

F. T. LIPPINCOTT.

LATCH.

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979,178.

Patented Dec. 20, 1910.

Fig. 1.

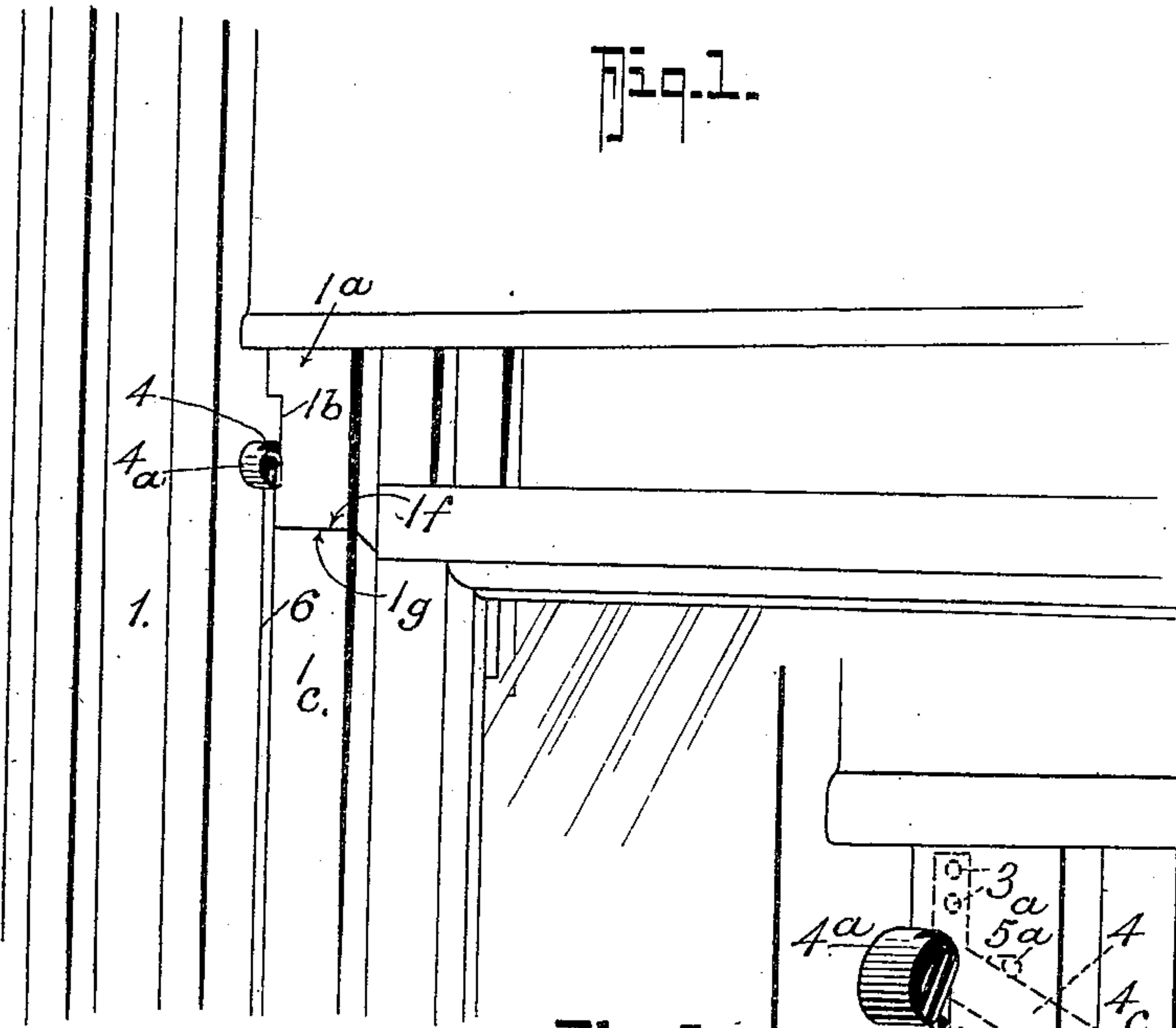


Fig. 2.

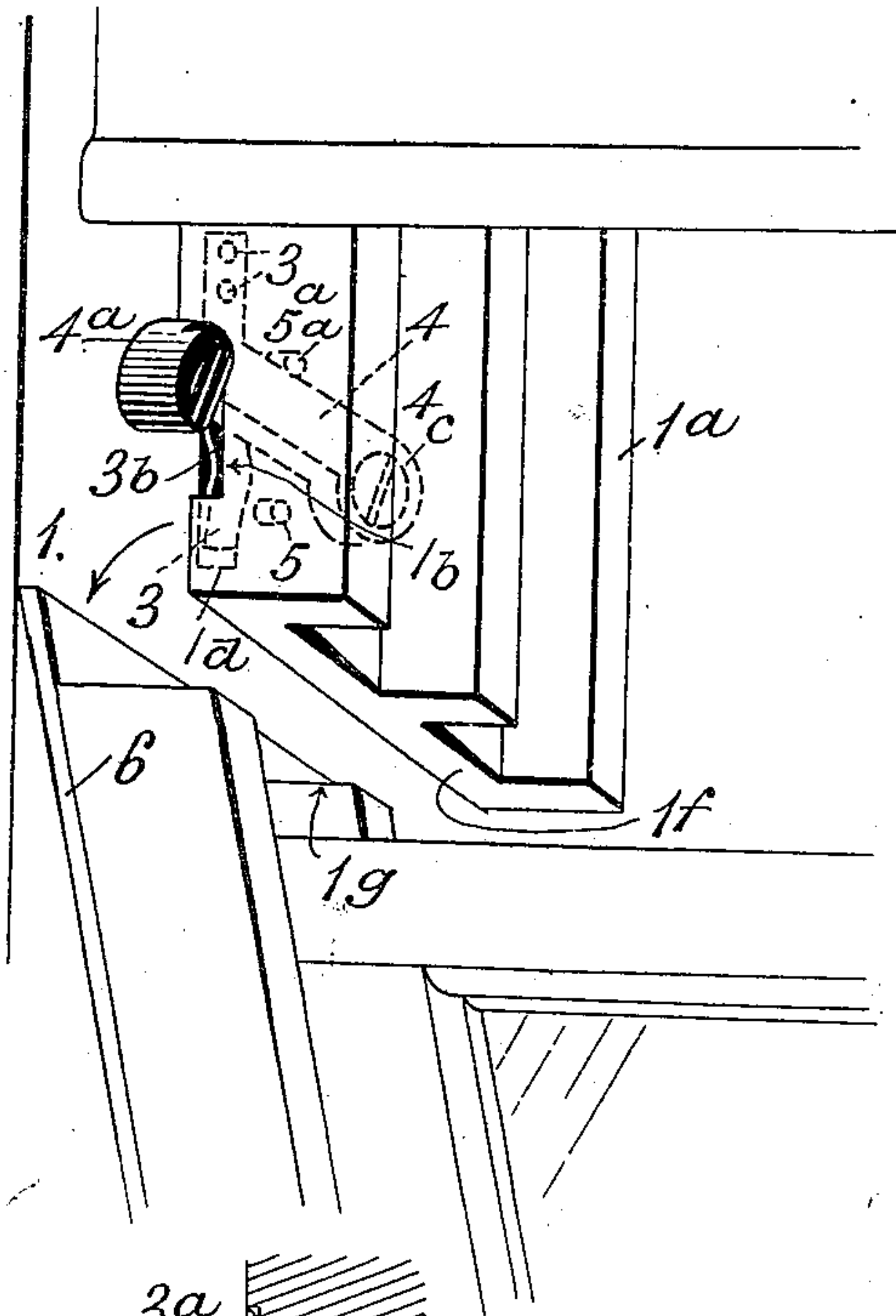


Fig. 3.

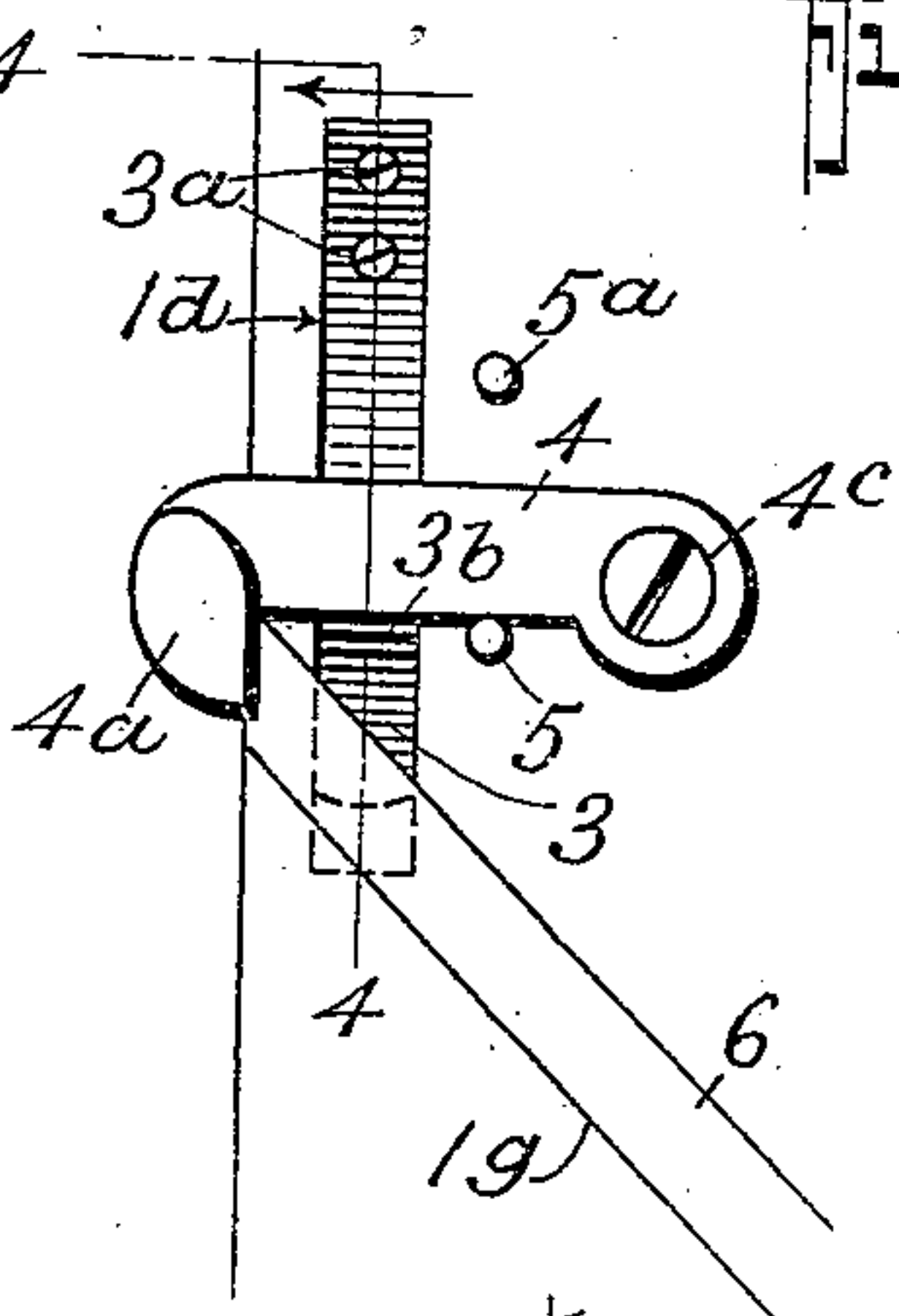


Fig. 4.

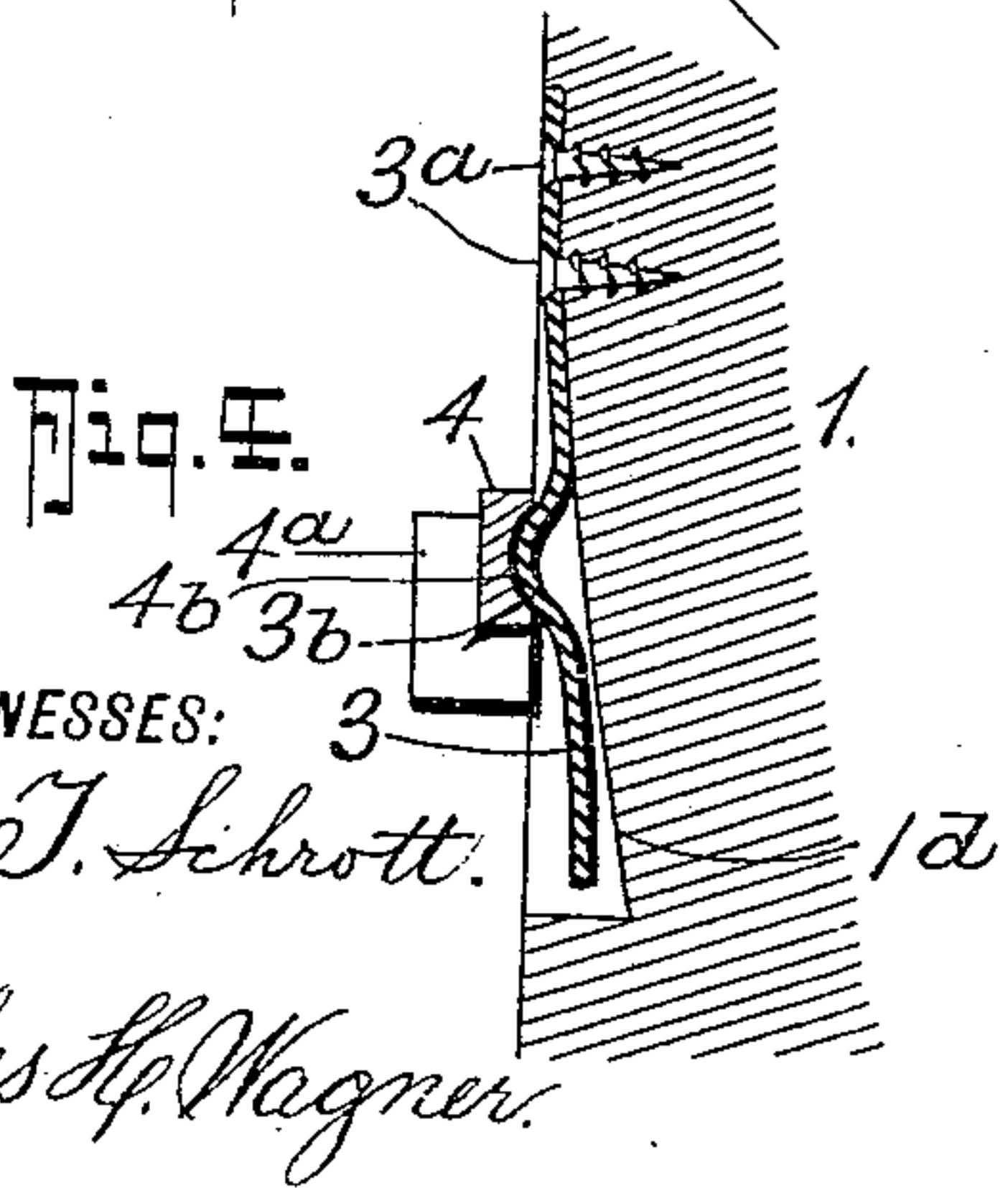
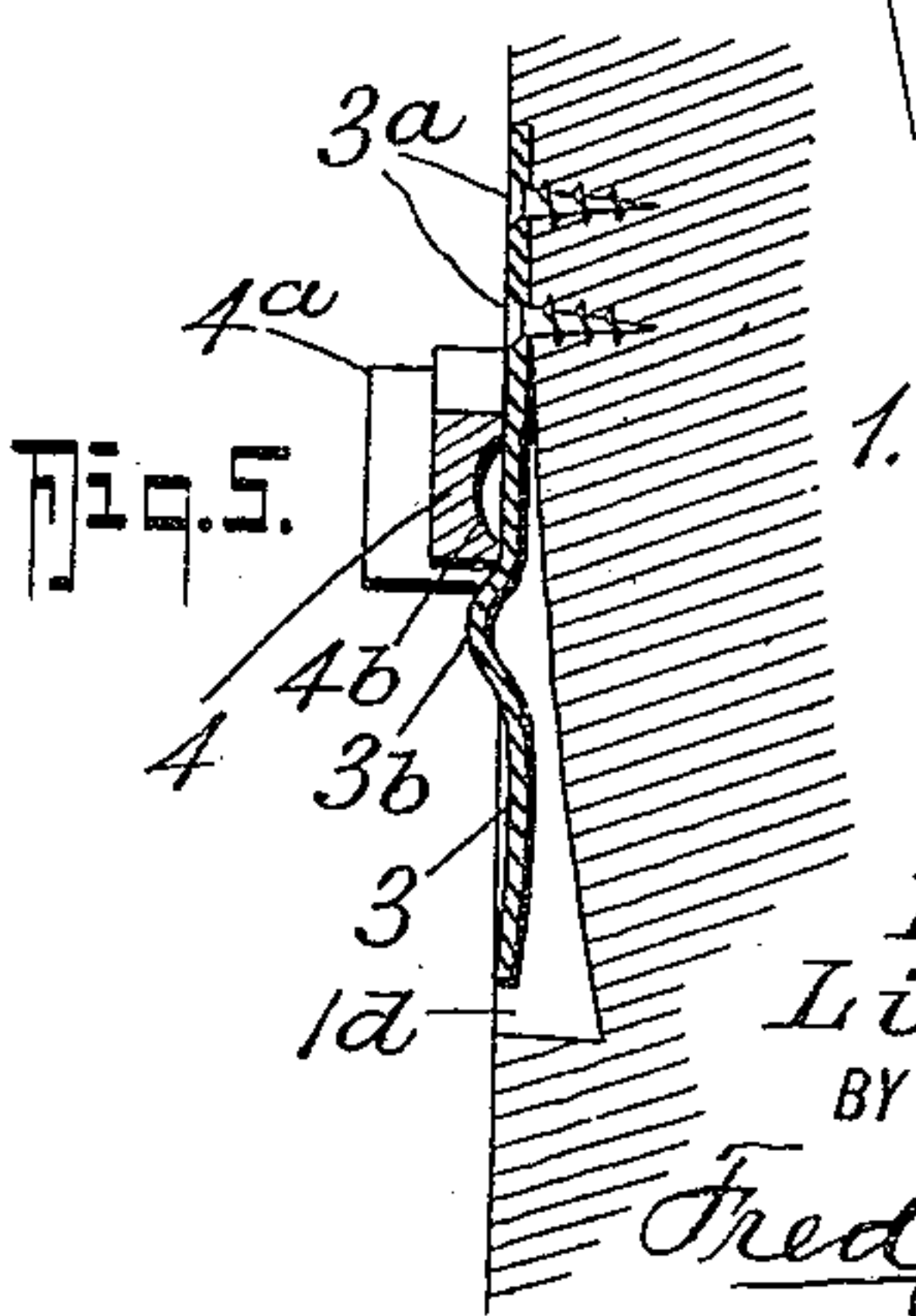


Fig. 5.



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UNITED STATES PATENT OFFICE.

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LATCH.

979,178.

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Original application filed October 22, 1909, Serial No. 524,073. Divided and this application filed March 23, 1910. Serial No. 551,065.

To all whom it may concern:

Be it known that I, FRANK T. LIPPINCOTT, residing at Newark, in the county of Licking and State of Ohio, have invented certain new and useful Improvements in Latches, of which the following is a specification.

This invention has for its object to provide a simple and effective construction of latch device for retaining the fixed and swingable sections of the window frame in alinement with one another.

This application is a divisional part of my co-pending application filed October 22, 1909, Serial No. 524,073.

The invention resides in those novel details of construction, combination and arrangement of parts, all of which will be first fully described, then specifically pointed out in the appended claims, and illustrated in the accompanying drawings, in which:—

Figures 1 and 2, are detail perspective views of a portion of a window frame with my invention applied. Fig. 3, is an elevation of the invention, the fixed frame section of the groove sash receiving members being removed. Figs. 4 and 5, are detail sections on the line 4—4 of Fig. 3 showing the two positions of the latch proper.

Referring now to the accompanying drawings in which like letters and numerals of reference indicate like parts in all of the figures, 1 is the window frame having the fixed groove sash receiving section 1^a and the hinged groove sash receiving section 1^c. The fixed section 1^a has a beveled lower end at 1^f and the other section 1^c is correspondingly beveled at 1^g. The fixed section 1^a has a channel 1^b cut in its inner side, adjacent to the frame 1, to receive the latch bar 4 that has an eye through which the pivot screw 4^e is passed and which has a head 4^a to engage the reinforcing plate 6 of the frame section 1^g. The latch bar 4 has a depression 4^b on its side to receive a hump or bow 3^b in a leaf spring 3 that is secured at 3^a in a recess 1^d of the frame 1, to hold the latch bar in its latching position. Stops 5—5^a limit the movement of the bar 4.

In operation the parts are normally positioned as shown in Figs. 1, 3 and 4, to hold the window frame sections 1^a—1^b in alinement with one another so the window sashes may be slid up and down. When the latch bar 4 is lifted, as shown in Figs. 2 and 5,

the section 1^c may be swung out and the latch bar 4 will be held in its elevated position by the abutment or hump 3^b in the spring 3, coming under the latch bar.

From the foregoing description taken in connection with the accompanying drawings, it is thought the complete construction, operation and advantages of the invention will be readily understood by those skilled in the art to which the invention appertains.

What I claim is:—

1. In a window having a casing provided with a fixed groove frame section and a movable groove frame section for receiving the sashes; means for securing said frame sections in alinement with one another, which means comprises a latch bar pivoted to the window casing between the casing and the fixed frame section to be partly inclosed by the fixed frame section, said latch bar having a head to lap over the ends of the movable frame section to retain it in place.

2. In a window having a casing provided with a fixed groove frame section and a movable groove frame section for receiving the sashes; means for securing said frame sections in alinement with one another, which means comprises a latch bar pivoted to the window casing between the casing and the fixed frame section to be partly inclosed by the fixed frame sections, said latch bar having a head to lap over the ends of the movable frame section to retain it in place, and a leaf spring carried by the window casing for engaging the latch bar and retaining it in its different positions.

3. In a window having a casing provided with a fixed groove frame section and a movable groove frame section for receiving the sashes; means for securing said frame sections in alinement with one another, which means comprises a latch bar pivoted to the window casing between the casing and the fixed frame sections, said latch bar having a head to lap over the ends of the movable frame section to retain it in place, a leaf spring carried by the window casing for engaging the latch bar and retaining it in its different positions, and a means for limiting the movement of said latch bar.

4. In a window construction, a casing having a fixed groove sash receiving section and a movable groove sash receiving section, of means for retaining said grooved

sections in alinement with one another, which comprises a latch bar pivoted to the window casing, said fixed groove section being cut away to receive said latch bar and
5 partly inclose the same, stops carried by the casing for limiting the movement of said latch bar, said latch bar having an exposed head to engage the movable section to retain it in position at times, said window casing
10 ing having a recess, a leaf spring in said recess for engaging said latch bar to hold it in its different positions.

5. In a window construction, a casing having a fixed groove sash receiving section
15 and a movable groove sash receiving section, of means for retaining said grooved sections in alinement with one another, which comprises a latch bar pivoted to the win-

dow casing, said fixed groove section being cut away to receive said latch bar and partly
20 inclose the same, stops carried by the casing for limiting the movement of said latch bar, said latch bar having an exposed head to engage the movable section to retain it in position at times, said window casing having a
25 recess, a leaf spring in said recess for engaging said latch bar to hold it in its different positions, said latch bar having a recess in one face and said spring having a hump or projection to enter said recess when said
30 latch bar is in engagement with said movable section.

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Witnesses:

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