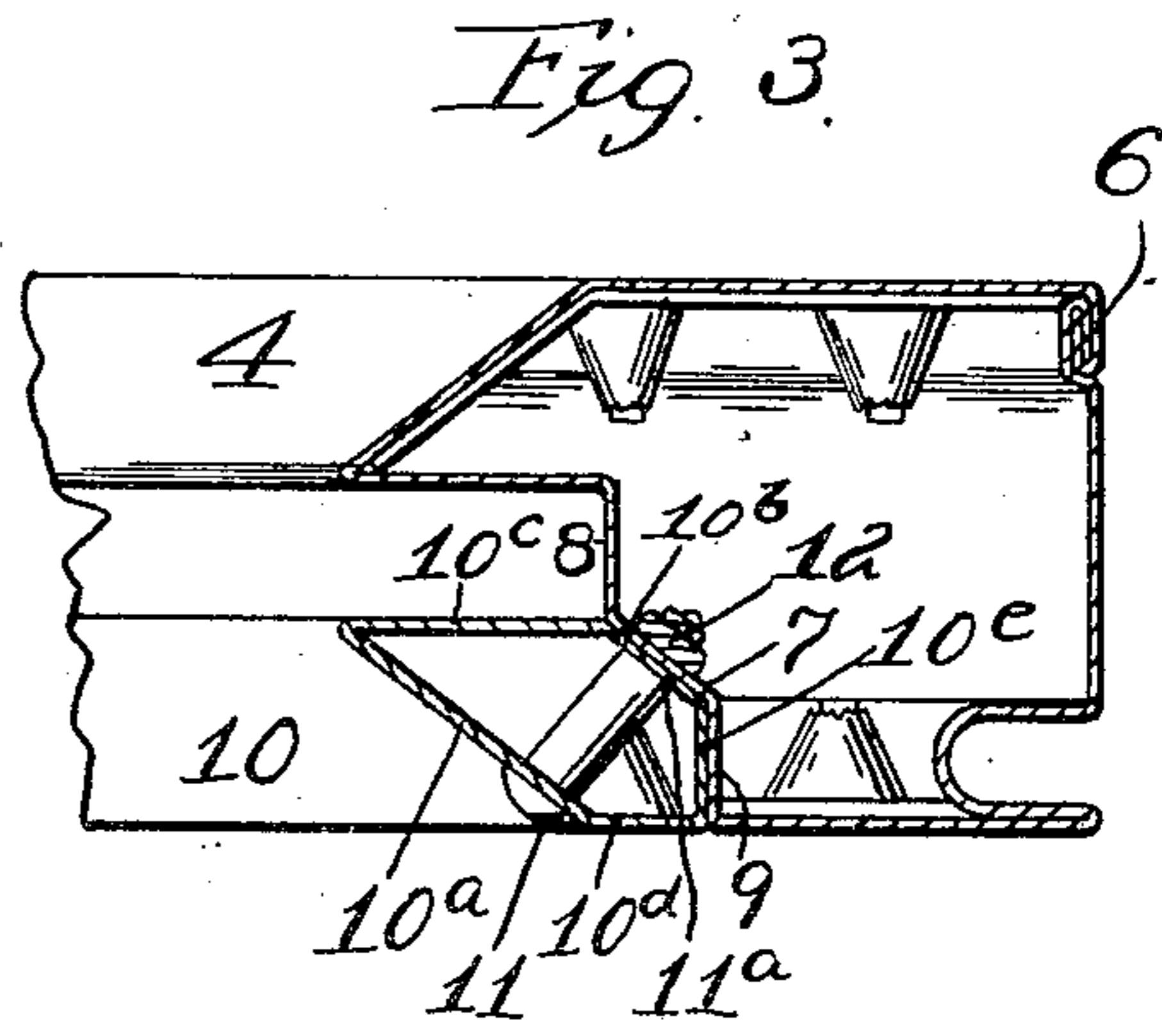
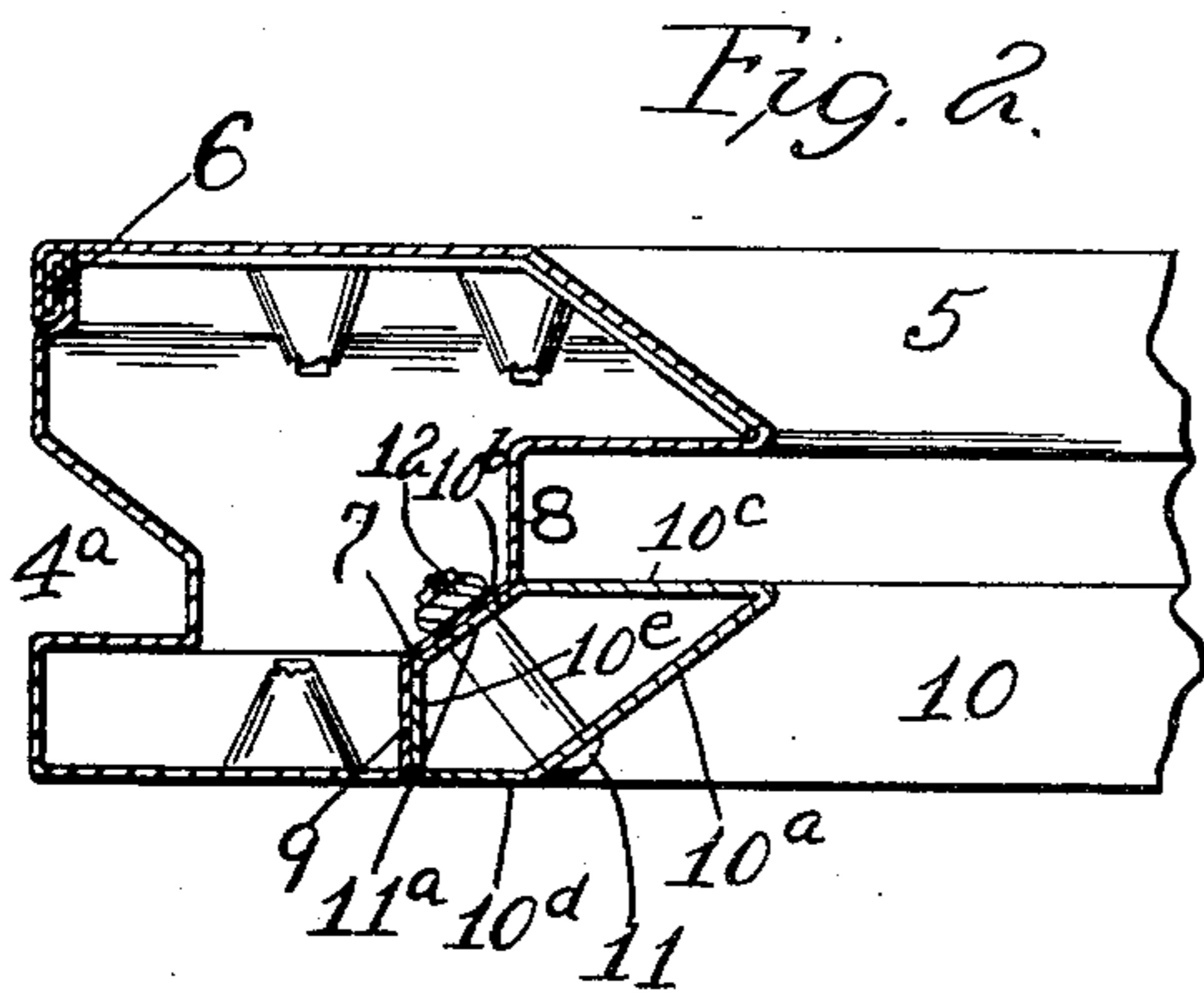
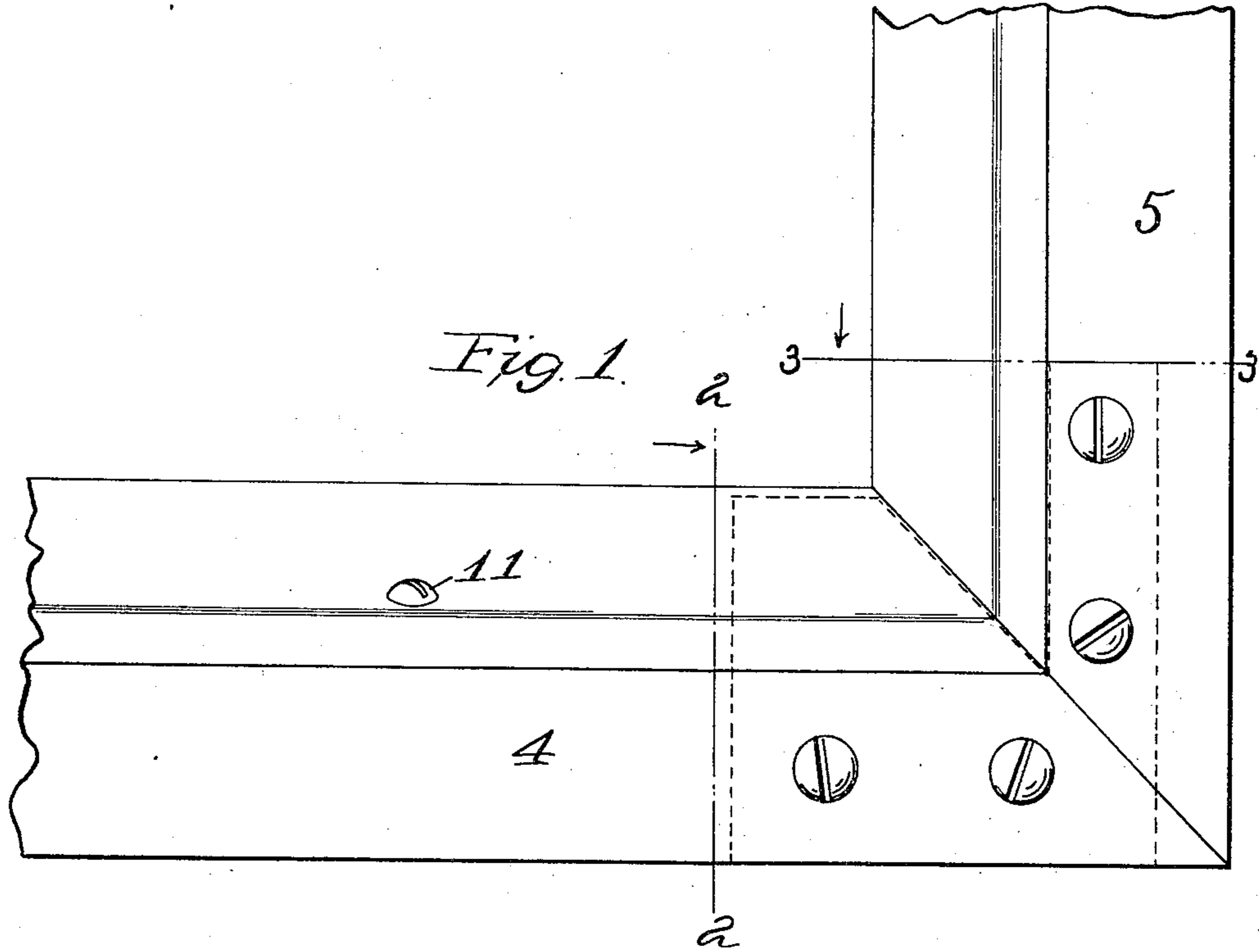


W. SCHMIDT.
 METALLIC WINDOW SASH.
 APPLICATION FILED OCT. 6, 1910.

999,193.

Patented July 25, 1911.



Attest.
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 E. W. Middleton

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UNITED STATES PATENT OFFICE.

WILLIAM SCHMIDT, OF CINCINNATI, OHIO, ASSIGNOR TO THE LUNKENHEIMER CO., OF CINCINNATI, OHIO.

METALLIC WINDOW-SASH.

999,193.

Specification of Letters Patent. Patented July 25, 1911.

Original application filed July 25, 1910, Serial No. 573,807. Divided and this application filed October 6, 1910. Serial No. 585,708.

To all whom it may concern:

Be it known that I, WILLIAM SCHMIDT, a citizen of the United States, residing at Cincinnati, Ohio, have invented certain new and useful Improvements in Metallic Window-Sash, of which the following is a specification.

My present invention relates to improvements in metallic window construction, being a division of an application filed by me on the 25th day of July, 1910, #573,807, and has for its object to provide a simple, economical and efficient manner of removably securing the pane in place, and the invention comprises the novel features of construction hereinafter described and particularly pointed out in the appended claims.

A sash constructed in accordance with my invention is illustrated in the accompanying drawings, in which:

Figure 1 is a front view of a sufficient portion of a sash to illustrate the invention; Fig. 2 is a sectional view on line 2—2, and Fig. 3 is a section on line 3—3.

In this drawing, the numeral 4 designates the lower rail or bar of the sash, and 5 one of the side bars or rails. These are formed each of a single piece of sheet metal bent into the shape shown, and with the edges folded or interlocked, as shown at 6. They are of identical shape in cross section except on their outer faces, where they are shaped to conform to the portion of the frame with which they co-act, the bottom rail 4 having a groove 4^a adapted to co-act with a suitably shaped sill member to produce a weatherproof joint, and the side rail 5 having a groove or channel adapted to co-act with the guiding rib of the side of the window frame for guiding the sash in its vertical movement.

In order that the glass may be readily, firmly and yet removably held in place, each sash bar is provided with an inclined portion 7 extending from the seat 8 for the edge of the glass to a transverse shoulder 9, and against this portion 7 and shoulder 9 rests a hollow removable securing strip 10 which

has opposite parallel walls 10^a and 10^b, other parallel walls 10^c and 10^d and a wall 10^e perpendicular to the wall 10^d, the wall 10^c being adapted to retain the glass and the walls 10^b and 10^e to coact with the seats 7 and 9. The strip 10 is secured in place by set screws 11 which pass through the hollow securing strip 10 and the portion 7 and engaging a bar 12 having suitable threaded openings for the screws and riveted to the inner face of the said inclined portion 7.

In order to enable the screws to be screwed in tightly to hold the securing strip firmly in place without danger of crushing or distorting the securing strip, the body of each screw is made larger than the threaded portion which provides a shoulder 11^a for bearing against the inner inclined wall of the securing strip when the screw is screwed home.

Having thus described my invention what I claim is:

1. A hollow sash bar having a permanent glass holding flange and seat, and an inclined portion adjacent said seat, and a hollow securing strip having a correspondingly inclined portion, and securing screws passing through said hollow strip, said screws having shoulders for bearing against said inclined portion, substantially as described.

2. A hollow sash bar having a permanent glass holding flange and seat and an inclined portion adjacent said seat, a hollow securing strip having a correspondingly inclined portion, securing screws passing through said hollow strip, said screws having shoulders for bearing against said inclined portion, and a reinforcing bar secured to the inner face of said inclined portion of the sash bar with which the ends of said screws engage, substantially as described.

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

WILLIAM SCHMIDT.

Witnesses:

ERNST H. KORTE,
E. E. WINTER.