

No. 765,810.

PATENTED JULY 26, 1904.

H. E. BROWN.
WINDOW.

APPLICATION FILED MAR. 18, 1904.

NO MODEL.

2 SHEETS—SHEET 1.

Fig. 1.

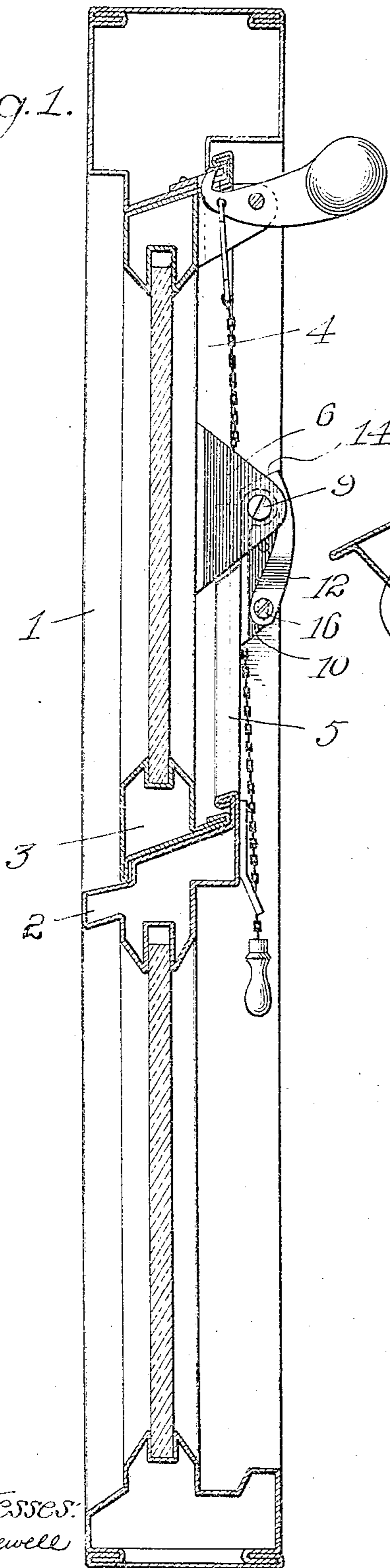
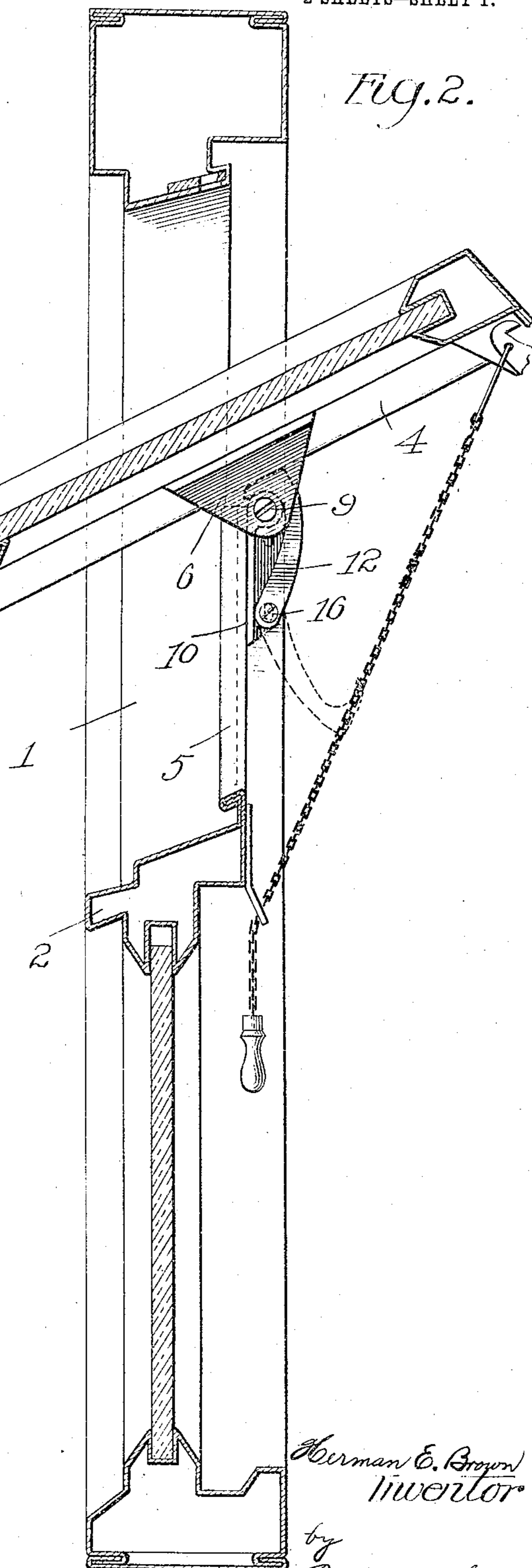


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

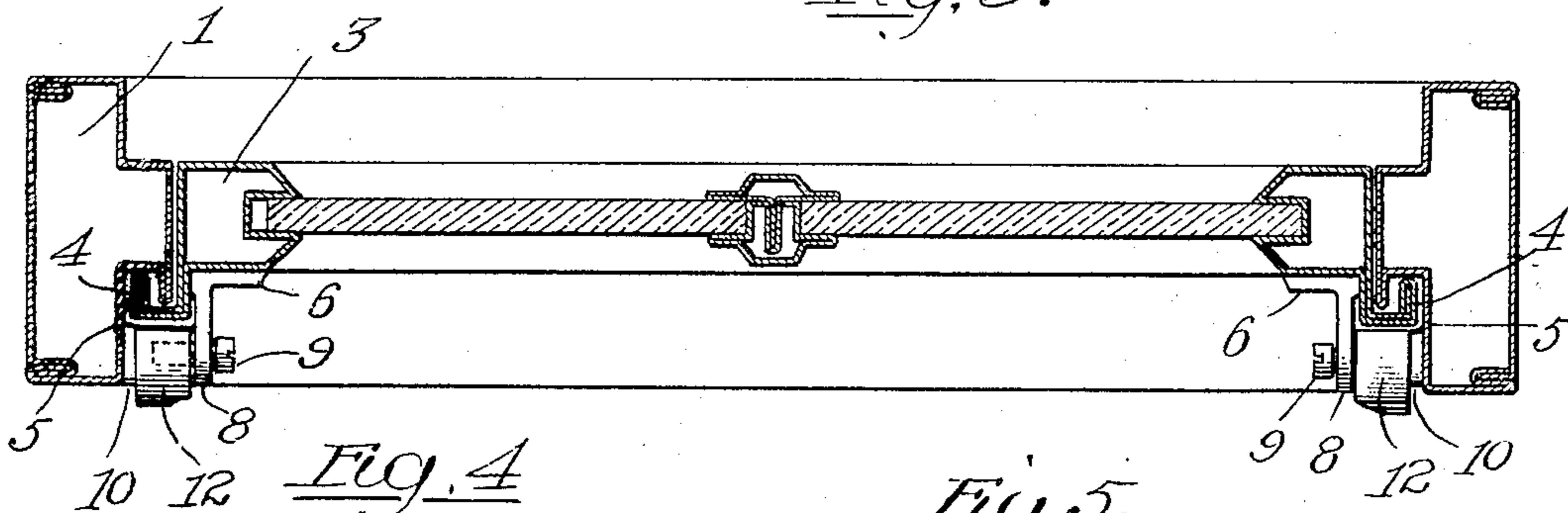


Fig. 4.

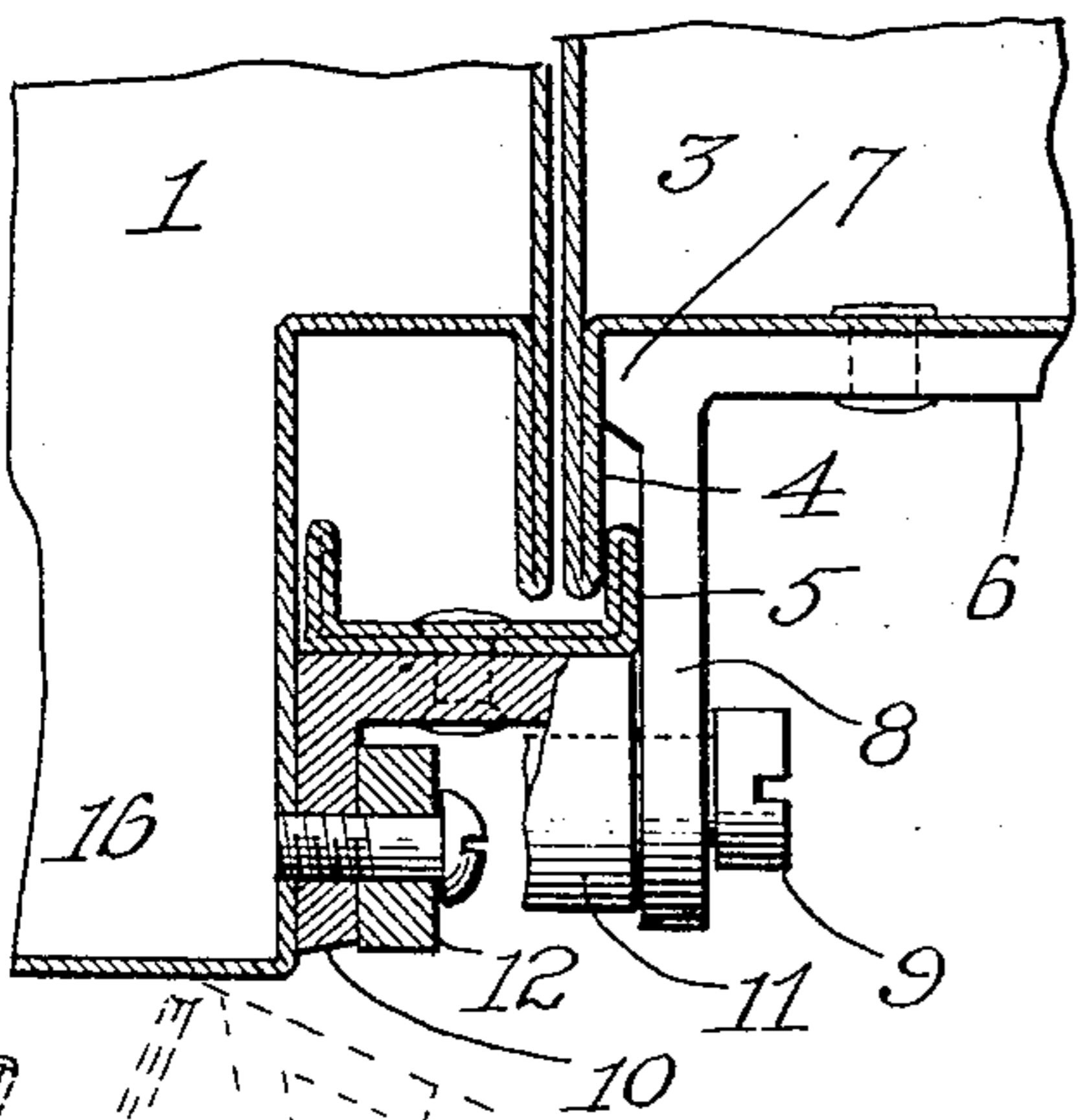


Fig. 5.

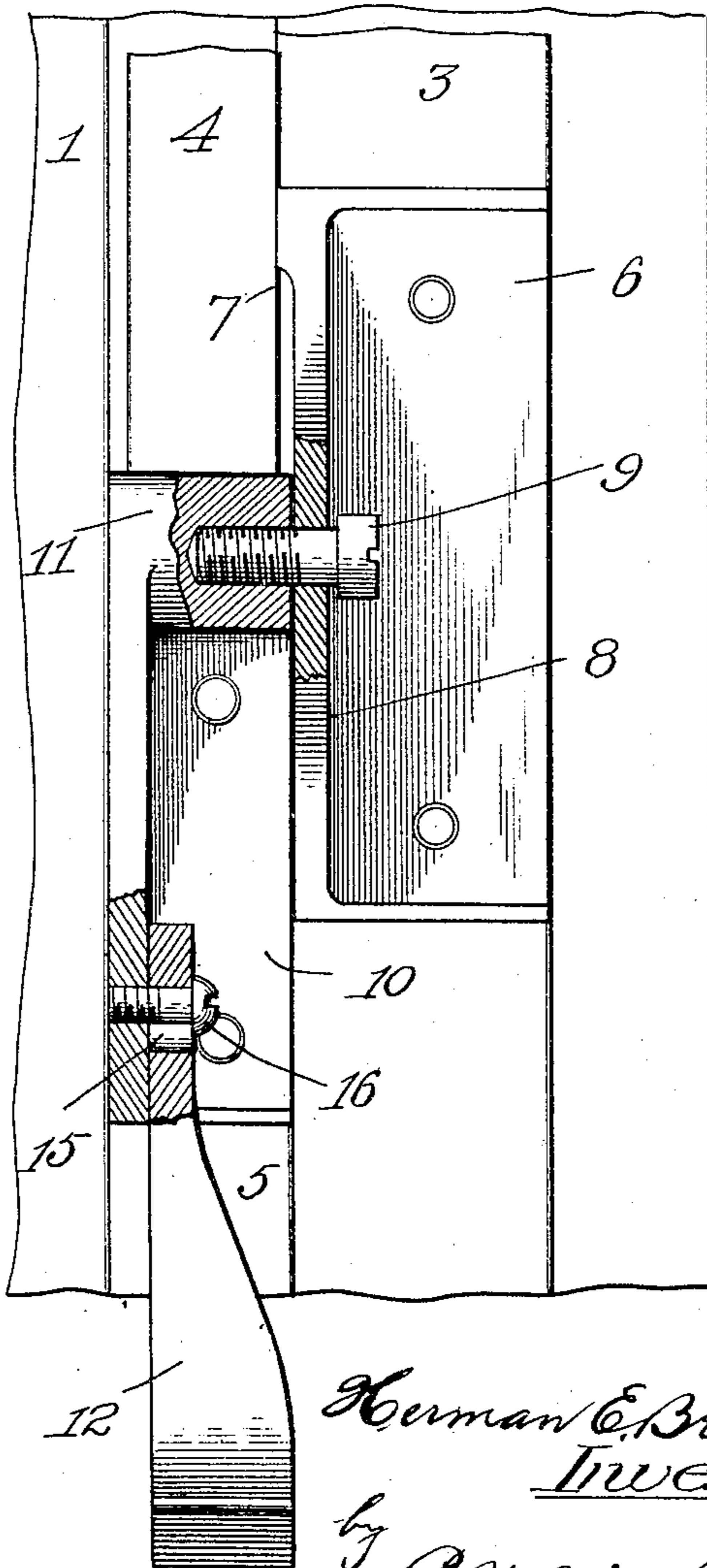
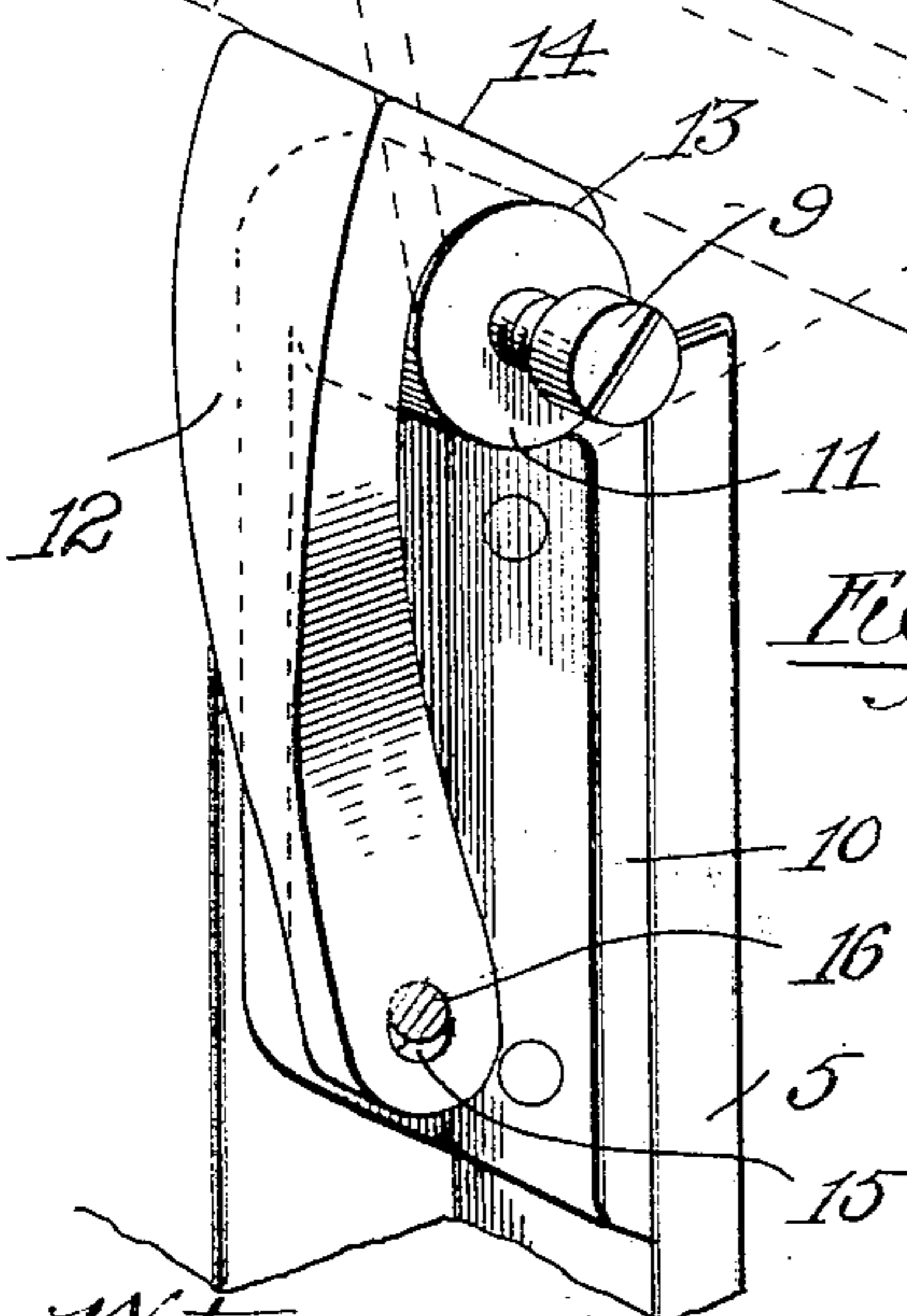


Fig. 6.



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UNITED STATES PATENT OFFICE.

HERMAN E. BROWN, OF CHICAGO, ILLINOIS.

WINDOW.

SPECIFICATION forming part of Letters Patent No. 765,810, dated July 26, 1904.

Application filed March 18, 1904. Serial No. 198,764. (No model.)

To all whom it may concern:

Be it known that I, HERMAN E. BROWN, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Windows, of which the following is such a full, clear, and exact description as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming a part hereof.

This invention relates to windows of the type shown in Letters Patent No. 753,665, granted to me March 1, 1904, and has special reference to the means for pivoting the upper sash.

The object of the present invention is to provide a construction whereby a weatherproof joint will be provided at the pivotal point and means whereby the sash may be supported in its open position and may also be swung into a reversed position for cleaning. This object is attained by the use of the devices illustrated in the accompanying drawings; and the invention consists in certain novel features of such devices, as will be hereinafter first fully described and then particularly pointed out in the claims.

In the said drawings, Figure 1 is a vertical section of a window embodying the invention. Fig. 2 is a similar view showing the upper sash supported in an open position. Fig. 3 is a horizontal section of the window, showing the pivots in plan view. Fig. 4 is a detail view, on a larger scale, showing the parts of the pivot, partly in plan view and partly in horizontal section. Fig. 5 is a front elevation with parts broken away, and Fig. 6 is a perspective view of the pivot.

The window-frame 1 and the sashes 2 3 are constructed of sheet-metal tubing, as set forth in my aforesaid Letters Patent, and as pointed out in the said patent the sash and frame are provided with interlocking weatherproof joint-flanges 4 and 5, the meeting-line of which is directly back of the center of the pivot-bolt.

In carrying out my present invention I rivet to the front face of the sash a bracket 6, consisting of a casting having two arms at right

angles to each other, the arm projecting from the sash having a slight rib 7 on its outer side adapted to fit against the flange on the sash back of the flange on the frame, so as to increase the weatherproof qualities of the joint around the pivot. In this outstanding arm 8 is formed an opening, through which the pivot-bolt 9 is passed. Riveted or otherwise secured to the front face of the flange 5 of the frame is a socket or base-bracket 10, consisting of a casting having two arms at right angles to each other and having an integral socket 11 at its upper end adapted to receive the pivot-bolt 9, as clearly shown and as will be readily understood. Pivotaly attached to or hung upon the lower end of the outstanding arm of the bracket 10 is a stop or rest 12, which is adapted to extend up to and project over the cylindrical socket, as clearly shown in Figs. 1, 2, and 6, the upper end of the stop or rest being slightly hook-shaped, as at 13, so as to engage the said socket, and having its outer surface forming a smooth inclined plane, as at 14, adapted to support the sash. This rest is provided with a slot 15 at its lower end through which the pivot or retaining screw or pin 16 passes to secure it to the bracket 10. This arrangement permits the stop to be lifted slightly, so that the hooked end 13 may clear the socket 11 and the stop dropped into the position shown in dotted lines in Fig. 2. The sash may be swung down so as to bring the outer side of the glass into the room for cleaning.

It is thought the invention will be readily appreciated from the foregoing description, taken in connection with the accompanying drawings.

The device is very simple in construction and arrangement of parts and may be easily and accurately applied to the window. The several parts interlock or overlap, so as to form thoroughly weatherproof joints around the pivot, and the stop forms a firm support to hold the upper sash in an open position without causing any strain on the pivot or any tendency of the frame or the sash to buckle.

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

1. The combination with the tubular frame and the tubular sash having interlocking flanges, of a bracket consisting of an arm secured to the face of the sash and a second arm projecting perpendicularly from the first-mentioned arm, the said second arm having a rib on its outer side fitting between the face of the sash and the edge of the flange on the frame, a bracket fitting in the angle formed by the frame and its flange and secured to the said frame and flange, the said bracket having a socket formed integral with its upper end, and a pivot-pin inserted through the outstanding arm of the bracket on the sash and engaging and held by the said socket on the bracket on the frame.

2. The combination with the frame and the sash, of brackets secured thereon and pivotally connected, and a stop hung on the bracket on the frame and adapted to extend over the pivot to support the sash in an open position.

3. The combination with the frame and the sash, of brackets secured thereon and having a pivotal connection, and a stop or rest hung on the bracket on the frame and having its upper extremity formed into an inclined plane.

4. The combination with the frame and the sash, of brackets secured thereto and pivotally connected, a pin at the lower end of the bracket on the frame, and a stop or rest having a slot in its lower end engaging said pin and having its upper end adapted to support the sash and slightly hooked to engage over the upper end of the bracket.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

HERMAN E. BROWN.

Witnesses:

OTTO M. HOMUTH,
JOHN SCHWARTZ.