

(No Model.)

L. HALL.

ADJUSTABLE STORM SASH AND WINDOW SCREEN FASTENER.

No. 453,171.

Patented May 26, 1891.

Fig. 3.

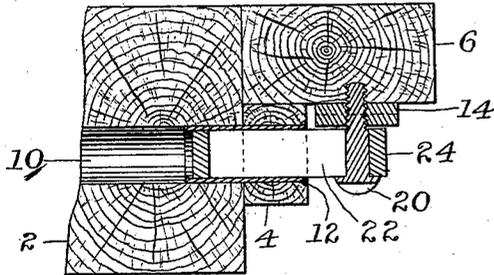


Fig. 1.

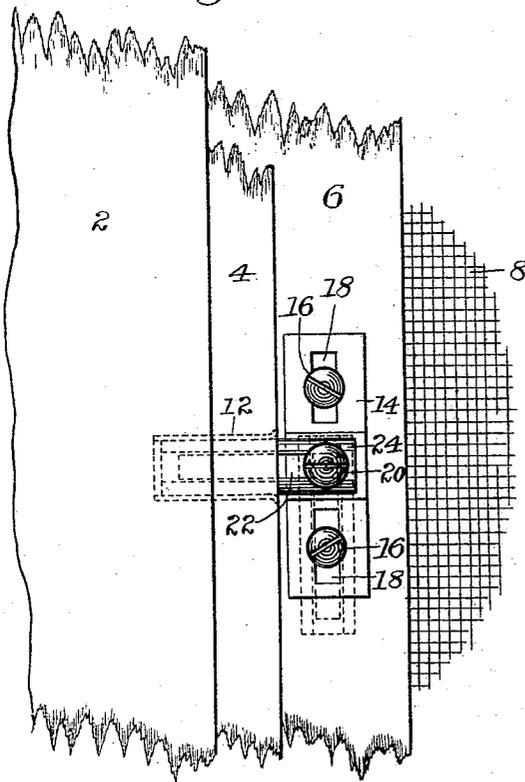
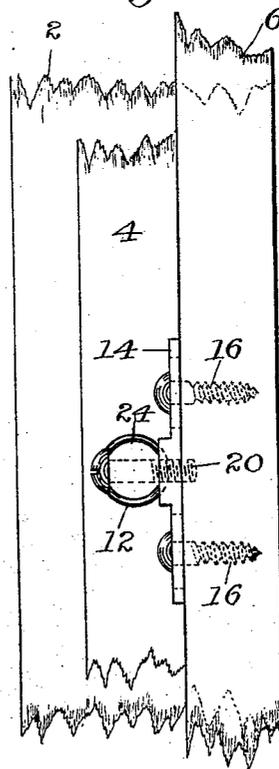


Fig. 2.



Witnesses:-

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UNITED STATES PATENT OFFICE.

LEE HALL, OF ST. PAUL, MINNESOTA.

ADJUSTABLE STORM-SASH AND WINDOW-SCREEN FASTENER.

SPECIFICATION forming part of Letters Patent No. 453,171, dated May 26, 1891.

Application filed January 3, 1891. Serial No. 376,563. (No model.)

To all whom it may concern:

Be it known that I, LEE HALL, of St. Paul, Ramsey county, Minnesota, have invented certain Improvements in Adjustable Storm-Sash and Window-Screen Fasteners, of which the following is a specification.

My invention relates to improvements in devices for detachably fastening in place window or door screens and storm-sashes, which are fitted into the outside of the window or door frames, by means of which they can be firmly secured therein or unfastened readily from the inside.

To this end my invention consists in securing to the inner face of the sash, preferably near each corner, a pivoted and sliding bolt, and in fitting into the adjacent frame a thimble to receive said bolt, the bolts being rigidly secured in place, and the sash drawn tightly in place by means of screws passing through slots in said bolts and threaded into a supporting-plate upon the sash.

My invention further consists in the construction and combination hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a front elevation of a portion of a window-screen sash and the adjacent frame to which it is fitted, showing in full lines the securing-bolt in position and in dotted lines the position of the bolt when withdrawn from the window-frame and hanging loosely on its securing-screw. Fig. 2 is a side elevation of the same, and Fig. 3 a cross-section through the center of the bolt.

In the drawings, 2 represents the window-frame, 4 the window-stop, and 6 the sash of the screen 8. Into the stop 4 and frame 2 is bored a hole 10 in a plane parallel with and a short distance from the face of the screen. Into this hole is set a thimble 12, the end of the thimble being flush with the face of the stop. Upon the face of the frame 6 is secured the plate 14 by means of screws 16, the vertical position of the plate being adjusted by means of slots 18, through which the screws are passed, whereby the height of the plate may be arranged as desired. Into the plate is threaded the machine-screw 20, which is passed through the slot 22 of the bolt 24. This

bolt is of a size to fit into the thimble 12, and is slotted nearly from end to end, the sides of the bolt being preferably slightly flattened to furnish a bearing for the same upon the plate 14 and for the head of the securing-screw. It will thus be seen that with the bolt held loosely on the screw 20 it is free to slide and turn thereon, and may be slipped into the thimble in the adjacent frame, so as to hold the sash from being withdrawn from the frame.

In use the plates 14 and thimbles 12 having been secured in approximately proper position, the sash is set in place in the frame. The screws 16 are then loosened to adjust the position of the plate 14, so that the screw 20 will stand in line with the center of the adjacent thimble 12. The screws 16 then being tightened the plate is secured firmly in place. The bolt 24 being turned on the screw 20, from the position indicated by the dotted lines in Fig. 1 to a horizontal position, is thrust into the thimble in the position shown by the full lines in Figs. 1 and 3. The screw 20 is then tightened, so as to draw the sash inward tightly against the stop 4, and also to secure the bolt firmly upon the plate 14, and thus to hold it from being withdrawn from the thimble. In removing the sash from the frame it is simply necessary to loosen the screws 20 and withdraw the bolts to entirely free the sash, all of the work of securing or removing the sash being done from the inside of the window.

I claim—

1. The combination, with a frame and sash fitted thereto, of a socket in the frame, a bolt fitted to said socket having a longitudinal slot therethrough, a plate adjustably secured upon the face of the sash, and a screw-threaded pivot extending through said slot and entering said plate, by means of which the bolt may be adjustably secured upon said plate, substantially as and for the purposes set forth.

2. The combination, with the removable sash, of a slotted bolt, a pivot therefor passing through said slot, a support for said pivot adjustably secured to said sash, and a socket for said bolt in the frame adjacent to said sash, substantially as and for the purposes set forth.

3. Means for securing a removable sash

within its frame, comprising a plate adjustably secured upon the face of the sash, a sliding and pivoted bolt carried by said plate and adapted to enter an opening in the side
 5 of the adjacent frame, and means for securing the bolt in adjusted positions, substantially as and for the purposes set forth.

4. An adjustable sash-fastener comprising, in combination, a pivot-plate adjustably secured upon the face of the sash, a pivot carried by said plate, a slotted bolt turning and sliding upon said pivot, and means for gripping said bolt upon said plate in adjusted positions, substantially as and for the purposes set forth.
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5. An adjustable sash-fastener comprising, in combination, a pivot-plate having slotted screw-holes by means of which it can be secured upon the sash in adjusted positions, a
 20 pivot carried by said plate, a slotted bolt carried by said pivot, and means for securing said

bolt upon said plate in adjusted positions, substantially as and for the purposes set forth.

6. The combination, with the fixed frame and removable sash, of a thimble or socket in
 25 said frame offset from said sash, but in a plane substantially parallel with the face of the sash, a pivot-plate having slotted screw-openings secured upon the face of said sash, a bolt pivoted to and sliding upon said plate and
 30 adapted to enter said socket when the sash is in position, and means for tightening the connection between said bolt and said sash to secure said bolt in adjusted positions upon said plate and said sash within said frame, sub-
 35 stantially as and for the purposes set forth.

In testimony whereof I have hereunto set my hand this 27th day of December, 1890.

LEE HALL.

In presence of—

T. D. MERWIN,

A. MAE WELCH.