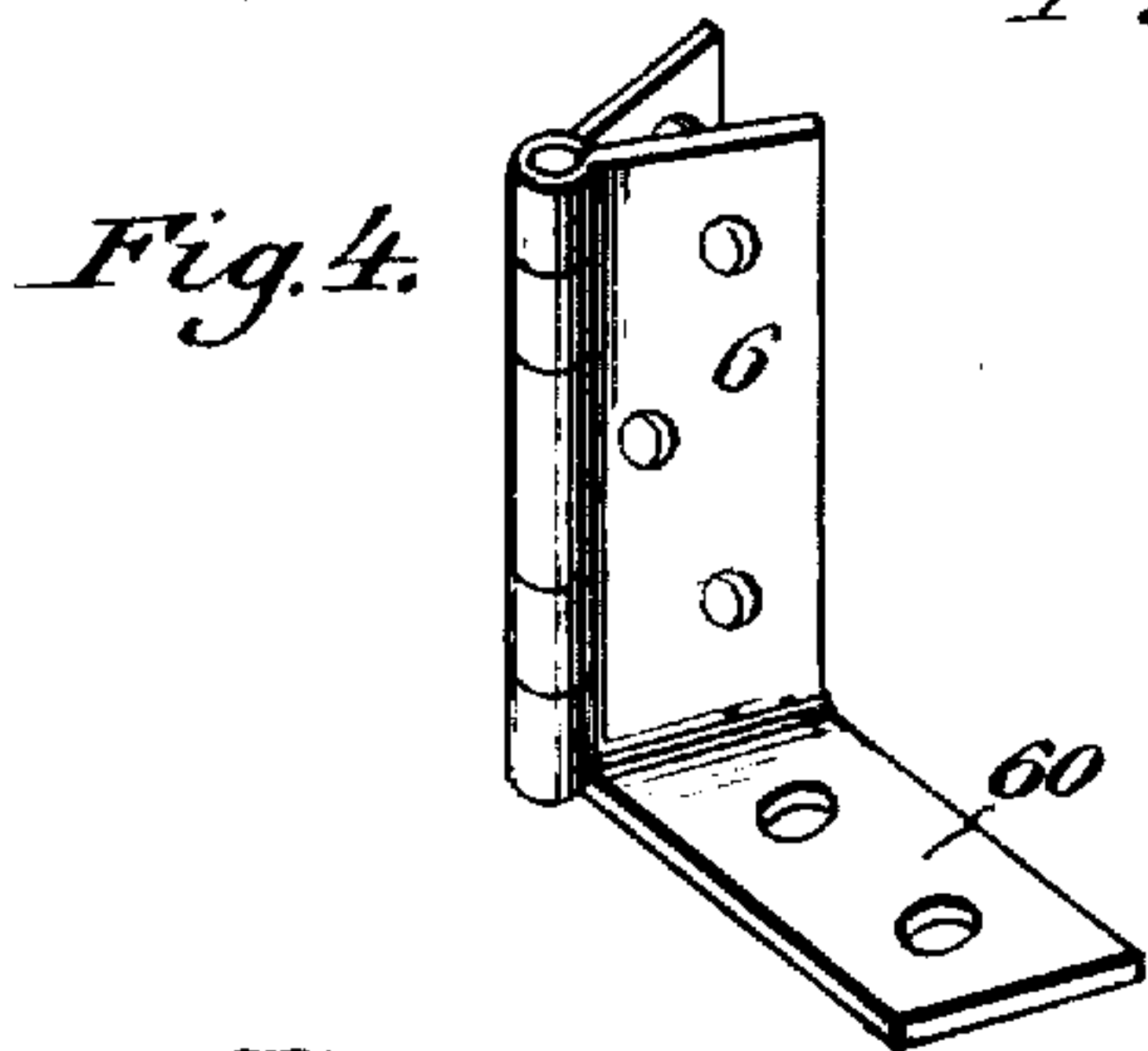


Fig. 4.

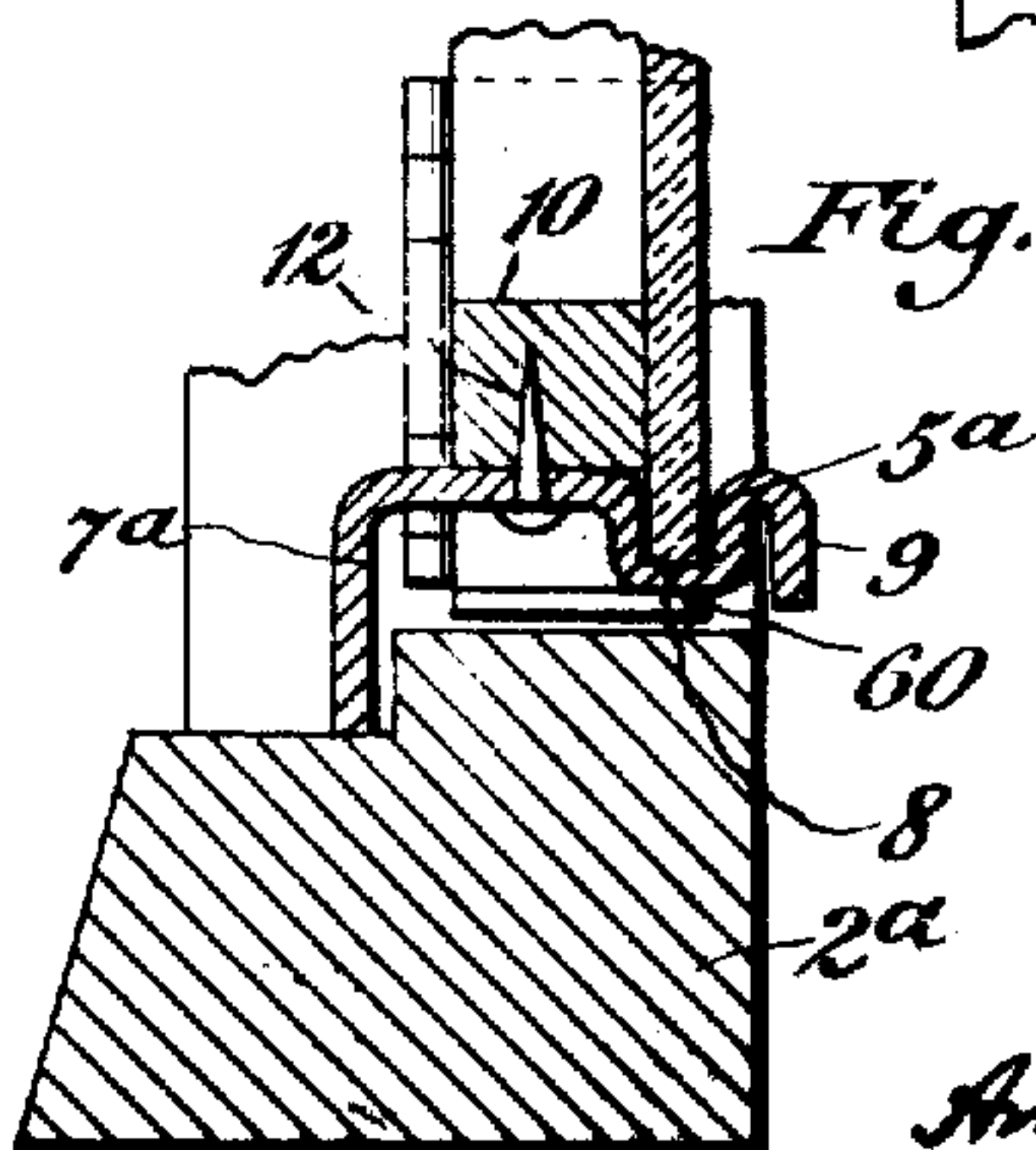


Fig. 3.

Witnesses  
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# UNITED STATES PATENT OFFICE.

ANTOINE CORBEILLE, OF DETROIT, MICHIGAN.

## WINDOW.

No. 908,394.

Specification of Letters Patent.

Patented Dec. 29, 1908.

Application filed April 6, 1908. Serial No. 425,323.

*To all whom it may concern:*

Be it known that I, ANTOINE CORBEILLE, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Windows, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to windows; it has for its object an improved window sash in which is contained a swinging hinged frame, which holds the glass. The main sash is made to slide vertically in the ordinary way in the frame of the window, while the inner frame, which is preferably made principally of metal, is hinged to the main frame, and the glass can be swung with the metal frame in which it is contained, so that both sides of it may be readily reached for cleaning purposes.

In the drawings:—Figure 1, is an elevation of a window frame containing a pair of sash. Fig. 2, is a vertical section of the upper half of the sash. A small portion of the lower sash is also shown. Fig. 3, is an enlarged section of the lower cross-bar and the parts immediately adjacent thereto. Fig. 4, is an enlarged view of the hinge.

The sash consists of stiles 1 and rails 2<sup>a</sup> of ordinary construction, except that instead of being fitted around the outside with a seat for the reception of a pane of glass, they are rabbeted on the inside with a rabbet 3 as a seat for a frame in which the glass is contained. The frame which contains the glass is made preferably with a metal rim 4 of Z-shaped metal, which extends as a rectangular frame entirely around the glass seated on the flange 5 of the frame. Butt hinges of peculiar construction hold the frame in place. These butt hinges are provided with a rectangular L-shaped leaf 6, the projection of which, extending at right angles to the main body of the leaf, engages against the web 7 of the metallic frame piece, thus utilizing the extension 6 of the hinge as a tension member at the upper corner of the sash, and the extension 60 as a thrust member at the lower corner of the sash. The lower cross bar of the metallic frame in which the glass is seated is grooved with a groove 8 to receive the lower edge of the glass and projects beyond the uprights of

the metallic frame with the projecting flange turned down to furnish a drip guard or rain guard 9, that swings closely over the upper edge of the wooden rail 2<sup>a</sup> of the wooden sash. The glass seated in the groove 8 and against the shoulder or vertical side 5<sup>a</sup> of the groove is held in place by light strips of wood 10, which are secured in place by tacks or small nails 12 driven into the wood through the web of the metal frame, and which effectually hold the wood in place without being perceptible to ordinary inspection. Nevertheless the wooden strips are easily removed if it be desirable for any purpose to remove the glass from the frame. The metal frame is secured in its closed condition with respect to the main sash by any suitable catch 13. The flange 7<sup>a</sup> of the lower bar engages against the seat on the rail 2<sup>a</sup>; the grooved web and drip flange 9 swings clear of the top surface of the rail and extends beyond the rail, so that any water which runs down the glass is carried clear of the sash; the glass is set against a putty cushion which, however, does not of itself secure the glass in place, and is not exposed to the weather.

What I claim is:—

1. In combination with a sliding window sash, an independent glass-containing frame rabbeted therinto, said frame comprising vertical bars and an upper cross-rail made from Z-shaped strips of metal, and a lower cross rail of greater breadth as regards its extent from one face of the sash toward the other, one edge being formed as a drip guard and the other edge being bent over into a position of parallelism to the plane of the sash as a whole and engaging against the adjacent portion thereof, substantially as described.

2. In combination with a sliding sash in a window, an independent glass containing frame made from Z-shaped strips of metal, comprising the vertical bars and the upper cross rail of the metal frame, a grooved rail provided with a drip guard 9 comprising the lower cross rail, and hinges provided with a tension connection at the upper corner and a thrust connection at the lower corner, substantially as described.

In testimony whereof, I sign this specification in the presence of two witnesses.

ANTOINE CORBEILLE.

Witnesses:

CHARLES F. BURTON,  
VIRGINIA C. SPRATT.