

A. J. CHASE.
SASH CORD FASTENER.

No. 179,160.

Patented June 27, 1876.

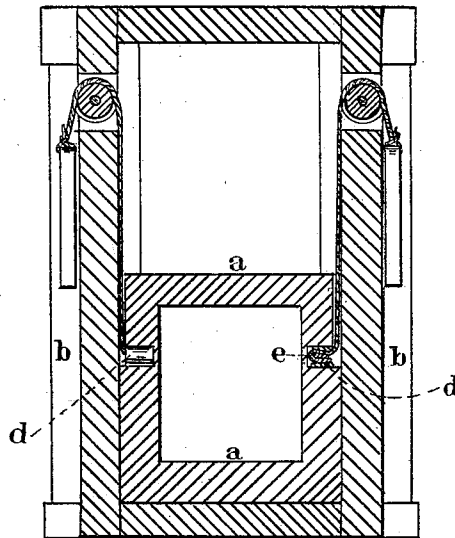


Fig. 1.

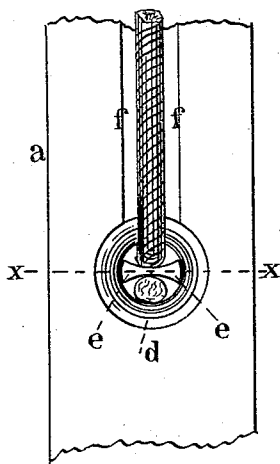


Fig. 2

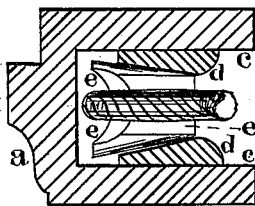


Fig. 4

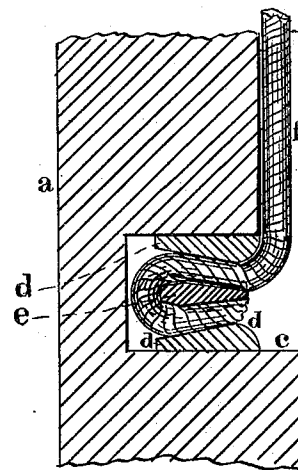


Fig. 3.

WITNESSES

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UNITED STATES PATENT OFFICE.

ANDREW J. CHASE, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN SASH-CORD FASTENERS.

Specification forming part of Letters Patent No. **179,160**, dated June 27, 1876; application filed November 8, 1875.

To all whom it may concern:

Be it known that I, ANDREW J. CHASE, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and valuable Improvement in Devices for Attaching the Cords to Window-Sashes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

By means of this invention the hanging of the sash is so simplified that it may be easily removed at any time for purposes of repairing and cleaning, and its first hanging be rendered easier at the same time.

In this invention the knot which ordinarily secures the cord in the sash is dispensed with. The end of the cord is folded around a hollow wedge-shaped piece in a small band fitting into a hole in the edge of the sash, as below described, and the time and trouble necessary in attaching the cord to the sash by the old method are almost entirely done away with.

In the accompanying illustration, Figure 1 is a vertical section of window-sash and frame embodying my invention. In this figure one of the bands is shown in section, and a side view is presented of the other. Fig. 2 is an elevation of the edge of a portion of a sash enlarged. Fig. 3 is an enlarged vertical section of the same. Fig. 4 is a horizontal section upon the line *xx*, Fig. 2.

Similar letters of reference indicate corresponding parts.

a represents a window-sash, and *b* a frame. In applying my invention the sash and frame need no alteration whatever, unless extending the groove *f* in the sash to the hole *c* be deemed an alteration. Of course it is an easier matter to cut the groove the whole distance to the hole than to cut it part way and finish it off. *d* is a small metallic band, and *e* is a hollow wedge-shaped piece.

To attach the cord to the sash, fold the end of the cord around the wedge-shaped piece *e*, press the cord and wedge into the rear end of the band *d*, and place the band into the hole *c* in the edge of the sash.

It makes no difference which side of the band is uppermost, in whatever position it is placed in the hole the cord will remain firm. The more it is pulled the more tightly it holds in its place.

It will readily be seen, in case the sash is to be removed for purposes of repairing or cleansing, the stop-head upon one side may be removed, and the sash taken out and replaced without trouble, even by a most inexperienced person.

The band, of course, is made to slip easily in and out of the hole *c*, and no tying or adjusting is necessary when the sash is taken out or when it is replaced.

While the sash is out the device will hang with the cord fixed in it, until it is put back into the sash.

This device is more than a mere substitute for a knot, because it does not need to be removed, or undone, or separated in any way when a sash is removed or replaced. A substitute for a knot, merely, must necessarily be removed from the cord when the sash is taken out of the frame.

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

The combination of a window-sash, provided with the groove *f*, extending to the hole *c*, with the band *d*, provided with the hollow wedge-shaped piece *e*, the sash and device *d e* being so arranged that the cord need not be separated from the band *d* when the sash is removed or replaced, as above specified.

ANDREW J. CHASE.

Witnesses:

HENRY W. WILLIAMS,
JOHN H. GATELY.