A. W. LOZIER.
Sash-Fasteners.

No. 199,916. Patented Feb. 5, 1878.

Fig: 4

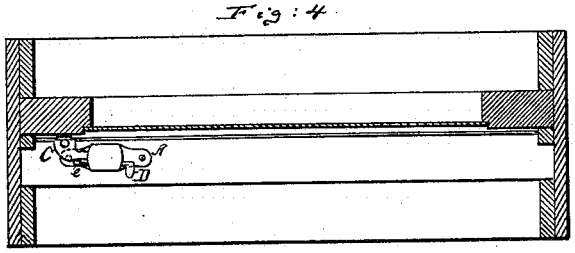


Fig: 5

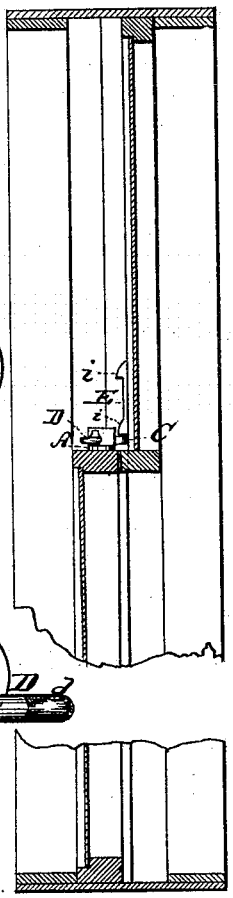


Fig: 1

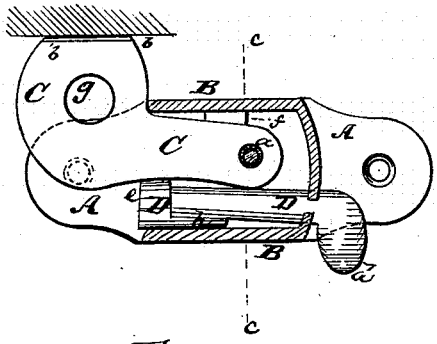


Fig: 2

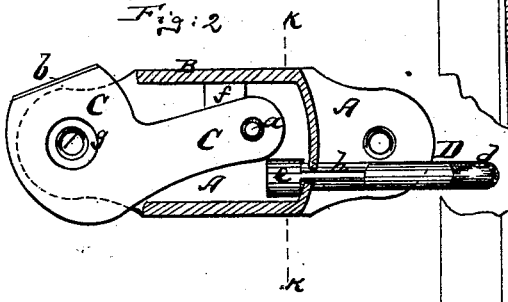


Fig: 3

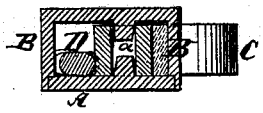
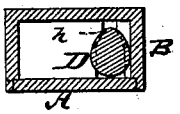


Fig: 6



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UNITED STATES PATENT OFFICE.

ABRAHAM W. LOZIER, OF NEW YORK, N. Y., ASSIGNOR TO RICHARD G. GNADE, OF RUTHERFORD PARK, N. J.

IMPROVEMENT IN SASH-FASTENERS.

Specification forming part of Letters Patent No. **199,916**, dated February 5, 1878; application filed June 30, 1877.

To all whom it may concern:

Be it known that I, ABRAHAM W. LOZIER, of New York city, in the county and State of New York, have invented a new and Improved Window-Sash Fastener, of which the following is a specification:

Figures 1 and 2 represent top views, partly in section, of my improved window-sash fastener, showing it in different positions. Fig. 3 is a cross-section on the line *c c* of Fig. 1. Fig. 4 is a top view of the same on a reduced scale, showing it attached to a window-sash. Fig. 5 is a side view thereof, showing it also attached to a window-sash. Fig. 6 is a cross-section on the line *k k*, Fig. 2.

Similar letters of reference indicate corresponding parts in all the figures.

This invention relates to a new device for locking window-sashes in any desired position, and is intended to be used at the side of the sash, either alone or in connection with the ordinary center sash-fasteners; but my invention is also applicable as a center sash-fastener on sashes which are divided in the middle.

My invention consists of the peculiar construction and novel combination and arrangement of parts, hereinafter more fully described and claimed.

The letter A represents the base-plate of my improved sash-fastener. From it projects a box, B, which is, or can be, covered on top, as indicated in Figs. 3 and 6. Within this box, which is open at one end, is pivoted, by a pin, *a*, a lever, C, which extends through said open end of the box, and which, when the plate A is screwed upon the top rail of the lower sash, faces the side rail, or any other upright rail of the upper sash, as indicated in Fig. 4. That portion of the lever C which faces the upper sash may be lined with rubber, as indicated at *b*, in Figs. 1 and 2. Through the other end of the box B is inserted a sliding bolt, D, which has at its outer end a handle, *d*, and at the other end a cam or eccentric, *e*. *f* is a spring which bears against the lever C, and tends to throw the same off the upper sash, as in Fig. 2, whenever the bolt D is drawn out, as is also shown in Fig. 2. That portion of the lever C which faces the cam *e* widens toward its outer free end, so as to present a gradual wedge-surface to the advancing movement of the cam *e*.

When the sashes are to be locked, the bolt D is pushed into the box B, as far as it will easily go, against the wedge-shaped edge of the lever C, and then turned to cause the eccentric *e* to crowd the lever C firmly against the upright face of the upper sash, as indicated in Fig. 1.

The lever C has an aperture, *g*, through it, which aperture, when the lever is in the position shown in Fig. 2, is directly above one of the screw-holes of the plate A, to allow the convenient application of the screw by which the plate is fastened to the lower sash.

The bolt D has a projecting rib, *h*, along part of its length, which rib fits into a corresponding groove at the outer end of the box B, and prevents the bolt from being turned unless it is first pushed into the box.

To the upright of the upper sash I prefer to fasten a plate, E, which has two or more projecting lugs, *i i*. Under either of these lugs the lever C can be locked, and I am thus enabled to lock the sash in what is termed the ventilating position—that is to say, when the upper sash is partly lowered.

I claim as my invention—

1. The combination of the plate A and box B with the vibrating lever C, and with the sliding bolt D, which moves in an oblique direction against the exposed face of the lever, substantially as herein shown and described.

2. The bolt D, made with the eccentric *e*, and with the projecting rib *h*, and combined with the box B and with the lever C, to operate substantially as herein shown and described.

ABRAHAM W. LOZIER.

Witnesses:

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