

No. 724,548.

PATENTED APR. 7, 1903.

W. CROWTHER.
SHADE ROLLER BRACKET AND SASH STOP.

APPLICATION FILED NOV. 13, 1902.

NO MODEL.

Fig. 1.

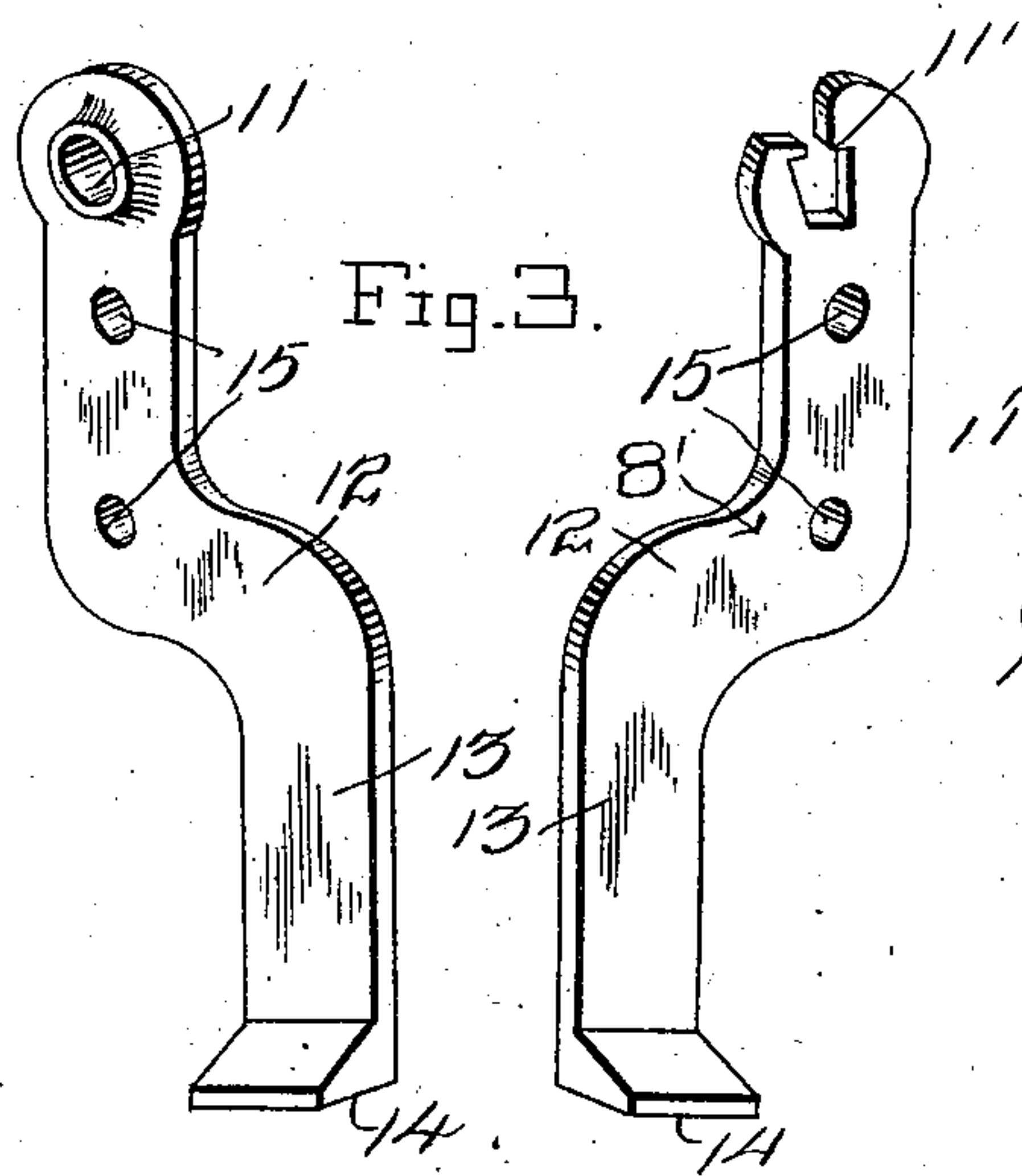
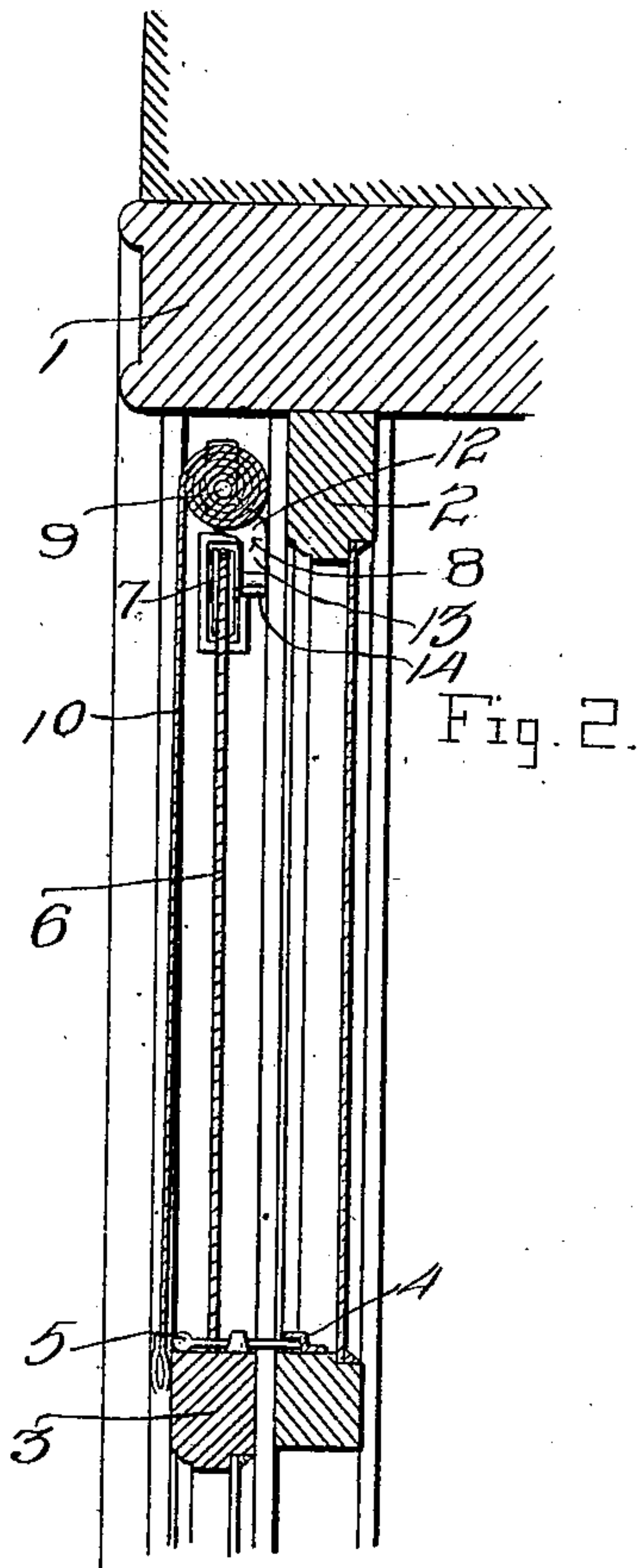
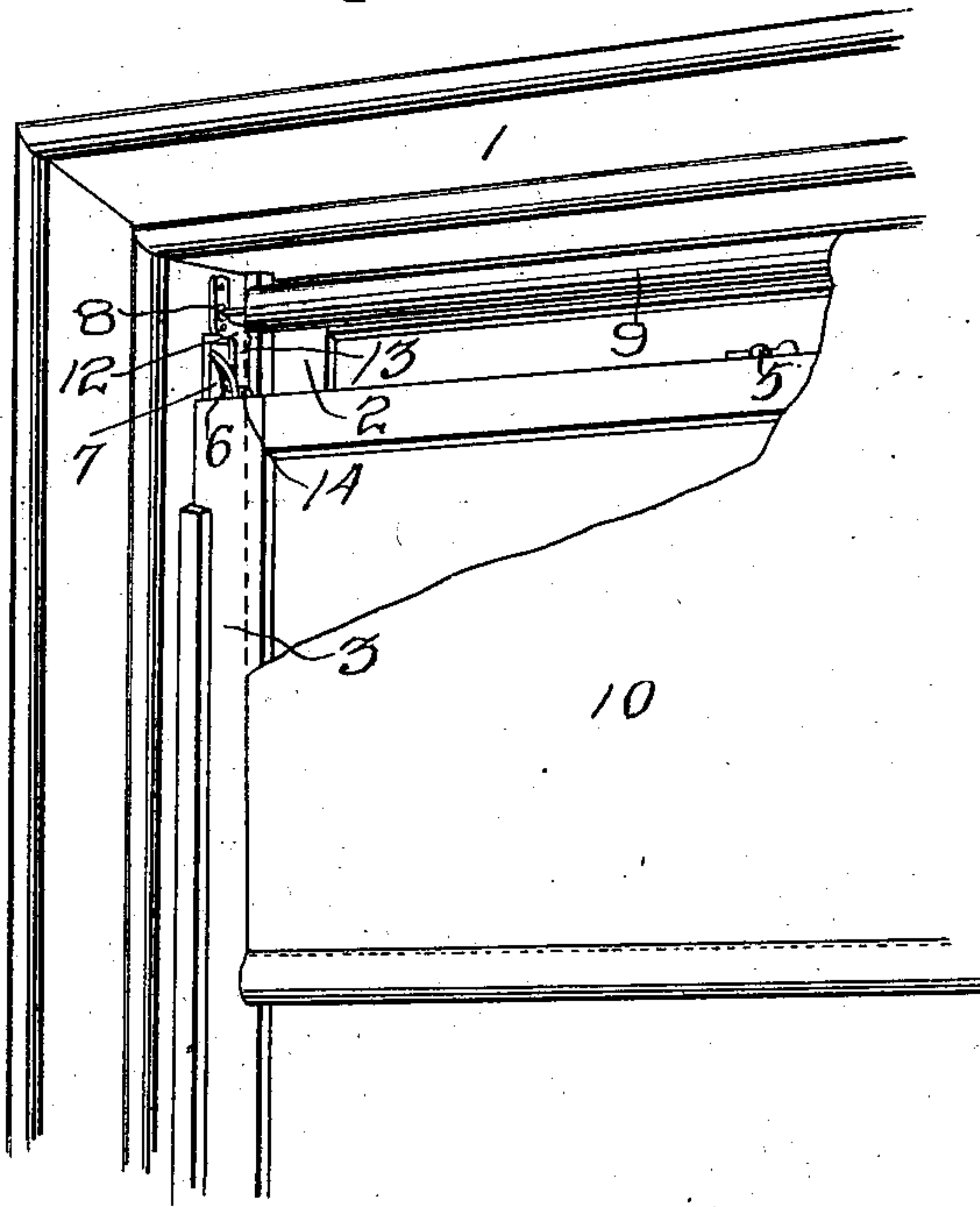


Fig. 3.

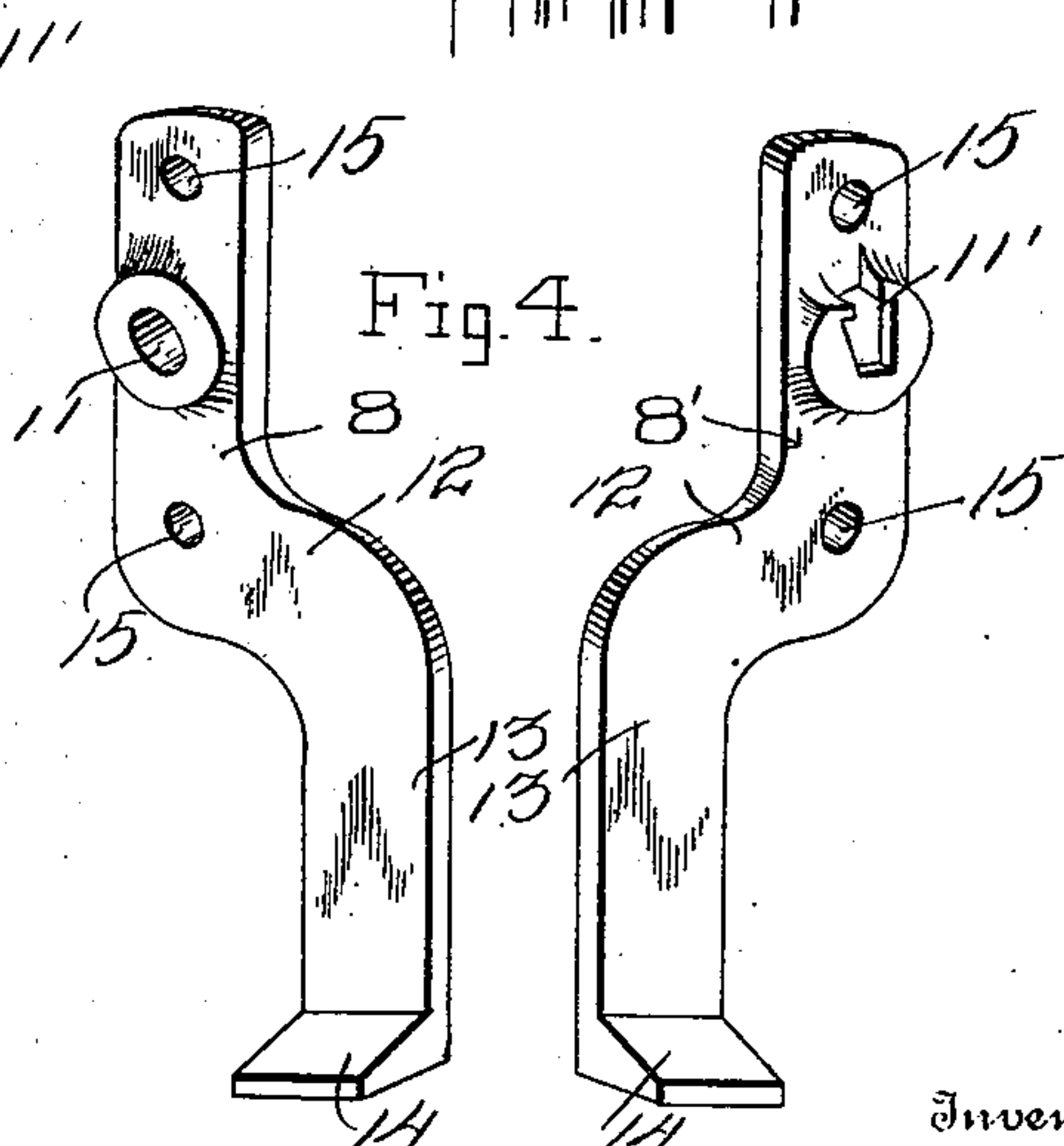


Fig. 4.

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UNITED STATES PATENT OFFICE.

WILFRED CROWTHER, OF ST. PAUL, MINNESOTA.

SHADE-ROLLER BRACKET AND SASH-STOP.

SPECIFICATION forming part of Letters Patent No. 724,548, dated April 7, 1903.

Application filed November 13, 1902. Serial No. 131,252. (No model.)

To all whom it may concern:

Be it known that I, WILFRED CROWTHER, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Shade-Roller Brackets and Sash-Stops; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a combined shade-roller bracket and stop; and its object is to provide roller-brackets which in addition to acting as bearings for the shade-roller will perform the function of arresting the upward movement of the lower sash to prevent the latch member carried by said sash from catching in and obstructing or tearing the shade when the latter is drawn down.

With this object in view the invention consists in certain novel features of construction, combination, and arrangement of parts, which will be hereinafter more fully set forth, and particularly defined in the appended claims.

In the accompanying drawings, Figure 1 is a fragmentary perspective view of a window-frame equipped with my invention, showing the lower sash arrested by one of the brackets to prevent the latch from engaging the shade. Fig. 2 is a vertical section through the frame, showing the arrangement of one of the shade-roller brackets and stops. Fig. 3 shows perspective views of the roller-brackets, and Fig. 4 shows a modification in the construction of the brackets.

Referring now more particularly to the drawings, 1 represents a window-frame of ordinary construction; 2 and 3, the upper and lower sashes arranged therein; 4 and 5, the keeper and catch of the fastening applied to the meeting-rails of the sashes for locking the same in closed position; 6, a sash-balance cord connected to the sash 3 and passing over a guide-pulley 7 on one of the jambs of the frame; 8 8', the shade-hanger brackets secured to the inner faces of the jambs of the frame within the guide-groove of the lower sash; 9, a spring-actuated shade-roller mounted therein, and 10 a window-shade applied to said roller. One bracket, 8, has a round opening 11 to receive the journal on one end

of the shade-roller, while the other bracket, 8', is provided with the usual form of notch 11' to receive the rectangular end of the spring-actuated shaft of the shade-roller. These parts as thus far described are of ordinary construction and mounted in the usual way.

In carrying my invention into practice I provide each bracket with a lateral offset 12, forming part of a vertical downward extension or stop-limb 13, terminating at its lower end in a right-angular stop-flange 14, the said offset deflecting the extension or stop-limb so that it lies in a vertical plane parallel with and to one side of the plane of the body of the bracket. This, as shown in Fig. 2, allows the extension 13 to clear the pulley 7 and project down outside or in rear of it, such position being determined relative to the inner or front face of the window-frame 1 so that it will not interfere with the pulley or the sash-balance cord 6. By this means the stop 14 of the two brackets 8 and 8' will lie in the path of the upper cross-bar of the lower sash 3 and will arrest the upward movement of said sash at a certain point to prevent interference with the shade by the catch 5.

It is well known that when the parts are mounted in the manner shown and described the catch 5 upon the lower sash will when said sash is pushed up too near the limit of its upward movement engage the shade-roll and in many cases interfere with the free movement of the same and sometimes cause the shade, when pulled down or allowed to roll up, to be torn or otherwise injured. By constructing and arranging the brackets as stated, however, the stops 14 are so arranged as to be engaged by the upper cross-bar of the lower sash before the catch 5 comes into engagement with the roll or shade, thus adapting the roll to turn and the shade to wind or unwind without interference from said sash. I may provide the stop upon one or both brackets.

Figs. 3 and 4 show two sets of brackets embodying my invention. In one form the notch 11' opens through the edge of the bracket, while in the other it is formed in the body of the bracket without opening through the edge. In one form also the two openings 15 for passage of the fastenings are both below the opening 11 and notch 11', while in the other form

one opening is below and the other above the opening or notch of each bracket. The construction in each case is, however, otherwise the same.

5 From the foregoing description, taken in connection with the accompanying drawings, the construction, operation, and advantages of the invention will be readily understood, it is thought, without requiring a more ex-
10 tended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of
15 my invention.

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

20 1. A shade-roller bracket comprising a plate provided with a vertical bracket member, a limb 13 below and in a vertical plane parallel

with and at one side of the plane of said bracket member, an offset 12 connecting said members, and a stop-flange 14 at the lower end of the limb, substantially as described. 25

2. The combination with a sash-frame carrying pulleys for the sash-cords, a lower sash, and a shade-roller, of roller-supporting brackets located above the said pulleys and provided with outwardly and laterally curved and
30 downwardly-projecting stops extending alongside and in rear of the pulleys to limit the upward movement of said sash, substantially as described.

In testimony whereof I have hereunto set
35 my hand in presence of two subscribing witnesses.

WILFRED CROWTHER.

Witnesses:

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