

No. 654,129.

Patented July 24, 1900.

D. R. BROWN.
WINDOW FRAME.

(Application filed Apr. 25, 1900.)

(No Model.)

2 Sheets—Sheet 1.

FIG. 1

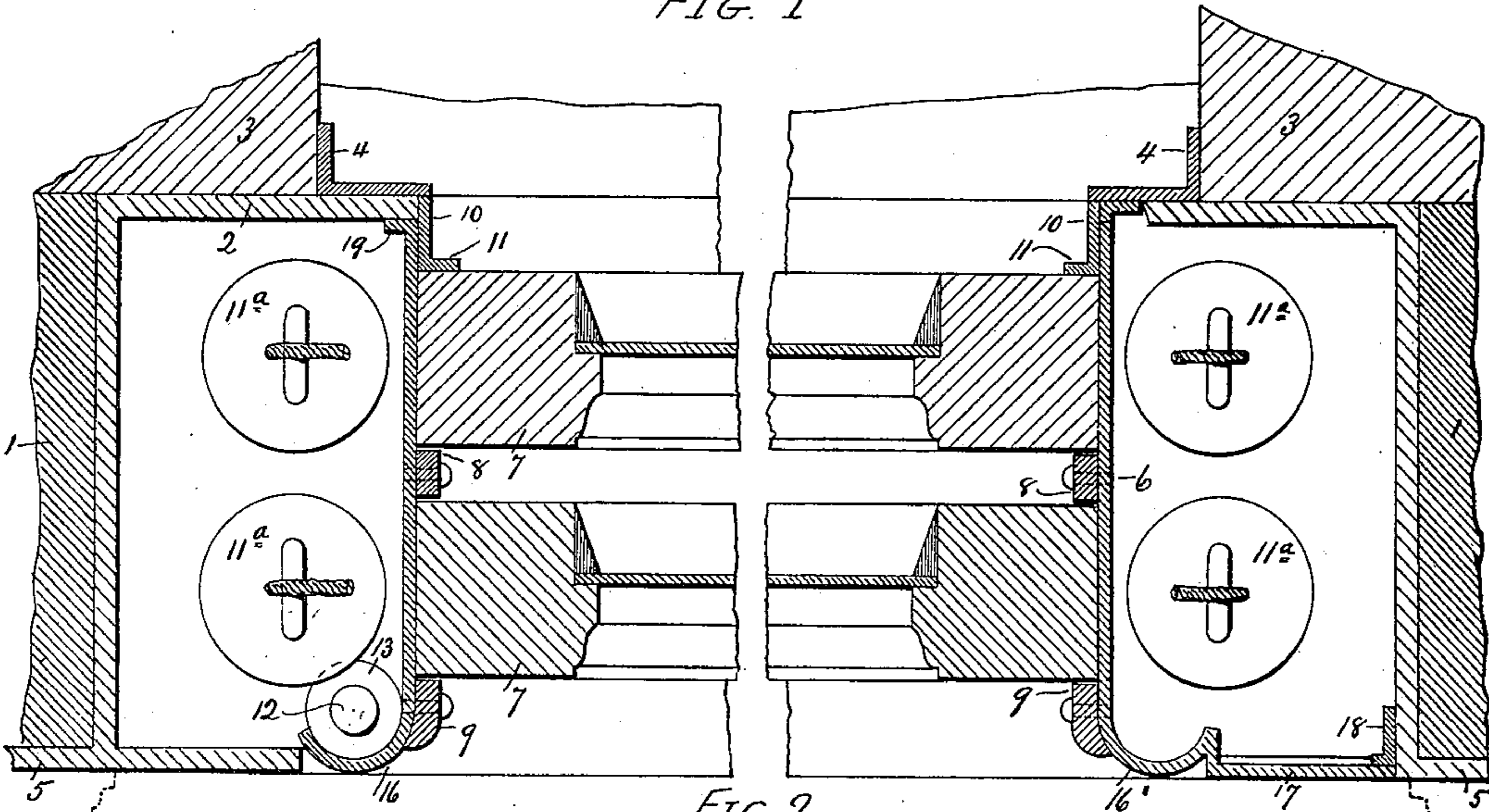
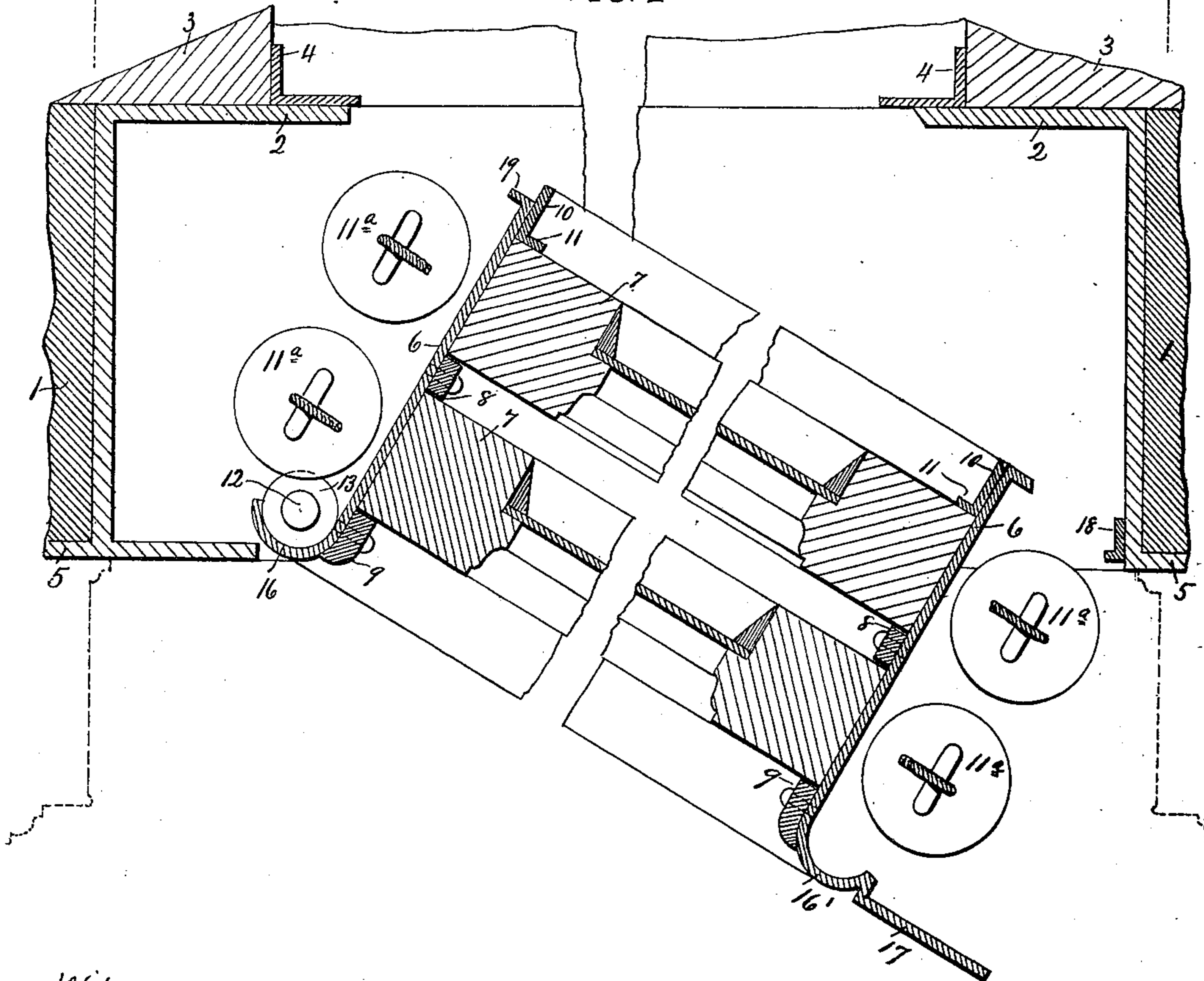


FIG. 2



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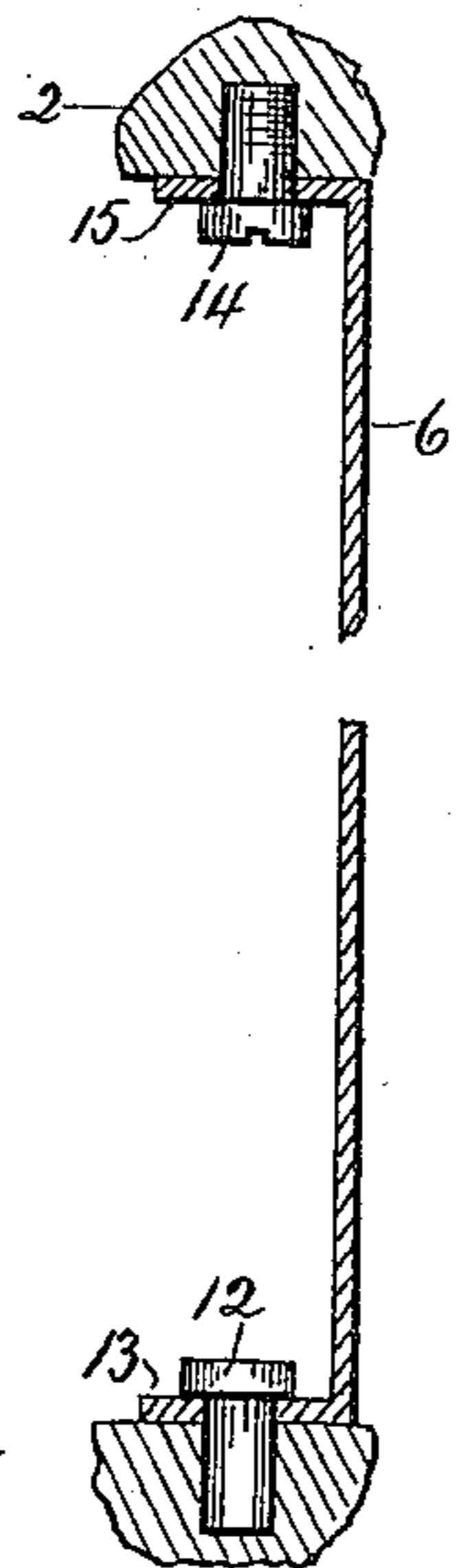
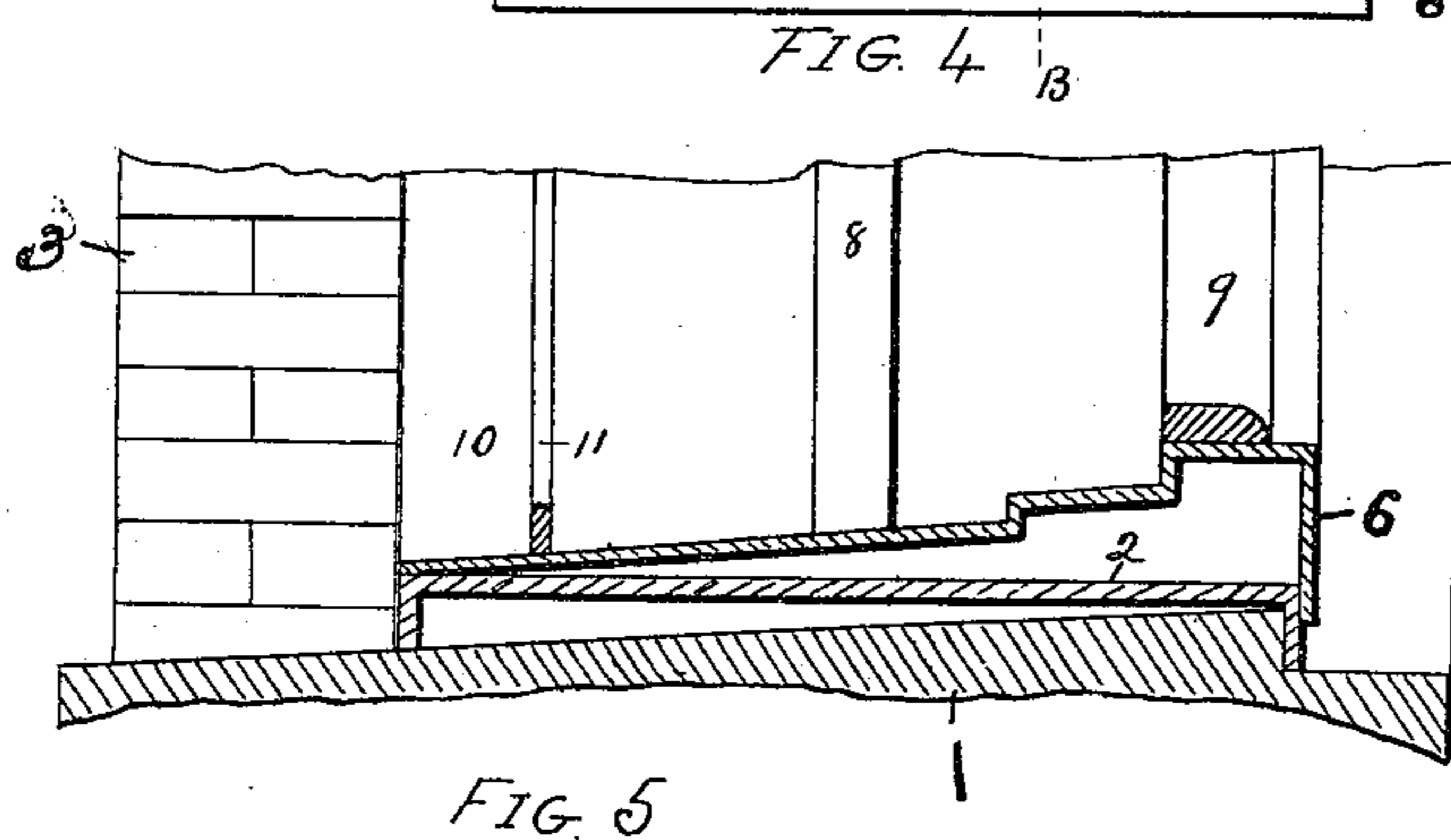
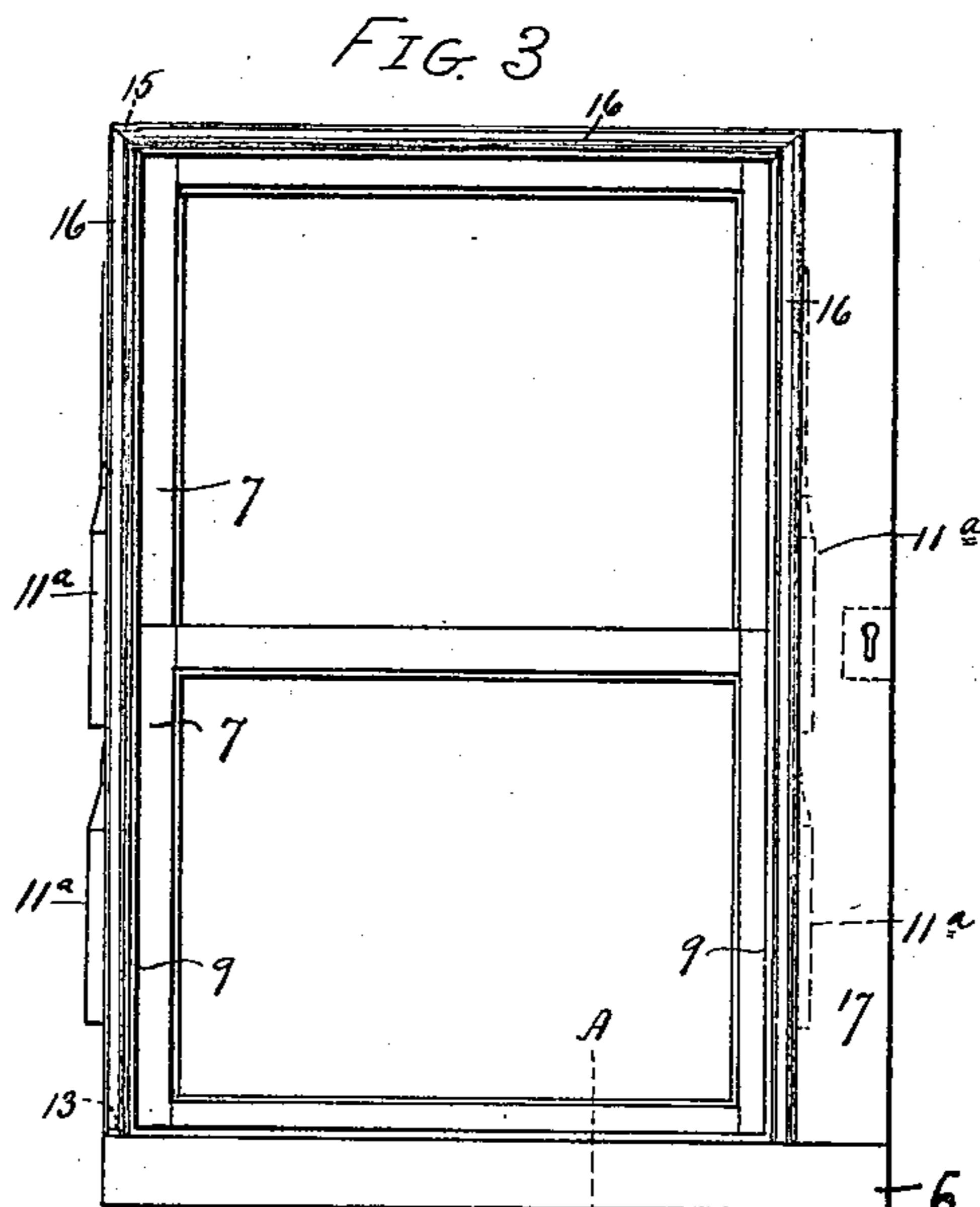
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UNITED STATES PATENT OFFICE.

DAVID R. BROWN, OF NEW HAVEN, CONNECTICUT.

WINDOW-FRAME.

SPECIFICATION forming part of Letters Patent No. 654,129, dated July 24, 1900.

Application filed April 25, 1900. Serial No. 14,214. (No model.)

To all whom it may concern:

Be it known that I, DAVID R. BROWN, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Window-Frames, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to a swinging window-frame, its objects, among other things, being to mount the window-sashes within a frame which can be swung into and out of the wall of a building and to construct a device of this character having the fewest possible parts so designed that they can be assembled and the device completed before the same is inserted within the wall of a building.

To these and other ends my invention consists in a swinging window-frame having certain details of construction and combination of parts, as will be hereinafter described, and more particularly pointed out in the claims.

Referring to the drawings, in which like numerals designate like parts in the several views, Figure 1 is a sectional view of the device from the top in its closed position with a fragmentary portion of the adjacent wall. Fig. 2 is a similar view with the frame shown in its partly-open position. Fig. 3 is an elevation of the window-frame. Fig. 4 is a fragmentary sectional view of the same, taken upon line A B of Fig. 3; and Fig. 5 is a fragmentary view of one side of the frame, showing its pivot-mountings.

In the drawings the numeral 1 designates the wall of a building, which so far as it relates to my invention may be of brick, stone, metal, or other material, and 2 designates a hollow metal box or casing which is inserted within the said wall, being open at its front and rear side and lateral movement thereof within the wall being prevented by the integral flange 5 and the angle-irons 4 4, which are fastened to the casing 2 and to the jambs 3 3.

The swinging window-frame consists of a rectangular frame 6, open at the front and rear side and within which are mounted the window-sashes 7 7, movable vertically, as in the ordinary window-frame, between the guide-strips 8 8, 9 9, and 10 10, fixed to the inside of said frame. The guide-strip 10 upon

the outer side of the frame has an inwardly-turned flange 11, which acts as a weather-strip. Affixed to the frame 6 are the usual sash-weights 11^a 11^a, the construction and operation of which are common in the art and therefore need not be described more in detail, as any form of sash-weight can be used with my invention. The frame 6 is hinged at the top and bottom within the casing 2, at the bottom by the pin 12 and at the top by the screw 14, which pass through the ears 13 and 15 upon the said frame into the casing 2, as illustrated in Fig. 5. The inner edges of the frame 6 are turned outward and rounded, as at 16 16', to form a bead, and thereby enhance the appearance of the frame from the inside of the building, and projecting laterally from the bead 16' is the flange 17, which is designed to cover and guard the sash-weights 11^a 11^a.

It is apparent from the drawings that the frame 6, containing the window-sashes, which are movable vertically therein, and the weights 11^a 11^a, which are connected therewith, can be swung as a unit upon the pivot-mountings 12 and 14 from the closed position (shown in Fig. 1) to the wide-open position, wherein the frame projects into the room. When in the open position, the windows are much more accessible for purposes of cleaning, &c., as they can now be reached from within the room instead of from outside of the building, as heretofore.

When the frame 6 is swung into its closed position, as shown in Fig. 1, the flange 17 abuts against the angle-stop 18 and the guide-strip 10 against the angle-irons 4 4 and the outwardly-turned flange 19 upon the frame 6 against the inner edge of the casing 2, thereby insuring a weather-tight joint or connection between all of the parts of the swinging frame and the rigid casing. A lock, as illustrated in Fig. 3, can be fixed to the frame 6, so as to secure the frame against movement within the casing, and the bottom of the frame 6 is inclined from the inside to the outside, (see Fig. 4,) so as to form a weather-tight joint underneath the window-sash.

As the several parts of this device are made of metal, they can be cheaply constructed and assembled as a unit in the factory and placed in the building all completed and without

further constructive operations. This form of device is especially applicable for metal buildings; but they can be used in buildings made of stone, brick, wood, or other material, if desired.

There are many minor changes and alterations that can be made within my invention, and I would therefore have it understood that I do not limit myself to the exact construction herein shown and described, but claim all that falls fairly within the spirit and scope of my invention.

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

1. In a device of the character described, the combination with a hollow casing open at both its front and rear sides and adapted to be embedded in the wall of a building; of a window-frame provided with projecting ears

and having an inclined bottom portion; and means, as studs passing through the said ears and into the said casing, for forming a pivotal connection between the said window-frame and casing; all constructed and operating substantially as set forth.

2. In a device of the character described, the combination with the casing 2, of the swinging window-frame 6, having the window-sashes 7 7 movable therein, and means, as the studs 12 and 14, for movably securing the said frame within the said casing, substantially as described.

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

DAVID R. BROWN.

Witnesses:

GEORGE E. HALL,
J. P. CROSBY.