(No Model.)

W. F. McDONOUGH.

FASTENER FOR MEETING RAILS OF SASHES.

No. 306,631. Patented Oct. 14, 1884.

Fig. 1.

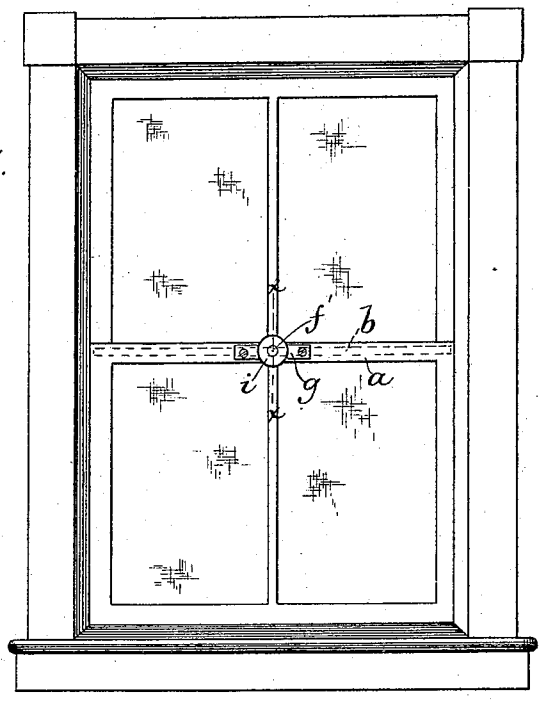


Fig. 2.

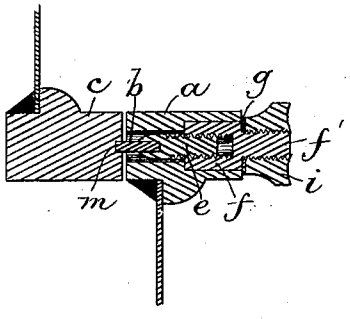
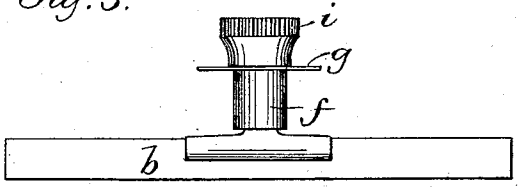


Fig. 3.



Witnesses.
H. F. Brown.
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Inventor
Wm. F. McDonough
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UNITED STATES PATENT OFFICE.

WILLIAM F. McDONOUGH, OF BOSTON, MASSACHUSETTS.

FASTENER FOR MEETING-RAILS OF SASHES.

SPECIFICATION forming part of Letters Patent No. 306,631, dated October 14, 1884.

Application filed April 28, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. McDONOUGH, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain Improvements in Sash-Fasteners, of which the following is a specification.

This invention has for its object to provide a fastener for the meeting-rails of window-sashes, adapted to prevent the sashes from being unfastened by the insertion of a knife-blade between the meeting-rails, and also to prevent the windows from rattling and prevent rain from entering between said rails.

The invention consists in the provision of a plate or bar in the upper rail of the lower sash and devices for adjusting the same so as to cause it to project from said rail and bear against the corresponding rail of the other sash when it is desired to fasten the sashes, the upper sash-rail having a groove to receive said plate when it is projected, all of which I will now proceed to describe.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents an elevation of the inner side of a window the sashes of which are provided with my improved fastener. Fig. 2 represents an enlarged section on line *x x*, Fig. 1. Fig. 3 represents a side view of the fastening-plate and its operating device removed from the sash.

The same letters of reference indicate the same parts in all the figures.

In carrying out my invention, I apply to the upper rail, *a*, of the lower sash a thin metal plate, *b*, which is placed in a longitudinal slot in said rail, and is adapted to project outwardly therefrom toward the lower rail, *c*, of the upper sash. Said plate preferably extends the entire length of the rail *a*, although it may be shorter if preferred.

To the center of the plate *b* is attached a screw-shank, *e*, which projects backwardly in an orifice in the rail *a* and enters a threaded socket in a stud, *f*. Said stud is adapted to rotate in a socket formed to receive it in the rail *a*, and is held in said socket by a plate, *g*, secured to the inner side of said rail and bearing on the end of the stud *f*, as seen in Fig. 2. The stud *f* has a threaded stem, *f'*, projecting through an orifice in the plate *g*, and provided with a rigidly-affixed knob, *i*.

It will be seen that by rotating the knob *i* the stud *f* will be also rotated, and by its engagement with the threaded shank *e* will cause said shank and the plate *b* to move out or in, according to the direction in which the knob *i* is rotated. The plate *b* can therefore be projected outwardly and caused to bear against the inner side of the rail *c*, thus exerting pressure on both sashes, which will prevent them from rattling. The rail *c* has a slot, *m*, which receives the edge of the plate *b* when the latter is projected. The two rails are thus locked together so that neither can be moved.

When it is desired to unfasten the sashes, the knob *i* may be turned to draw the shank *e* and plate *b* inwardly, thus disconnecting the meeting-rails.

The plate *b* may be projected and caused to lock the sashes when one sash or the other is partially opened, the upper sash being provided with grooves in its vertical rails to receive the plate.

It will be seen that air, dust, and wet may thus be perfectly excluded from the crevice between the meeting rails, and that unauthorized unfastening of the sashes by the insertion of a thin blade between the meeting-rails is impossible.

The operating-knob *i* may be removed from the stem *f'* when the plate *b* is projected, so that the sashes cannot be unfastened by any one not provided with said knob or a duplicate of it, thus preventing the unfastening of the sashes from without by breaking the glass and reaching in to operate the knob.

I claim—

1. A sash-fastener composed of a plate, *b*, placed in a slot in the upper rail of the lower sash, and an operating device, whereby said plate may be projected and pressed against the upper sash, as set forth.

2. The combination of the sash-rail *a*, the plate *b*, placed longitudinally in said rail, and provided with the threaded shank *e* and the screw-socketed stud *f*, journaled in the rail *a*, and provided with an operating-handle, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 26th day of April, 1884.

WILLIAM F. McDONOUGH.

Witnesses:
C. F. BROWN,
A. L. WHITE.