(No Model.)

L. C. BALDWIN.

WINDOW FASTENING.

No. 342,774. Patented June 1, 1886.

Fig. 1

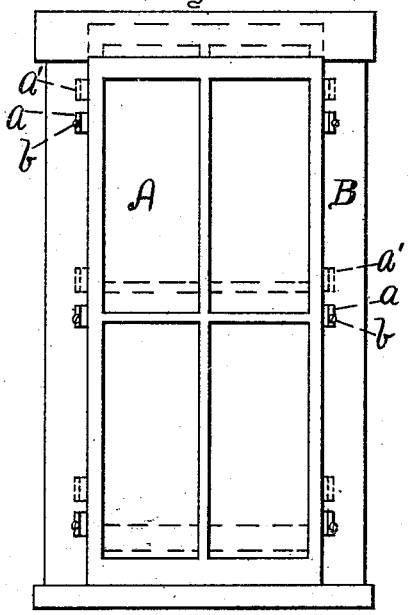


Fig. 2.

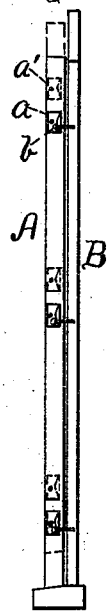


Fig. 5.

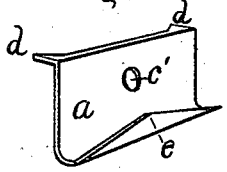


Fig. 3.

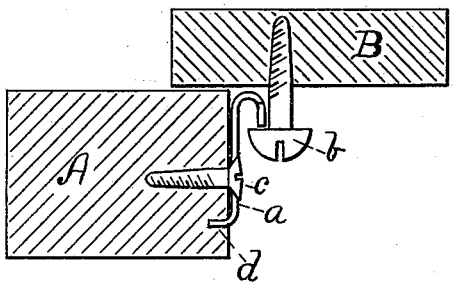
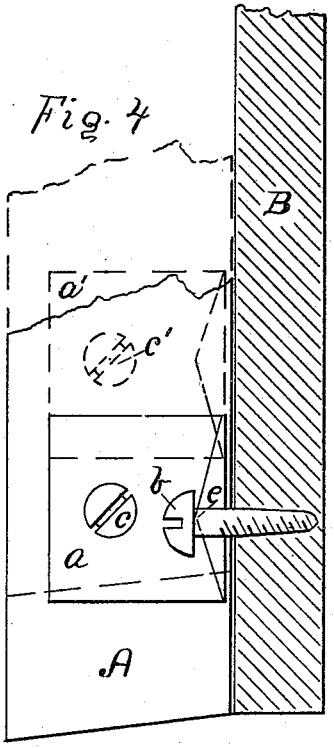


Fig. 4



Witnesses.
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UNITED STATES PATENT OFFICE.

LUTHER CHASE BALDWIN, OF MANCHESTER, NEW HAMPSHIRE.

WINDOW-FASTENING.

SPECIFICATION forming part of Letters Patent No. 342,774, dated June 1, 1886.

Application filed September 12, 1885. Serial No. 176,978. (No model.)

To all whom it may concern:

Be it known that I, LUTHER CHASE BALDWIN, a citizen of the United States, residing at Manchester, in the county of Hillsborough and State of New Hampshire, have invented certain new and useful Improvements in Fastenings for Outside Windows, of which the following is a specification.

My invention relates to improvements in window-sash which are usually fastened upon the outside of the windows of buildings during cold weather for the purpose of retaining the heat within.

My device greatly lessens the labor of putting on and removing the outer sash, and is very simple, cheap, and durable.

The following is a specification of my invention, reference being had to the drawings accompanying and forming a part of this specification.

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

Figure 1 is a front elevation of a window-frame with outside sash held in position by my device. Fig. 2 is a side elevation of the same. Fig. 3 is a cross-section, on a much larger scale, through one side of the casing, showing one of my fastenings in place. Fig. 4 is a vertical section of a portion of casing at the edge of the outer sash and gives a front view of one of the fastenings. This also is on a much larger scale than Figs. 1 and 2. Fig. 5 is a perspective view of one of the fastenings, drawn nearly full size.

The best way of putting my invention in practice now known to me is to take hoop or strap iron, and having cut it in pieces of the required shape, bend them in the form shown in Fig. 5.

d d are points to be driven into the wood of the sash in order to hold the fastener in position more firmly, said fastener being secured by a screw through the hole *c'*. The lower end of the piece is curved, as shown in Fig. 5, and is of the right shape to form a cam or double wedge having its highest point at *e*.

The required number of these fasteners are put upon each edge of the sash in such position that the iron will not project below the wood of the sash, (see Fig. 3,) the points *d* being driven firmly into the wood. The sash is now ready to be fastened to the window, which is done by placing it against the window-casing, the bottom of sash resting upon the window-sill, as shown in Figs. 1 and 2. While in this position the retaining-screws *b*, which are square under the head, are fastened in the casing, one screw for each fastener, said screws being placed at or a little below the highest point of the cam and close to the iron, so that when the screw is turned into the casing its head engages the edge of the cam and draws the sash A tightly against the casing B. (See Fig. 3.)

When it is desired to remove the sash, it is lifted vertically to the position shown by the dotted lines in the several figures, which disengages the cams from the heads of the retaining screws *b*, so that the sash may be removed without removing said retaining-screws.

When it is desired to replace the sash, it is placed against the casing B in the position indicated by the dotted lines, and then forced downward against the window-sill. The cam-shaped edge of the device *a* passes behind the head of the retaining-screw *b*, and wedges the sash A firmly against the casing B and holds it securely in position.

The retaining-screws are left in the casing, and the device *a* is left on the sash, so that the sash may be put on or removed at will without the labor of putting in or removing screws, as is now commonly done.

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

1. In outside sash-fastenings, the device *a*, having its lower edge formed in the shape of a cam and its upper corners adapted to enter the sash and keep said device from turning when held in place by the screw *c*, all as shown, and for the purpose set forth.

2. In outside window-fastenings, the combination of the sash A and the device *a* with the window-casing B and the retaining-screw *b* in such manner that by raising and lowering the sash A said sash may be secured to or removed from said casing by the engaging and disengaging, respectively, of the cam-shaped edge of the device *a* and the retaining-screw *b*, substantially as specified, and for the purpose set forth.

LUTHER CHASE BALDWIN.

Witnesses;

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CORA M. DEARBORN.