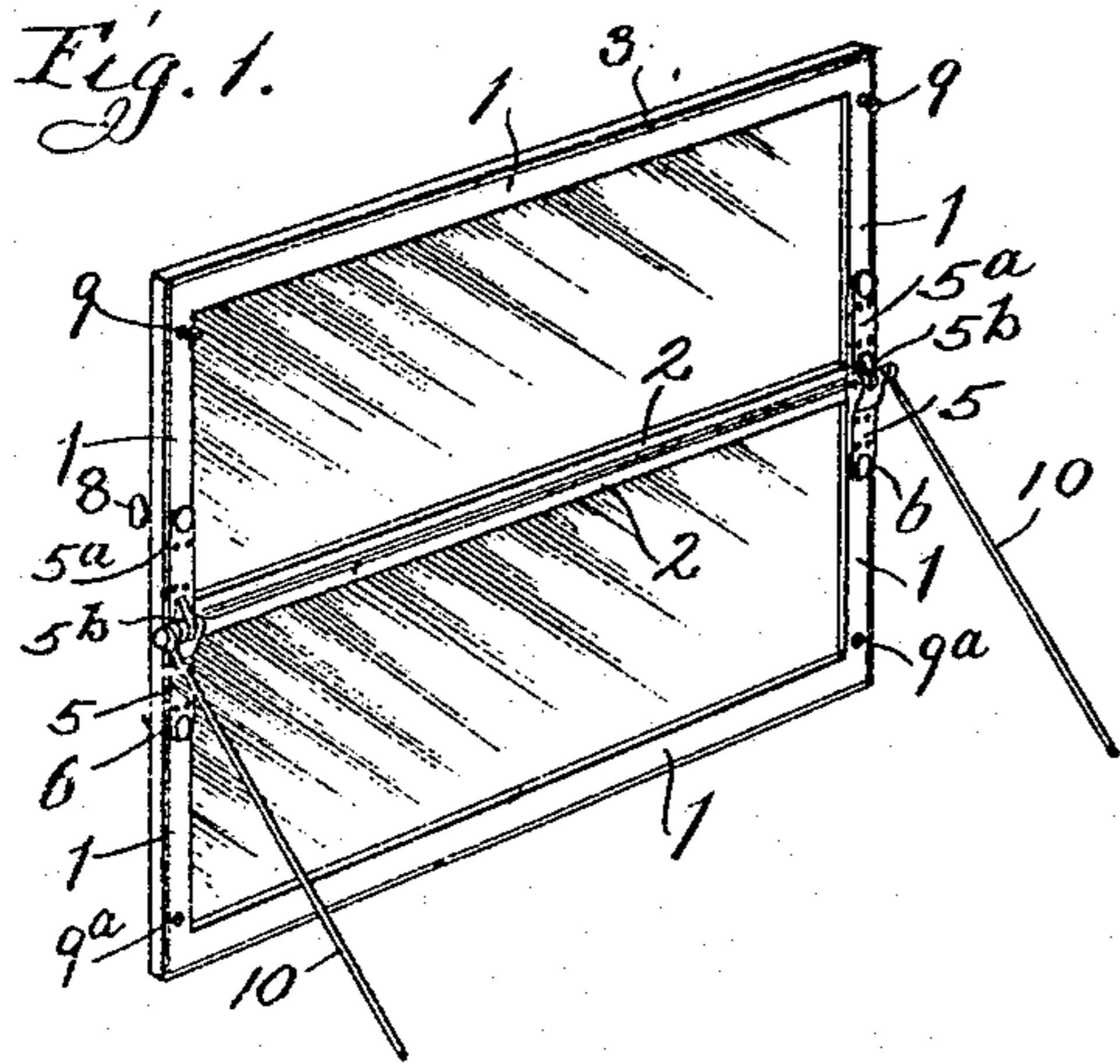


No. 835,250.

PATENTED NOV. 6, 1906.

A. P. OLSON.  
BRACE BAR FOR FOLDING FRAMES.  
APPLICATION FILED MAY 14, 1906.

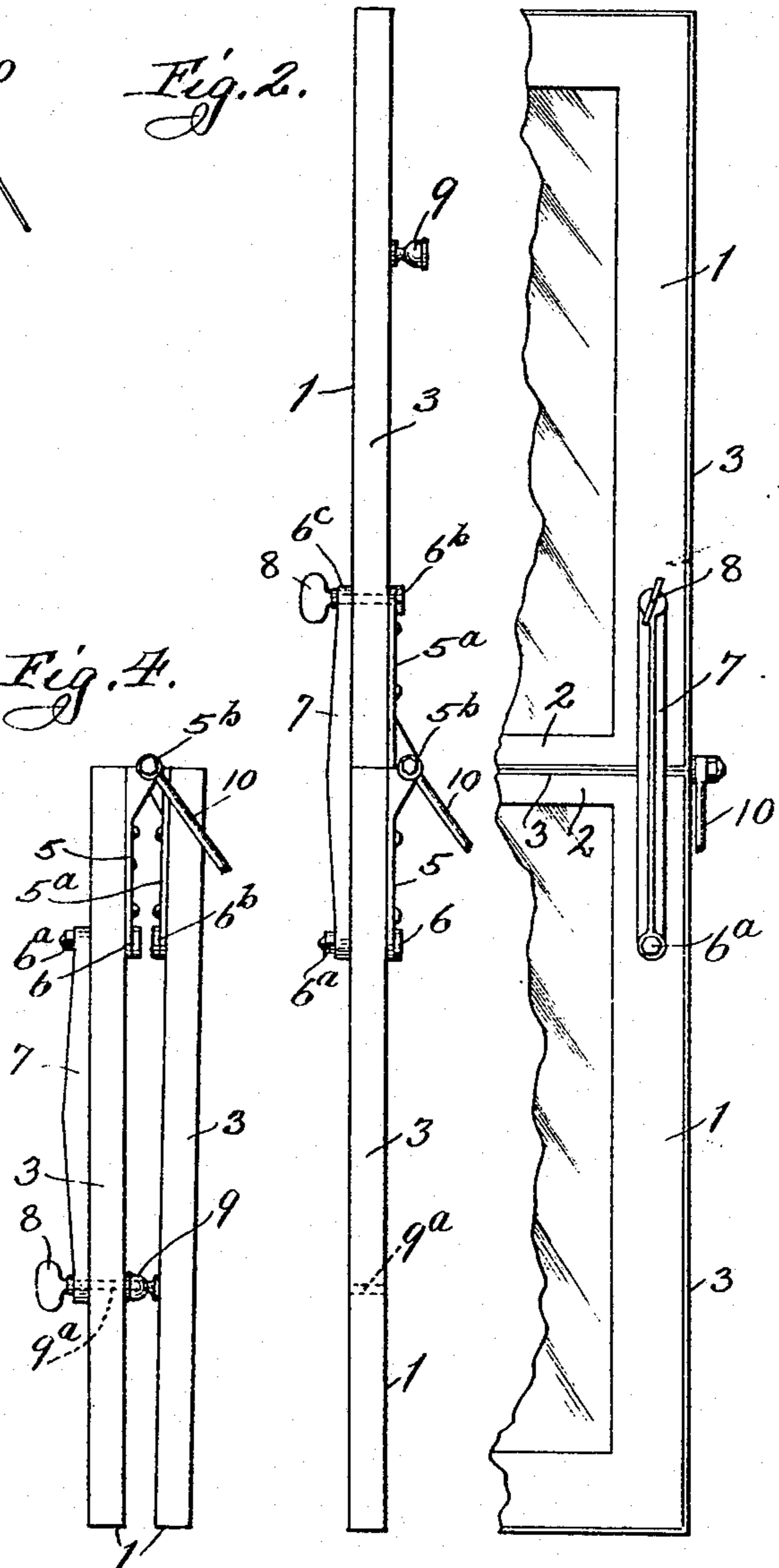
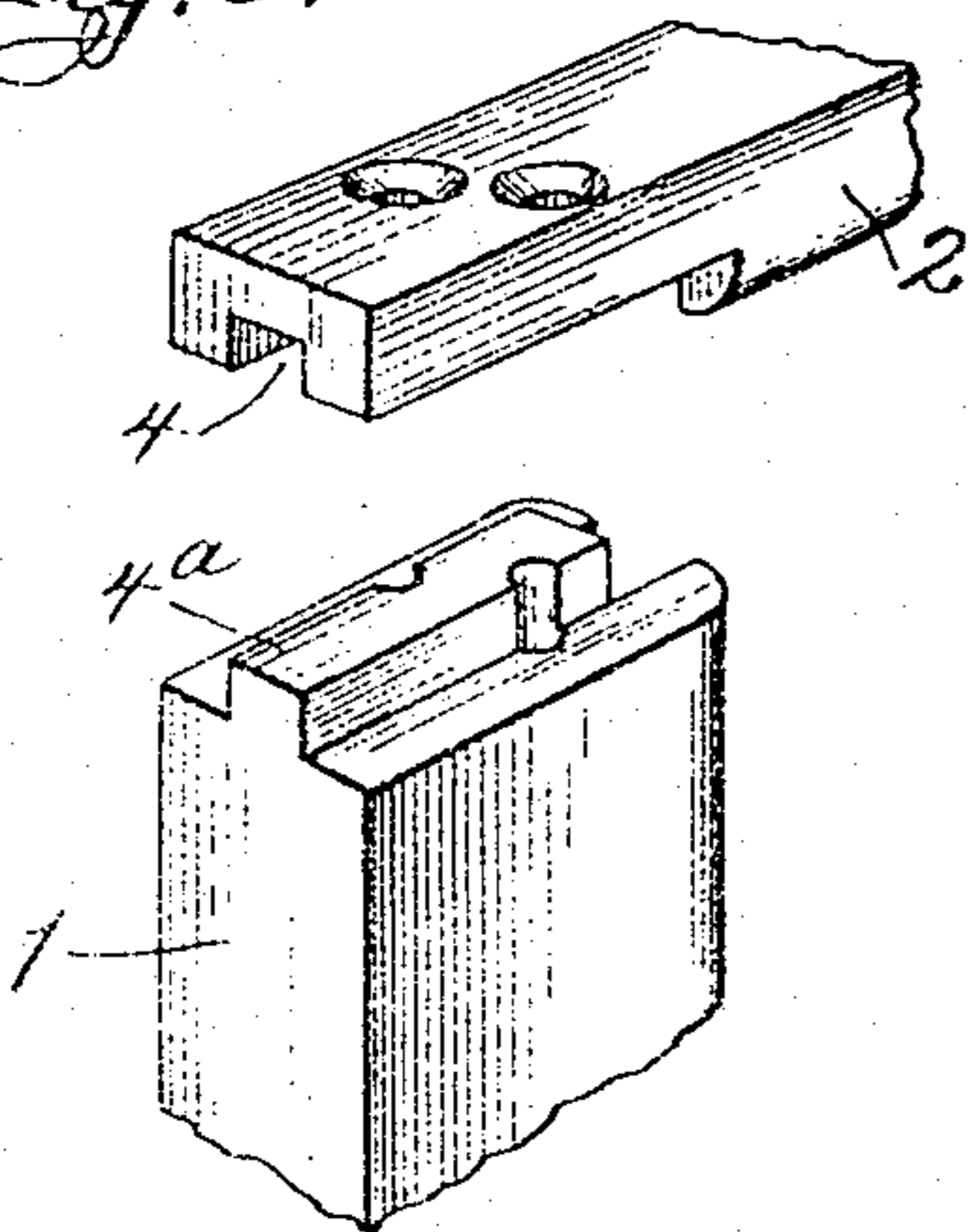


*Fig. 2.*

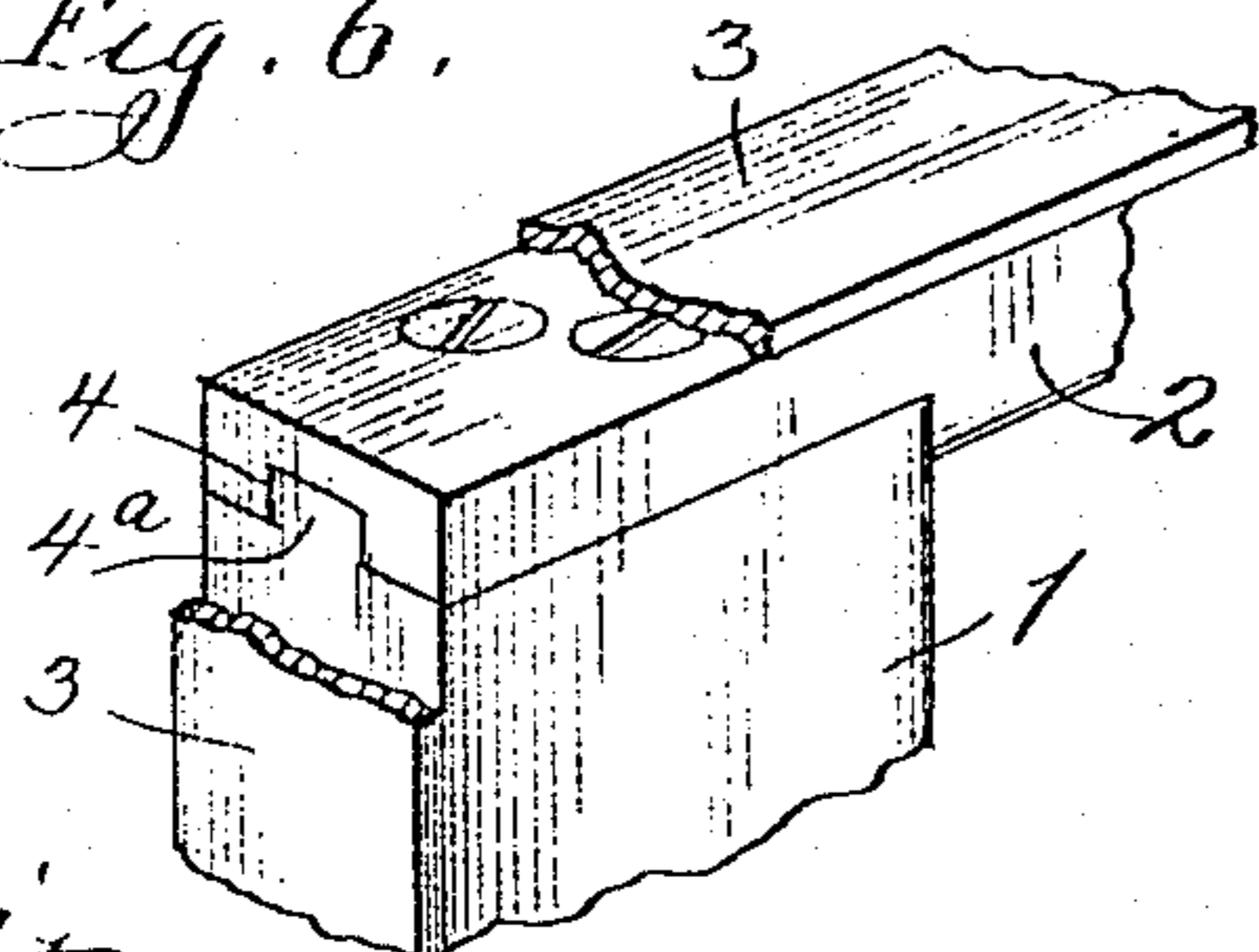
*Fig. 3.*

*Fig. 5.*

*Fig. 4.*



*Fig. 6.*



Witnesses:

R. J. Jaeger  
O. E. Adams.

Inventor:

Andrew P. Olson  
By J. W. Whipple

Atty.

# UNITED STATES PATENT OFFICE.

ANDREW P. OLSON, OF CHICAGO, ILLINOIS.

## BRACE-BAR FOR FOLDING FRAMES.

No. 835,250.

Specification of Letters Patent.

Patented Nov. 6, 1906.

Application filed May 14, 1906. Serial No. 316,862.

*To all whom it may concern:*

Be it known that I, ANDREW P. OLSON, of Chicago, in the State of Illinois, have invented certain new and useful Improvements in Hinges and Brace-Bars for Folding Frames, of which the following is a specification.

The invention relates to hinges provided with a brace-bar for connecting folding frames for transparent wind-shields for automobiles and the like; and the object of the improvements is to provide a frame composed of a lower and an upper member with a hinge and pivoted brace-bar adapted to support the upper member and allow it to be extended or folded upon the lower member, which is assumed to be stationarily mounted upon the vehicle.

I have attained this object in the frame with hinge and brace-bar constructed as illustrated in the accompanying drawings, in which—

Figure 1 is an elevation in perspective of a structure embodying the invention. Fig. 2 is an elevation showing an edge view of the frame extended. Fig. 3 is an elevation showing that side of the frame to which the hinge brace-bar is applied, the frame being extended. Fig. 4 is an elevation showing the edge of the frame folded. Fig. 5 is a detail showing in perspective a fragment of parts of the frame structure at the hinge junction in apposition. Fig. 6 is a detail showing the same parts as seen in Fig. 5 and an additional part in conjunction.

In the drawings the numeral 1 designates the outer members of the frame, and 2 the meeting members, which are made of wood and bound on the outer edge with a metallic strip 3. The inner edge is provided with a groove, into which the glass may be slid previous to the application of the meeting members. A groove 4 of the meeting member fits upon a tongue 4<sup>a</sup> of the outer member and is held by means of a screw, as seen in Figs. 5, 6.

The hinge and brace-bar as applied to the frame are plainly shown in Figs. 1, 2, 3, and 4 of the drawings. The hinge comprises leaves 5 5<sup>a</sup>, having the knuckle at 5<sup>b</sup>. The part 5 is provided with a pin at 6, which is of the requisite length to extend through the frame-piece 1 and receive the perforated end of the brace-bar 7, which is secured on the pin by means of a nut 6<sup>a</sup>, so as to turn on the

pin. The part 5<sup>a</sup> is provided with a threaded perforation at 6<sup>b</sup>, which corresponds in position with a perforation through the frame-piece, and the opposite end of the brace-bar has a like perforation at 6<sup>c</sup>, in which a thumb-screw 8 is applied to clamp the brace-bar against the opposite side of the frame-piece from the hinge when the frame is extended, as seen in Fig. 2.

The upper or folding member of the frame is provided with projecting nuts 9, which when the frame is turned down strike the lower member, as seen in Fig. 4, at a perforation in the frame, through which the thumb-screw can be applied for holding the turned-down brace-bar and upper member of the frame steady.

When the frame is extended, the brace-bar lies counter to the leaves of the hinge and is clamped to the frame-piece across the folding joint, so as to cooperate with the hinge in forming a rigid support adapted to sustain the upper member of the frame against the air-pressure produced thereon by the movement of the vehicle.

Braces 10, connected with the hinge-pin at the top and with the vehicle-frame at the bottom, serve to support the lower member of the frame upon the vehicle.

What I claim is—

1. The hinge comprising pivoted leaves, one of the leaves having a projecting pin and the other a threaded opening, in combination with a brace-bar pivoted at one end to the projecting pin of the hinge-leaf and having a perforation at the opposite end for a thumb-screw, as specified.

2. The combination with the folding frame having opposite members each provided with a perforation, of a hinge having one member provided with a threaded perforation and the other with a projecting pin adapted to the perforations of the frame; a brace-bar pivoted at one end to said projecting pin and provided with a perforation at the opposite end, and a thumb-screw fitted to the perforation of the brace-bar and adapted to engage the threaded perforation of the hinge, as specified.

3. The combination with the folding frame having opposite members respectively, provided with perforations and one member having a projecting nut, of a hinge provided

with a threaded perforation and a pin, a  
brace-bar pivoted to the pin, and provided  
with a perforation adapted to turn into reg-  
istration with the perforations of the frame  
5 members when extended or folded, and a  
thumb-screw fitted to the perforation of the  
brace-bar and adapted to engage the thread-

ed perforation of the hinge or the projecting  
nut, as specified.

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