H. P. ANDREWS.

FASTENERS FOR MEETING-RAILS OF SASHES.

No. 192,614. Patented July 3, 1877.

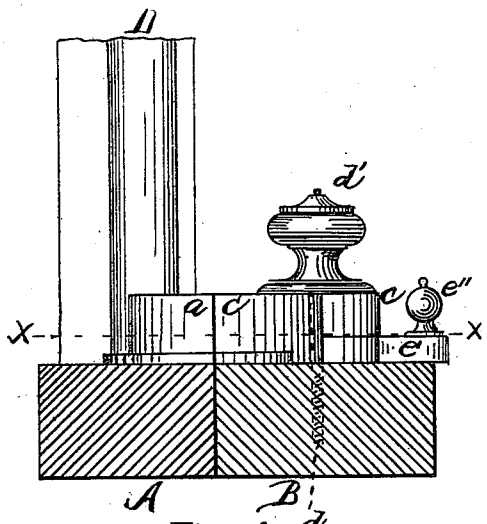


Fig. 1.

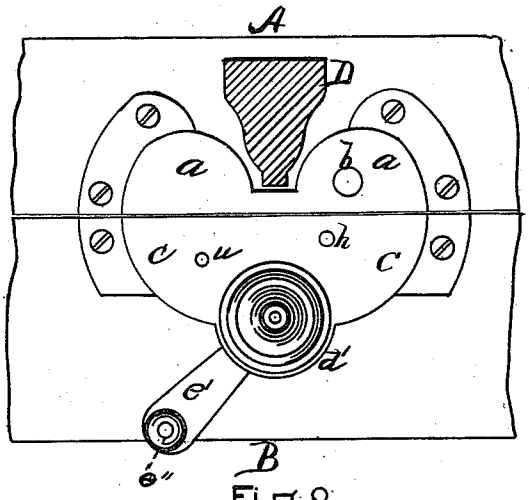


Fig. 2.

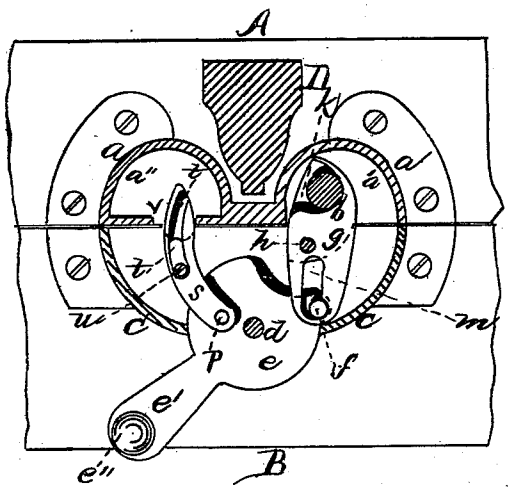


Fig. 3.

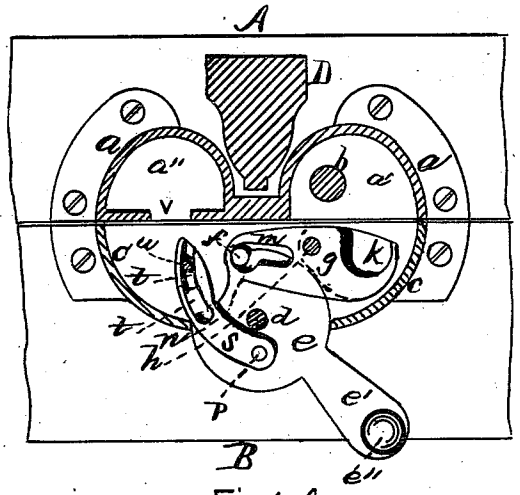


Fig. 4.

WITNESSES

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IMPROVEMENT IN FASTENERS FOR MEETING-RAILS OF SASHES.

Specification forming part of Letters Patent No. **192,614**, dated July 3, 1877; application filed May 25, 1877.

To all whom it may concern:

Be it known that I, HEZEKIAH P. ANDREWS, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Sash-Fasteners, which improvement is fully set forth in the following specification and accompanying drawing, in which—

Figure 1 is a side elevation of my sash-fastener in position for use. Fig. 2 is a plan view of the same as it appears when locked. Fig. 3 is a horizontal section upon line *x x*, Fig. 1, in the position assumed when fastened. Fig. 4 is a similar section unfastened.

Similar letters of reference indicate corresponding parts.

In this invention the locking device and the handle or lever for operating the same are placed directly opposite or in front of the central bar or mullion in the upper sash without impairing the integrity of said bar, or cutting into it or altering it in any manner, or changing its position.

The nature of my invention consists in the novel combination, arrangement, and construction of the different parts contained and operating in the two boxes, as will be hereinafter more fully described and claimed.

A and B represent the meeting rails of the sashes, the former being of the upper and the latter of the lower sash. D is the central bar or mullion of the upper sash.

a is a metallic box, screwed to the rail A by means of a suitable flange, and provided with two chambers, *a' a''*. This box extends upon both sides and in front of the bar D, and is partitioned, as shown in Figs. 3 and 4. Within the chamber *a'*, projecting downward from the roof thereof, is a post, *b*.

c is a metallic box attached through its flanges to the rail B opposite the box *a*. A screw or equivalent device, *d*, passes through the box *c* into the rail B, and is usually surmounted by an ornamental head or knob, *d'*.

e is a disk extending into a handle at *e'*, which is provided with a knob, *e''*, by means of which the said disk is partially rotated upon the screw *d*, a portion of the side or wall of the box *c* being removed for the purpose of allowing such rotation.

f is a pin fixed in the disk-wheel *e*, and playing in the slot in the catch-bolt *g*. This catch-bolt *g* is pivoted to and turns upon the pin *h* projecting downward from the roof of the box *c*, and is provided with a recess, *k*, fitting around and under the post *b*.

When the handle *e'* is carried toward the left, *i. e.*, from the position shown in Fig. 4 to that shown in Fig. 3, the disk *e* rotates, and the pin *f* in the slot *m* turns the catch-bolt *g* until the recess *k* fits around and under the post *b*, thus locking the window. When the fastener is in that position the pin *f* slips into a small niche or recess, *n*, Fig. 4, thus preventing the bolt from being pushed back by any agency not caused by the motion of the handle *e'*.

Attached to the disk-wheel *e* by means of the pin *p* is the bayonet-bolt *s*, provided with a longitudinal slot or groove, *t*. The pin *u* fixed to the roof of the box *c* lies in this groove *t*.

When the handle *e'* is carried to the left, the bayonet-bolt *s*, forced by the pin *p*, and guided by the pin *u* in its groove *t*, passes through the opening *v* and enters the chamber *a''* in the box *a*. This bolt *s* is not absolutely necessary to the invention, as the window is securely locked by the bolt *g*. It, however, aids the bolt *g*, affords additional security, provides a bolt upon both sides the bar D, and, so to speak, balances the fastener, making it more complete, and more smoothly and evenly operated.

It will thus be seen that a sash-fastener is provided which is easily worked, is sure in its operation, cannot be broken or put out of repair by any fair usage, and is placed directly in front and on both sides of the central bar in the upper sash without altering its shape or position.

Of course there is opportunity for minor alterations and variations in the details of this invention, such as the substitution of a

groove in place of the slot *m*, or the deepening of the recess *k*, so as to penetrate the bottom of the bolt *g*, &c., but they do not alter the general plan of the invention.

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

1. In combination with the disk-wheel *e*, provided with the pin *f*, the catch-bolt *g*, turning upon the pin *h*, and provided with the recessed slot *n m*, and the recess *k*, arranged to catch upon the post *b*, substantially as and for the purpose above described.

2. In combination with the disk-wheel *e* and pins *p* and *u*, the slotted or grooved bayonet-bolt *s*, arranged to enter the chamber *a''* through the opening *v*, substantially as and for the purpose herein specified.

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Witnesses:

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