D. S. ROBERTS.

FASTENERS FOR THE MEETING-RAILS OF SASHES.

No. 187,316. Patented Feb. 13, 1877.

Fig 1.

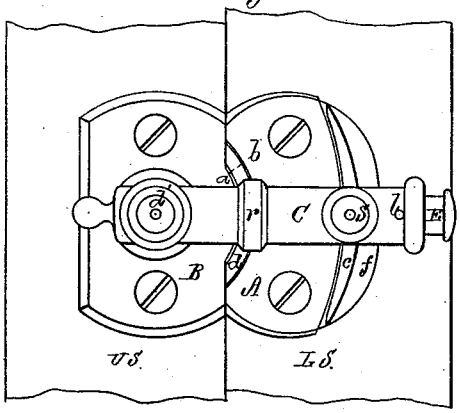


Fig 2.

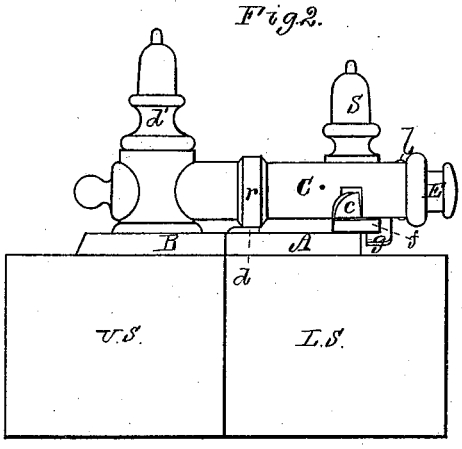


Fig 4.

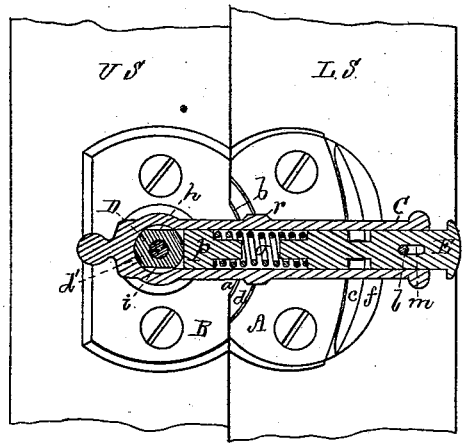


Fig 3.

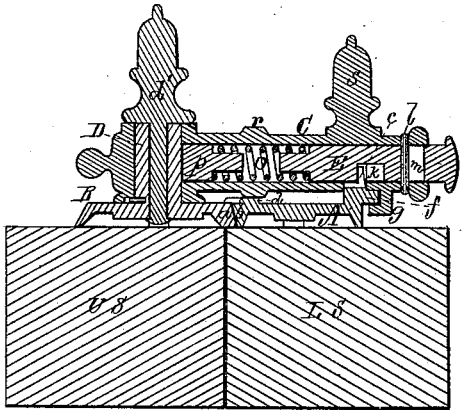


Fig 5.

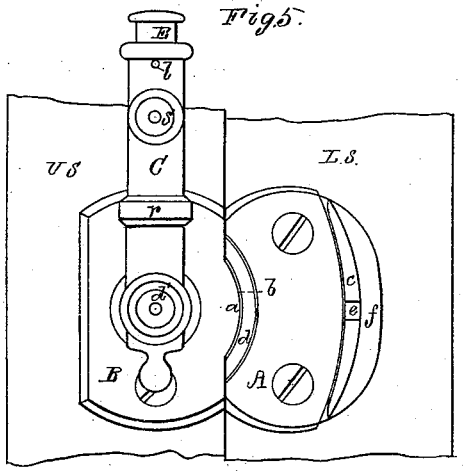
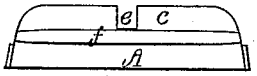


Fig 6.



Witnesses

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UNITED STATES PATENT OFFICE.

DAVID S. ROBERTS, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN FASTENERS FOR THE MEETING-RAILS OF SASHES.

Specification forming part of Letters Patent No. **187,316**, dated February 13, 1877; application filed September 11, 1876.

To all whom it may concern:

Be it known that I, DAVID S. ROBERTS, of Boston, of the county of Suffolk and State of Massachusetts, have invented a new and useful or Improved Sash-Fastening; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a side elevation, and Fig. 3 a longitudinal section, and Fig. 4 is a horizontal section, of it as it appears with the catch or swinging lever locked. Fig. 5 is a top view of it with the catch or lever thrown back or unlocked. Fig. 6 is a front elevation of the front catch-plate, showing its locking-notch.

The invention consists in the novel construction and arrangement of a tubular catch or swinging lever carrying a lock-bolt, slide, and spring, and combined with pivot and notched flange-plates, as will be hereinafter more fully described, and definitely claimed.

In the drawings, A and B are two plates, which are to be fixed by screws upon two sashes, V S L S. The rearmost of the said plates B is provided at its front with a curved projection, *a*, to enter a corresponding recess, *b*, formed in the rear edge of the front-plate A. Such projection and recess are to duly centralize the two sashes, or bring them into suitable positions for being locked. The front plate has two curved ribs or flanges, *c d*, elevated upon it, one being at its front and the other at or near its rear edge. In the front flange *c*, and at its middle, is a notch, *e*. There projects from the flange *e* a horizontal flange, *f*, which is to operate with the hook *g* of the swinging catch C. This catch, arranged as shown, is so applied to the back plate B as to be capable of turning upon a standard or pivot, *d'*, erected thereon, such pivot at its junction with the catch or swinging lever C having flat faces *h i*, arranged as shown in Fig. 4.

The catch or swinging lever C is tubular, and carries a slide-bolt, E, notched as shown at *k*, and projecting beyond the outer end of the catch, in manner as represented. A pin, *l*, going down through the catch, and a slot, *m*, in the bolt, serve to keep the latter in the catch, against the pressure of a helical spring, *o*, arranged therein. This spring is dropped between the bolt and a slide, *p*, the latter being arranged within the catch, and against the pivot thereof. The spring performs two functions—that is, it presses the slide backward and the bolt forward. The catch has a projection, *r*, to rest upon the top of the curved flange *d* when the catch is locked to the flange *c*. The projection *r* and the flange *d* aid in sustaining the weight of the upper sash, and in preventing the catch and its hook from being bent out of their normal positions by the downward pressure of the said sash. A knob or projection, *s*, erected on the catch or swinging lever, or arranged in it in manner as shown, serves as a rest for the forefinger of a person's hand, while with the thumb he may be pushing the bolt inward. It also answers as a handle, to facilitate the movements of the catch. On the catch or swinging lever being turned nearly back either way, the spring acting against the slide, and forcing it against one of the flats *h i*, will cause the catch to be moved wholly back, and to be held in such position, in order that it may be out of the way of the lower sash, or not be injured thereby, while the upper sash may be in the act of being depressed, or the lower sash of being raised. On turning the catch or swinging lever around over the notch of the catch-plate the bolt will be shot into such notch, and the two will serve to prevent the catch from being moved either way on its pivot.

I claim as my invention—

The catch or swinging lever C, provided with the locking-bolt E, the slide *p*, and the spring *o*, arranged between and applied to them, as shown, in combination with the pivot D, having the flats *h i'*, and with the front plate A, provided with the notched flange *c*, all being constructed, arranged, and operated substantially as set forth.

DAVID S. ROBERTS.

Witnesses:

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