

S. B. STORMS.
WINDOW SASH SUPPORT.
APPLICATION FILED DEC. 19, 1907.

899,273.

Patented Sept. 22, 1908

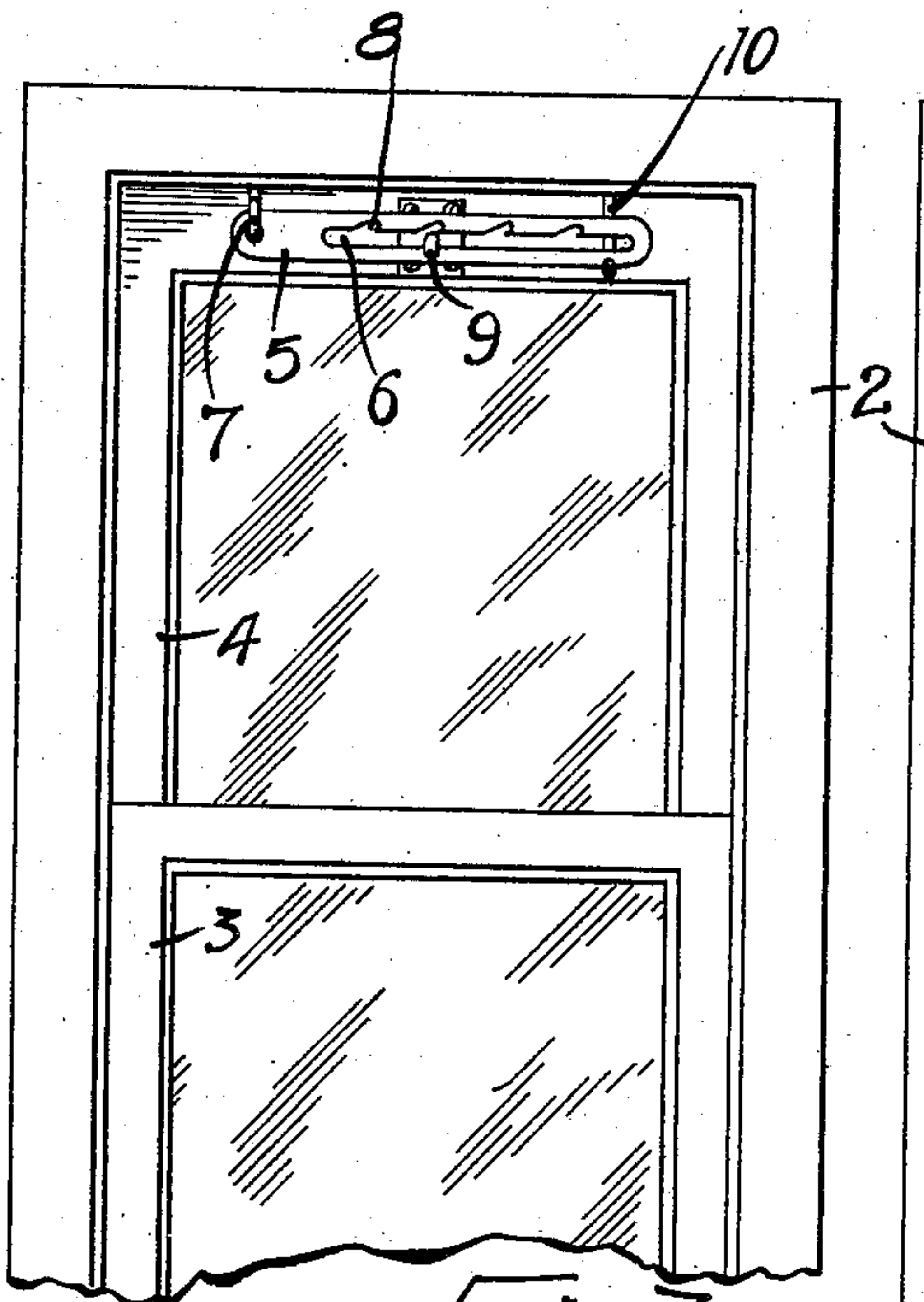


Fig. 3.

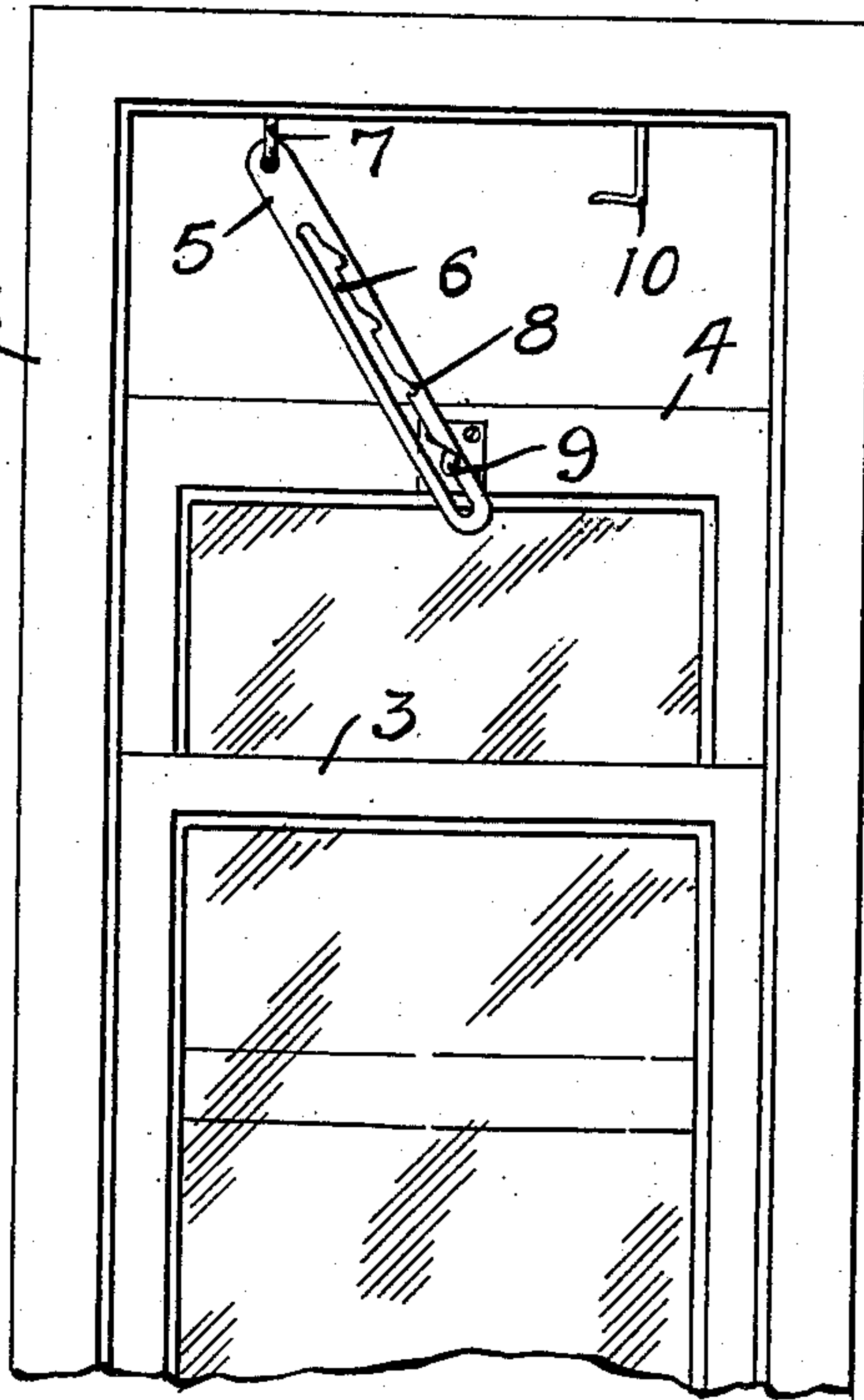


Fig. 4.

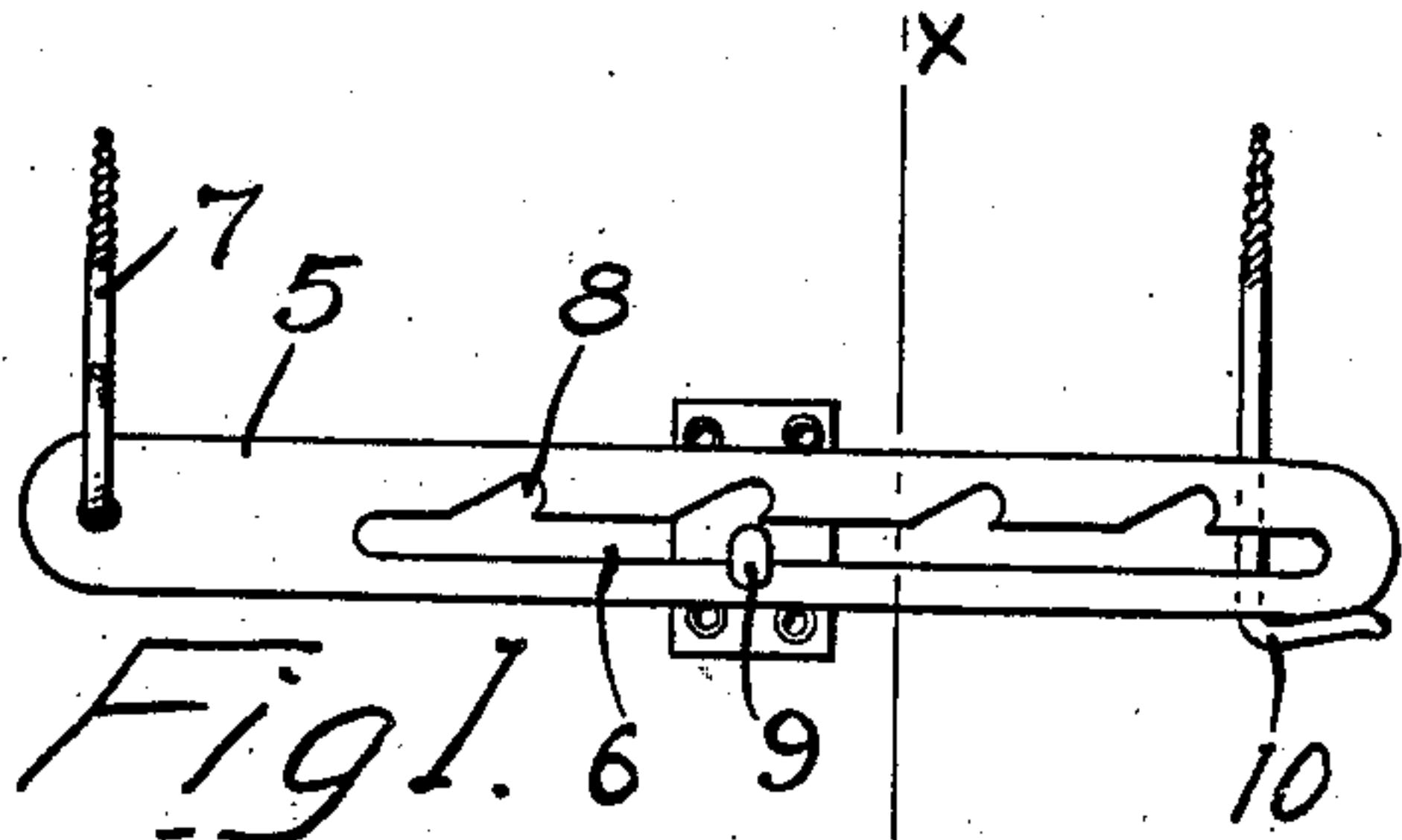


Fig. 1.

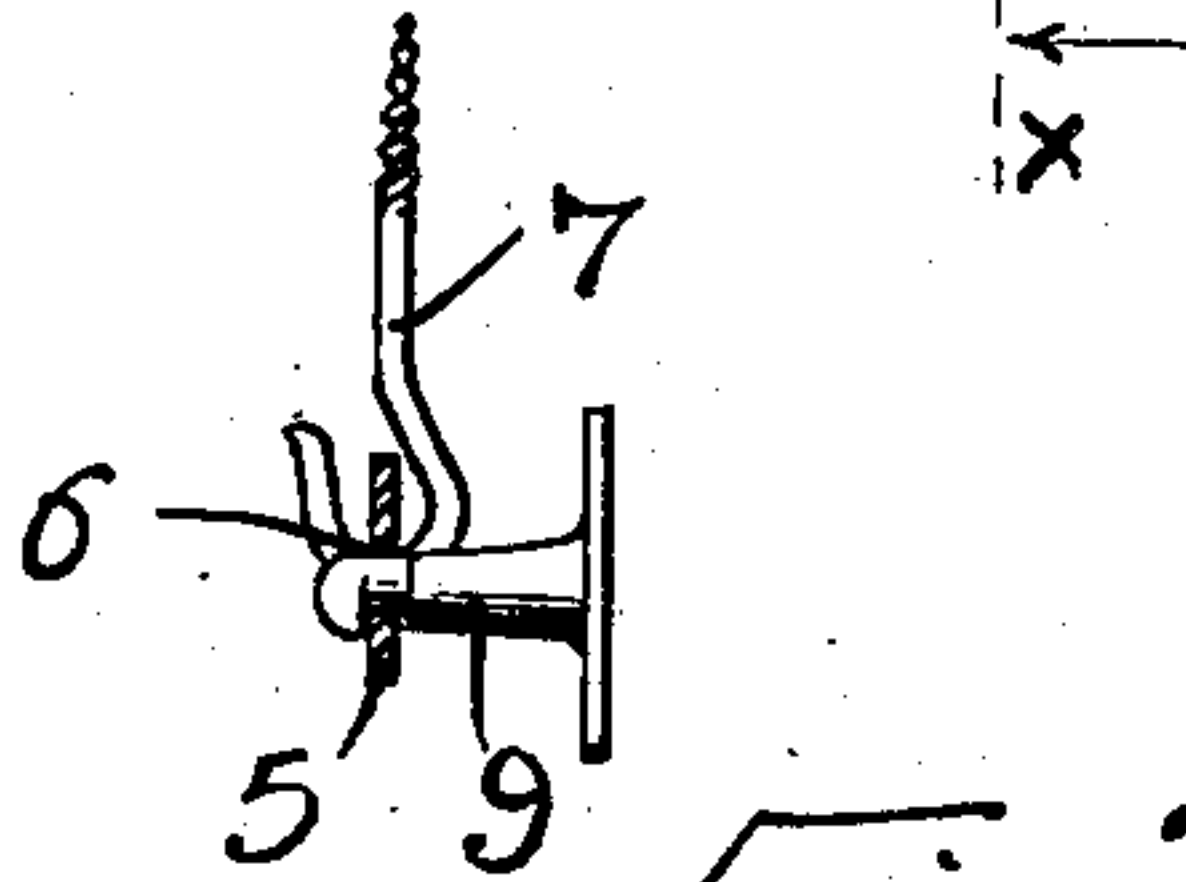


Fig. 2. x-x

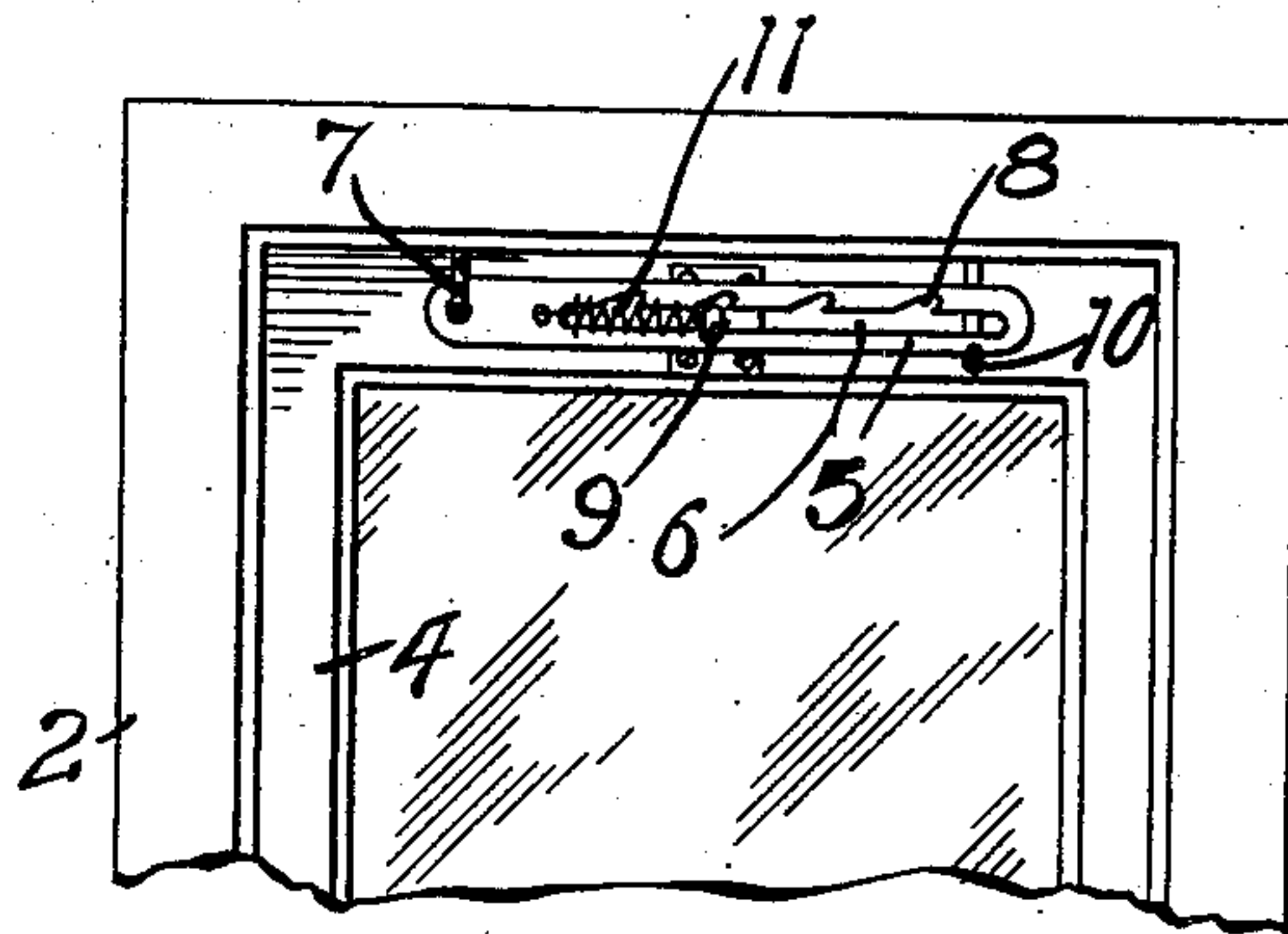


Fig. 5.

WITNESSES
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UNITED STATES PATENT OFFICE.

SPERRY B. STORMS, OF MINNEAPOLIS, MINNESOTA.

WINDOW-SASH SUPPORT.

No. 899,273.

Specification of Letters Patent.

Patented Sept. 22, 1908.

Application filed December 19, 1907. Serial No. 407,123.

To all whom it may concern:

Be it known that I, SPERRY B. STORMS, of Minneapolis, Hennepin county, Minnesota, have invented certain new and useful Improvements in Window-Sash Supports, of which the following is a specification.

My invention relates particularly to windows where no weight is used to balance the sash, and the object of the invention is to provide means whereby the upper sash of the window can be lowered any desired distance and securely locked when raised, thereby enabling the occupant of a room to admit air through the upper part of the window or to close and lock the window when the room is unoccupied.

The invention consists generally in various constructions and combinations, all as hereinafter described and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a detail view of the supporting device embodying my invention. Fig. 2 is a sectional view on the line $x-x$ of Fig. 1. Fig. 3 is a view illustrating the device in use with the window closed. Fig. 4 is a similar view illustrating the device in use with the window open. Fig. 5 illustrates the window closed and showing a modified construction.

In the drawing, 2 represents a window casing and 3 and 4 the lower and upper sashes. Generally in this type of window where no weights are provided for either sash, the upper one is held in its closed position by means of blocks fastened to the window frame, the lower sash being held open by props of various kinds placed beneath it. To allow the adjustment of the upper sash and permit it to be closed or opened when it is desired to ventilate the room and without the use of weights or spring fastening devices on the sides of the sash, I provide a plate 5 having a longitudinal slot 6 therein and pivoted at one end on a hook 7 that is inserted into the frame near the top of the sash. The slot 6 has a series of recesses 8 communicating therewith and a stud 9 is secured to the top of the sash and is adapted to slide in the slot 6 and enter one of the notches 8 and support the sash in any desired position. I have shown a series of four of these notches in the

plate at one side of the slot but a greater or less number may be provided if desired.

When the window is dropped to its lowest point the stud will rest in the lower end of the slot and the plate will be nearly vertical and when the window is closed the stud will slide to a point near the middle of the slot and the plate will be nearly horizontal and in this position I provide a hook 10 in the top of the sash that is adapted to swing in under the free end of the plate and support it in its horizontal position and lock the window against accidental opening. Whenever desired the hook may be turned to its unlocked position allowing the plate to swing downwardly and the stud to enter one of the recesses in the plate, when the window will be supported securely and cannot drop down any further until the plate is disengaged therefrom.

To prevent the window from accidentally dropping down too far, I may provide a spring 11 having one end attached to the plate and the other to the stud 9, so that when the plate is released the tension of the spring will support the sash.

I claim as my invention:

1. The combination, with a window frame, of an upper sash, a plate 5 pivoted at one end in the top of said frame, said plate having a longitudinal slot 6 therein and a series of recesses 8 in one edge communicating with said slot, a stud 9 secured to the top of said sash and having a hooked end adapted to slide in said slot and a shank to enter the recesses in said plate whereby said sash may be supported at different elevations, said plate being swung up under the top of said frame when the window is raised to its closed position, and a hook device mounted in said frame and adapted to swing in under the free end of said plate and lock it in its raised horizontal position and prevent the lowering of said sash, substantially as described.

2. The combination, with a window frame, of an upper sash, a plate pivoted at one end to the top of said frame and having a longitudinal slot therein and a series of diagonal recesses communicating with said slot, a stud secured to the top of said sash and having an end adapted to slide in said slot, and a shank to enter successively the recesses in said

plate, whereby said sash may be supported
at different elevations, said plate being adapt-
ed to swing up to the top of said frame in a
horizontal position when the window is
5 closed, and means for supporting said plate
in such horizontal position, and a spring at-
tached at one end to said plate and at its
other end to said hook, whereby the sash

will be supported when lowered, substan-
tially as described. 13

In witness whereof, I have hereunto set
my hand this 12th day of December 1907.

SPERRY B. STORMS.

Witnesses:

RICHARD PAUL,
J. B. BYINGTON.