

J. BENSON.
Fastener for Meeting Rails of Sashes.

No. 212,431.

Patented Feb. 18. 1879.

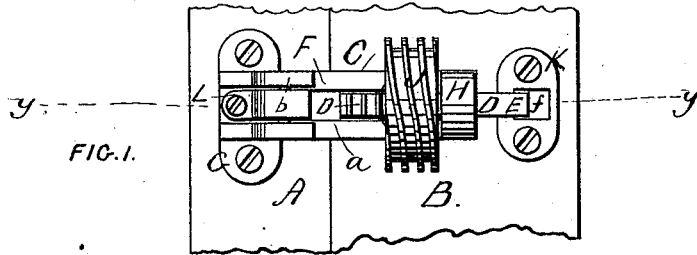


FIG. 1.

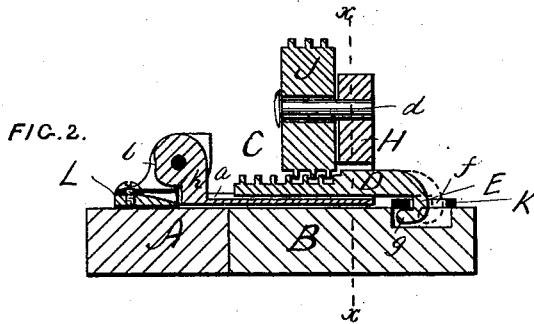


FIG. 2.

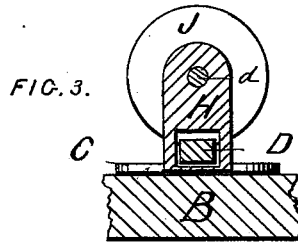


FIG. 3.

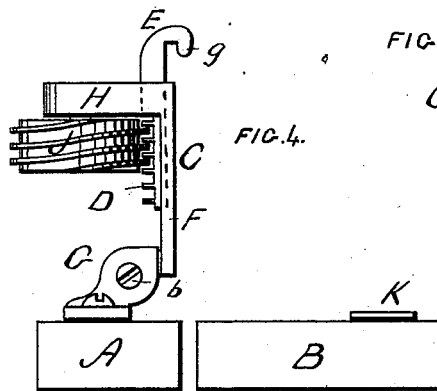


FIG. 4.

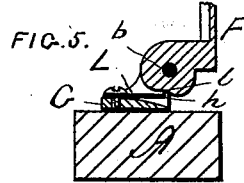


FIG. 5.

WITNESSES.

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JOSEPH BENSON, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN FASTENERS FOR MEETING-RAILS OF SASHES.

Specification forming part of Letters Patent No. **212,431**, dated February 18, 1879; application filed October 25, 1878.

To all whom it may concern:

Be it known that I, JOSEPH BENSON, of South Boston, in the county of Suffolk and State of Massachusetts, have invented a certain new and useful Improved Window-Sash Fastener, of which the following is a specification:

This invention relates to a fastener for the meeting-rails of window-sash frames, and is so constructed and arranged as to be substantially burglar-proof, and also to draw the said meeting-rails closely and hold them firmly together, thereby excluding dust and air, and preventing their rattling.

The invention consists in a sash-fastener composed of a suitable plate hinged to a sash-rail, and carrying a screw or worm arranged to move longitudinally, and a rack-bar carrying a hook adapted to engage with a catch upon the adjacent rail of the other sash.

In the accompanying plate of drawings my invention is illustrated, Figure 1 being a plan view of my improved sash-fastener, shown as attached to portions of the meeting-rails of an upper and lower window-sash frame; Fig. 2, a longitudinal vertical section on line *yy*, Fig. 1; Fig. 3, a vertical cross-section on line *xx*, Fig. 2; Fig. 4, a side view with the fastener unfastened, and Fig. 5 a view in detail.

In the drawings, A and B represent portions of the meeting-rails of the upper and lower sashes, respectively, of a window-frame; C, my improved fastener. This fastener C consists of a rack-bar, D, having on one end a hook, E, and it is adapted to slide forward and backward in a groove, *a*, in the plate F, which plate F swings vertically on a pivot or hinge, *b*, in bracket G, secured to rail A. The plate F has an upright extension, H, for a support to a journal, *d*, on which journal *d* loosely turns an endless screw or worm, J, so located and arranged as to interlock, by its threads, with the teeth of the rack-bar D. Turning this screw J in either direction moves the rack-bar D in the groove *a* in plate F.

K is a plate, secured to rail B by screws, and having a hole, *f*, in such position in front of, and relatively to, the rack-bar D and plate

F when the rails A and B are together as to receive the hook E of rack-bar D, and interlock with it when the plate F and rack-bar D are turned down, a portion of the rail B below plate K being cut away to allow for the entrance of the hook.

In the use of this fastener, the window being closed, swing the fastener down; turn the screw J in the proper direction until the hook E of rack-bar D is over the hole *f* in plate K; then, pressing it (the hook) into the hole *f*, turn the screw J in the right direction, and the bar D will then draw the two rails A and B closely and firmly, and thus hold them together, the end *g* of hook E interlocking with the plate K, thereby preventing the raising of the bar D and plate F on its hinge, as is obvious.

To unfasten, turn the screw J in the reverse direction, which will move out the rack-bar D from its interlock by its hook E with the plate K, when the plate F and rack-bar can be swung as shown in Fig. 4, so that the two sashes can be moved up and down, as desired.

When unfastened and swung up, as just described, to prevent the fastener from falling by the moving or jarring of the window-sashes, &c., a flat spring, L, may be secured to bracket G, which, by its free end *h*, enters and bears in a depression, *l*, in the end of plate F, and thus secures the fastener from any movement by reason of such jar, &c., the spring not having power sufficient, however, to interfere with the movements of the fastener when it is desired to operate it.

A fastener for window-sash frames substantially as has been herein described has many advantages, among which may be mentioned that it brings and holds the two meeting-rails closely and firmly together, preventing their rattling, and, with well-fitted joints, the entrance into the rooms of air or dust, &c., between the rails; and it is also practically burglar-proof, as it cannot be unfastened from the outside of the window with a knife-blade or thin strip of metal inserted between the rails, as is often the case with those now

in use, even if the rails should be sufficiently separated to admit of the entrance of a knife, &c.

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

A fastener for window-sash frames, composed of a plate, F, hinged to one rail, A, and

carrying a screw or worm, J, in combination with a rack-bar, D, having hook E, adapted to hook in a plate, K, secured to the other rail, B, substantially as herein described.

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Witnesses:

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