(No Model.)

F. STAMM.

FASTENER FOR MEETING RAILS OF WINDOWS.

No. 357,943. Patented Feb. 15, 1887.

Fig. 1.

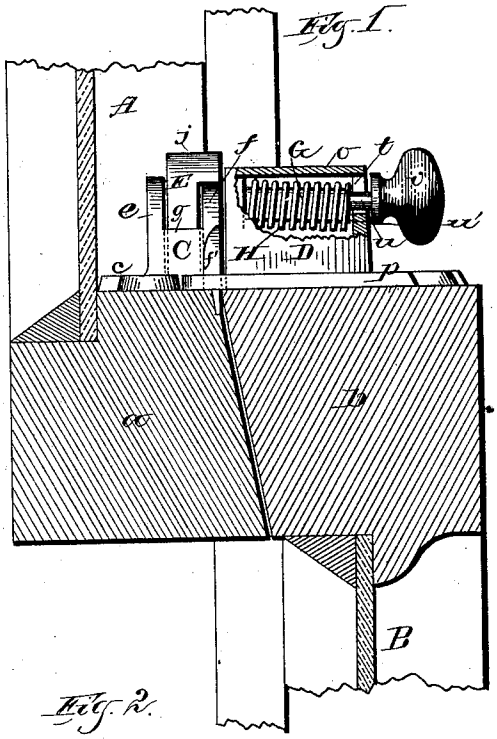


Fig. 3.

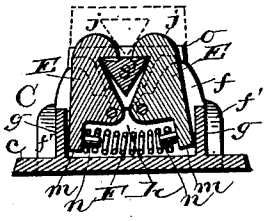


Fig. 4.

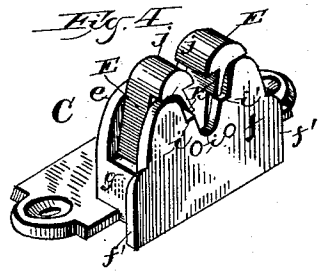


Fig. 2.

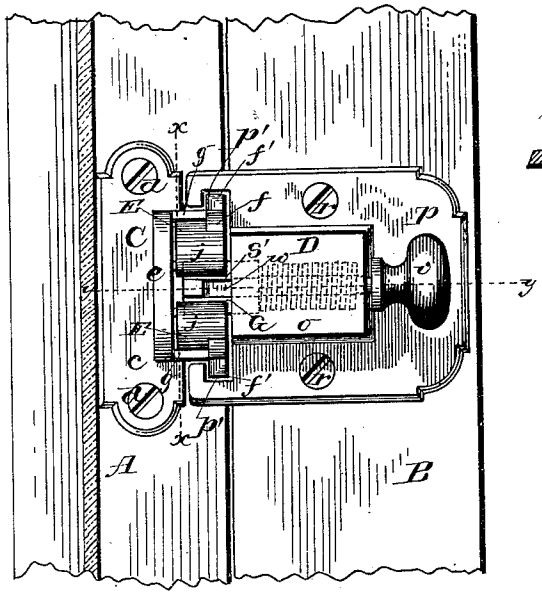


Fig. 5.

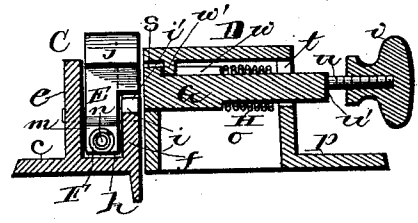
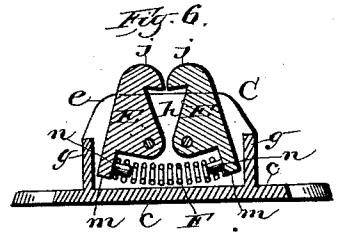


Fig. 6.



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UNITED STATES PATENT OFFICE.

FERDINAND STAMM, OF MILWAUKEE, WISCONSIN.

FASTENER FOR MEETING-RAILS OF WINDOWS.

SPECIFICATION forming part of Letters Patent No. 357,943, dated February 15, 1887.

Application filed October 26, 1886. Serial No. 217,214. (No model.)

To all whom it may concern:

Be it known that I, FERDINAND STAMM, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Sash-Fasteners; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to sash-fasteners; and it consists in certain peculiarities of construction, as will be hereinafter described with reference to the accompanying drawings, and subsequently claimed.

In the drawings, Figure 1 represents a sectional view illustrating the meeting-point of two opposing sashes and my invention in operative position; Fig. 2, a plan view of the same; Fig. 3, a transverse section of my device, taken on line *x x*, Fig. 2; Fig. 4, a perspective view showing that part of my fastener that is generally secured to the upper sash of a window; Fig. 5, a vertical longitudinal section of the entire fastener, taken on line *y y*, Fig. 2; and Fig. 6, a view similar to Fig. 3, with the latch-heads in impingement one with the other.

Referring by letter to the drawings, A represents the upper, and B the lower, sash of a window, to the meeting-rails *a b* of which are fastened by screws or other suitable means the respective sections C D of my fastener.

The fastener-section C consists of a base-plate, *c*, in which are the apertures for the screws *d*, that secure it to the lower rail, *a*, of the top sash, A, and flanges *e f*, united by webs *g* to form an open chamber, *h*, the flange *f* being provided with a central seat, *i*, that has shoulders *i'*. The flange *f* is vertically extended below the base-plate *c* to come against the adjacent side of said sash-rail, and horizontally extended beyond the webs *g* to form guides *f'*, the purpose of which will be hereinafter set forth.

Eccentrically pivoted to the flanges *e f* on the base-plate *c*, so as to operate in the open chamber *h*, are latches E, the heads *j* of which are rounded and laterally extended to come over the upper edge of the latter flange.

To increase the bearing-surface of the body portions of the latches, I provide the same, just below their heads, with lateral webs *k*, that extend down as far as the shoulders *i'* of the flange *f*, forming the rear wall of the chamber for said latches. The lower ends, *m*, of the latches are cut away and provided with inwardly-projecting pins *n*, that engage a spiral spring, F, the expansive force of the latter serving to normally retain the heads *j* of said latches in impingement with each other, as shown by Fig. 6, or nearly together, as shown by Fig. 4.

The fastener-section D consists of a housing, *o*, having a flanged base, *p*, in which are apertures for screws *r*, that secure it to the top rail, *b*, of the lower sash, A. The front wall of the housing *o* is provided with a suitable opening, *s*, that forms the seat and guide for the triangular head *s'* of a bolt, G, and the rear wall of said housing is also provided with an opening, *t*, for the passage of the bolt-stem *u*, the latter being provided with a suitable handle or knob, *v*. The triangular head *s'* of the bolt G is provided with a recess, *w*, that engages a stop, *w'*, vertically depending from the top of the housing to limit the rearward movement of said bolt. A spring, H, is arranged on the bolt-stem *u*, and by its expansive force keeps the head of said bolt normally beyond the front wall of the housing, as best shown by Fig. 2. The flanged base *p* of the housing *o* extends beyond the front wall of the latter, and is cut away to form recesses *p'*, that engage the guides *f'* on the flange *f* of the fastener-section C when the meeting-rails *a b* of the sashes A B come together.

In the operation of my invention, supposing the sashes to be in the position shown by Figs. 1 and 2, the bolt G is drawn back to disengage its head from the latches E, and at the same time the spring F causes these latches to assume the position shown by and described in connection with Figs. 4 and 6, according to the play of said spring, said sashes being now free for movement in the ways of their frames. When the rail *b* of the sash B has passed the rail *a* of the sash A the spring H actuates the bolt G to bring the triangular head *s'* to its normal position beyond the front wall of the housing *o*, and the recesses *p'* in the flange *p* of said housing pass out of engagement with the guides *f* on the fastener-section C. In closing the window the meeting-rails of

the sashes come together, and the recesses p' in the flange p of the fastener-section D engage the guides f' on the section C, the latches E being spread apart by the triangular part s' of the bolt G until their heads j are passed, when by the action of the spring F these heads are brought toward each other to engage said part of the bolt.

The engagement of the bolt and latches serves to automatically lock the sashes in their closed position, while the engagement of the recesses in one fastener-section with the guides of the other prevents said sashes from rattling.

It will be noticed that the bolt-stem u is offset at u', and when the head of the bolt is in engagement with the latches this offset comes inside of and drops below the opening in the rear wall of the housing o, said wall acting as a stop to prevent the bolt from being forced back by an implement inserted from the outside between the meeting-rails of the sashes, and thus my device is made burglar-proof.

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

1. A sash-fastener consisting of two opposing sections, one section provided with pivoted latches having their heads normally held nearly or quite together, and suitable guides, and the other section provided with a draw-bolt, the head of which is normally held in the way of the latch-heads to automatically spread apart and engage the same, and recesses arranged to engage the guides of the former section, substantially as and for the purpose set forth.

2. A sash-fastener consisting of two opposing sections, one of the sections provided with pivoted latches and the other section with a housing having suitable openings, a draw-bolt having a suitable head to engage the latches, and an offset stem, substantially as and for the purpose set forth.

3. A sash-fastener consisting of two opposing sections, one of the sections having an open chamber the front wall of which is provided with a suitable seat and shoulders, latches eccentrically pivoted in the chamber and having laterally-extended heads and webs, and the other section provided with a draw-bolt, the head of which engages the latches, substantially as and for the purpose set forth.

4. A sash-fastener consisting of two opposing sections, one of the sections having an open chamber the rear wall of which is provided with a suitable seat, latches eccentrically pivoted in said chamber, and a spring arranged to normally hold the heads of these latches nearly or quite together, the other section having a housing the front and rear walls of which are provided with suitable openings, a draw-bolt having its bearings in said openings and provided with a triangular head to engage the latches, and an offset stem, and a spring arranged to normally hold the bolt-head in position to spread apart and engage said latches, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

FERDINAND STAMM.

Witnesses:
H. G. UNDERWOOD,
MAURICE F. FREAR.