

E. K. BRECKENRIDGE.

FASTENERS FOR THE MEETING-RAILS OF SASHES.

No. 170,047.

Patented Nov. 16, 1875.

Fig. 1.

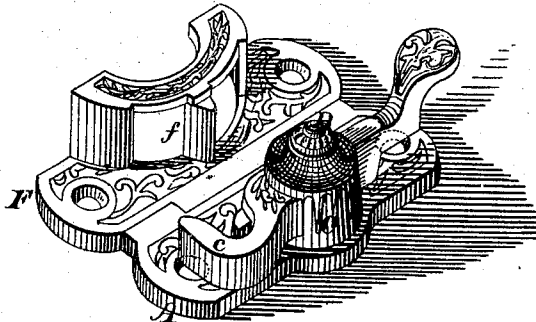
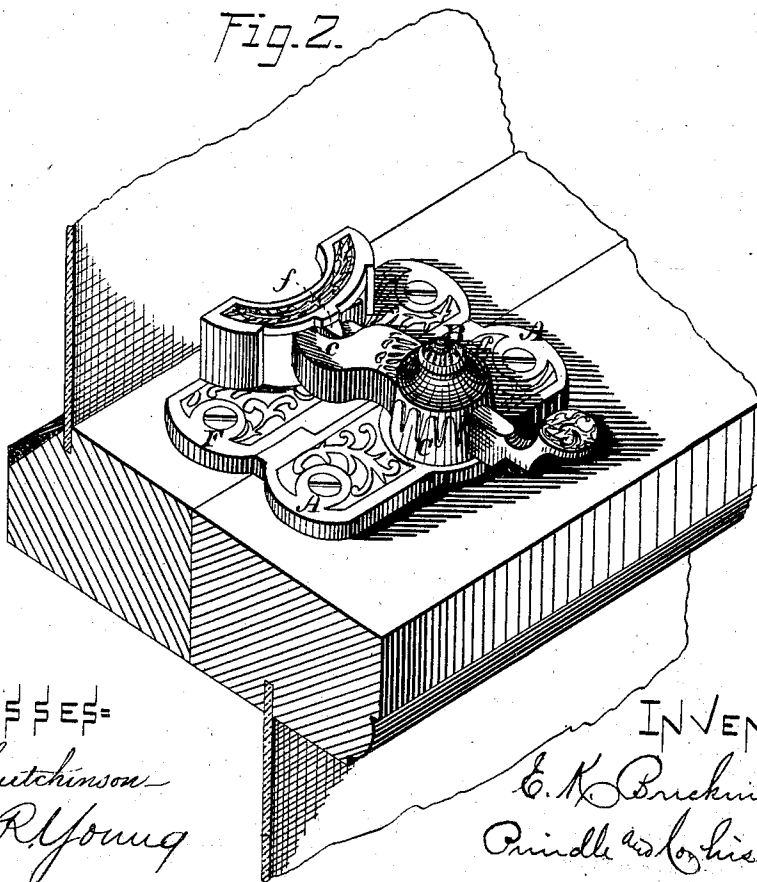


Fig. 2.



WITNESSES=

Jack Hutchinson
John R. Young

INVENTOR.

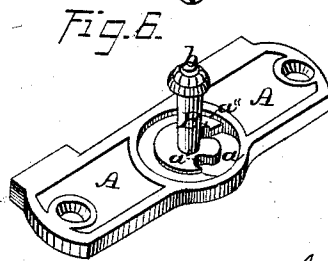
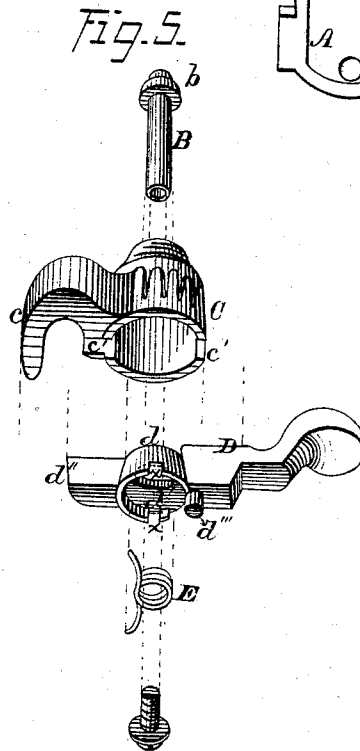
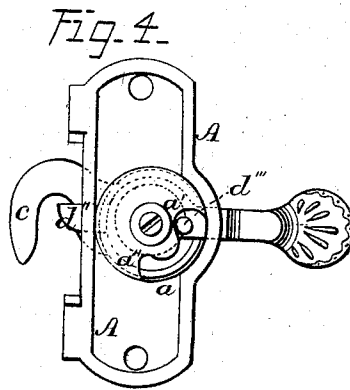
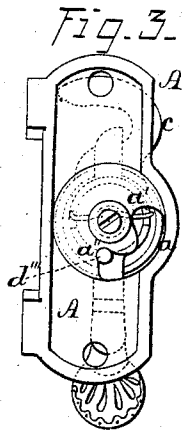
E. K. Breckinridge, by
Orville H. L. H. Attys

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E. K. Breckinridge, by
Orindle and his Attys

UNITED STATES PATENT OFFICE.

ELIAS K. BRECKENRIDGE, OF WEST MERIDEN, CONNECTICUT.

IMPROVEMENT IN FASTENERS FOR THE MEETING-RAILS OF SASHES.

Specification forming part of Letters Patent No. **170,047**, dated November 16, 1875; application filed October 21, 1875.

CASE B.

To all whom it may concern:

Be it known that I, ELIAS K. BRECKENRIDGE, of West Meriden, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Fasteners for the Meeting-Rails of Sashes; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of my improved device detached from a window and unlocked. Fig. 2 is a like view of the same in place and locked. Figs. 3 and 4 are plan views of the lower side of said device, showing the locking-bar in its different positions, and Figs. 5 and 6 are perspective views of the different parts of my device separated from each other.

Letters of like name and kind refer to like parts in each of the figures.

The design of my invention is to increase the safety and efficiency of devices employed for locking together the meeting-rails of window-sash; and it consists, principally, in combining, with a horizontally-swinging arm, which is pivoted upon a base-plate attached to the lower sash, and engages with a striking-plate attached to the upper sash, a locking-bolt, that automatically engages with said striking-plate and locks said swinging arm in engagement therewith, substantially as and for the purpose hereinafter specified. It consists, further, in combining, with a horizontally-swinging arm that is pivoted upon a base-plate attached to the lower sash, and engages with a striking-plate attached to the upper sash, a locking-bolt that engages with said striking-plate and, by means of a stud, with suitable recesses within said base-plate, and locks said swinging arm in position when opened and closed, substantially as and for the purpose shown. It consists, finally, in the peculiar construction of the spring, and its combination with the swinging arm and locking-bolt, substantially as and for the purpose hereinafter set forth.

In the annexed drawings, A represents the base-plate of my device, constructed with the form shown in Fig. 6, and provided with a

central stud, B, that extends vertically upward. Pivoted upon the stud B is a sweep, which, as seen in Fig. 5, consists of a hollow hub or housing, C, that incloses said stud and extends between its head *b* and the base-plate A, and an arm, *c*, which extends horizontally outward from one side of said hub, and has the form, in plan view, of a hook. Passing horizontally through the walls of the hub C is a recess, *c'*, which is open at its lower side and receives a bolt, D, that has the form shown in Fig. 5, and loosely fills said recess laterally and vertically. The portion *d* of the bolt D that is contained within the central portion of the hub C is enlarged and substantially circular in plan view, and has a central opening, *d'*, that receives the stud B, and is lengthened so as to permit said bolt to be moved longitudinally, for which purpose said enlarged portion *d* is considerably smaller than the space within said hub. The end of the bolt D opposite to the hook *c*, extends outward sufficiently to enable it to be grasped by the hand, while its opposite end *d''* is beveled like a latch, and, when said bolt is moved forward to its farthest limit, projects about one-half the distance across the space within said hook. The lower side of the central portion *d* of the bolt D is recessed out, and within such recess, around the stud B, is coiled a spring, E, the ends of which project laterally outward, and are contained within transverse notches *x x*, that are formed within the lower side of said part *d*. Said spring is so arranged as to press said bolt in a forward inward direction. Upon the lower side of the bolt D, at or near the outer edge of its enlarged center *d*, is a stud, *d'''*, which extends downward into an opening, *a*, that is formed within the base-plate A, and has such length as to permit said bolt and the sweep C *c* to be turned one-fourth of a revolution upon or around the stud B. The inner side of the opening *a* is provided at its ends with two semicircular recesses, *a'* and *a''*, within one of which the stud *d'''* is contained whenever the sweep is at either limit of its motion, the effect of such arrangement being to lock the latter in position, except when the bolt D and said stud *d'''* are drawn outward, or suffi-

cient force is exerted laterally upon said bolt to cause said stud to be pressed outward by the sloping sides of said recesses. The striking-plate F, having the form shown, is provided with a vertical bar, *f*, that extends between its upper and lower portions, and around which the hooked arm *c* of the sweep passes when it is desired to lock the sash together. The front side of said bar has, horizontally, the reverse shape of the inner end *d'* of the bolt D, so that when said sweep is moved into engagement with said bar said bolt will be pressed outward until it has passed the latter, when said bolt will spring inward to the position shown in Fig. 2, and effectually lock said parts in relative position.

The device, which is now complete, is operated by first pulling outward upon the bolt, so as to release the same from engagement with the base and striking-plates, and then using said bolt as a means for swinging the sweep to the desired position, after which, by releasing said bolt, it will automatically lock said parts in place.

Having thus fully set forth the nature and merits of my invention, what I claim as new is—

1. In combination with the sweep C *c*, piv-

oted upon the base-plate A, and engaging with the bar *f* of the striking-plate F, the locking-bolt D *d''*, working longitudinally within said sweep, and engaging automatically with said bar *f*, in the manner and for the purpose substantially as specified.

2. In combination with the sweep C *c*, pivoted upon the base-plate A and engaging with the bar *f* of the striking-plate F, the locking-bolt D *d''*, working longitudinally within said sweep, engaging with said bar *f*, and provided with a stud, *d'''*, which engages with the recesses *a'* and *a''* of said base-plate, substantially as and for the purpose shown.

3. In combination with the central portion *d* of the bolt D, and with the stud B, the spring E, encircling said stud, having its ends contained within the transverse notches *x x* of said part *d*, and operating to move said bolt longitudinally, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 30th day of September, 1875.

ELIAS K. BRECKENRIDGE.

Witnesses:

E. A. MERRIMAN,
THOMAS KENYON.