

S. J. JOYCE.  
Sash-Cord Fastener.

No. 208,606.

Patented Oct. 1, 1878.

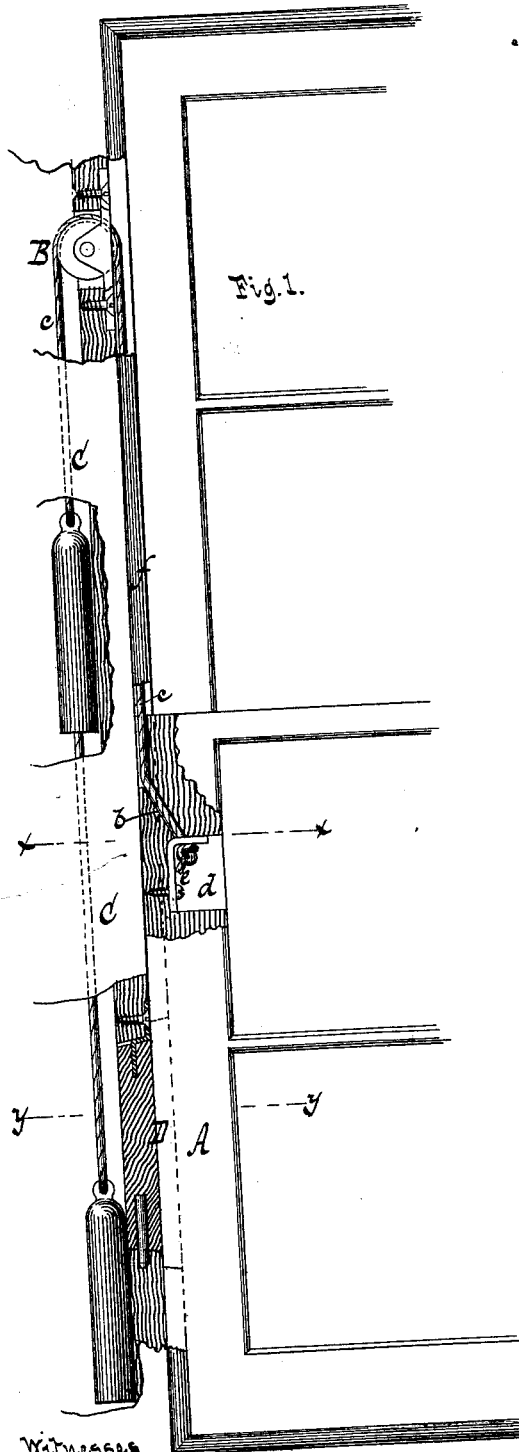


Fig. 1.

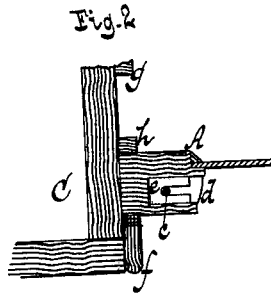


Fig. 2.

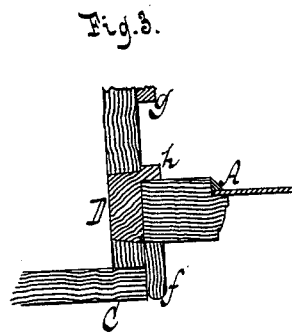


Fig. 3.

Witnesses  
Otto Ohlstrand  
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Inventor  
Samuel J. Joyce  
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his atty.

# UNITED STATES PATENT OFFICE.

SAMUEL J. JOYCE, OF NEW YORK, N. Y.

## IMPROVEMENT IN SASH-CORD FASTENERS.

Specification forming part of Letters Patent No. **208,606**, dated October 1, 1878; application filed June 14, 1878.

### *To all whom it may concern:*

Be it known that I, SAMUEL J. JOYCE, of the city, county, and State of New York, have invented a new and useful Improvement in Hanging Window-Sashes, which invention is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a side view, partly in section, of a window showing my invention. Fig. 2 is a cross-section thereof in the line *xx*, Fig. 1. Fig. 3 is a like section of the same in the line *yy*, Fig. 1.

Similar letters indicate corresponding parts.

My invention relates to that class of window-sashes which are hung by means of a cord and balance-weight; and its chief object is to permit of hanging a sash or of substituting a fresh cord for an old or worn one without disturbing the sash.

To this end it consists in a window-sash having a channel which extends from its bearing edge or edges inward to any exposed point, so that the sash-cord can be drawn through this channel and fastened therein at one end, a recess or enlargement being formed at the inner end of the channel to receive the knot or other contrivance by which the cord is fastened.

In the drawing, the letter A designates a portion of a window-sash, in which is formed a channel, *b*, for the passage of the sash-cord *c*. The channel *b* extends obliquely from the outer edge of the sash to a point directly opposite such edge; but it may also be so arranged that its inner end is on either side of the sash.

The sash-cord *c* is drawn through the channel *b*, and fastened at one end by knotting the same, or in any other suitable manner, whence it passes over a pulley, B, mounted in the window-casing, while at its other end it carries a weight, C.

In order to conceal the knot at the end of the cord *c*, a recess, *d*, is formed at the inner

end of the channel *b*, which recess may, if desired, be provided with a suitable cover. I prefer to cover the inner end of the channel *b* with a metallic plate, *e*, having a suitable opening, so as to protect the sash against wear at that point, especially if a chain is used instead of the cord *c*.

The window-casing C is constructed with a pocket, D, so that while one end of the sash-cord *c* can be fastened to the sash, the other end thereof can be fastened to the weight C without removing the sash from the window-frame, as heretofore.

The pocket D is usually made to extend from the inner edge of the window-casing C inward, which arrangement makes it necessary to remove the stop-bead *f* when it is desired to remove the pocket.

I arrange the pocket D at any suitable point between the stop-bead *f* and the outside casing-strip, *g*, the same being in the example shown made to extend across the parting-strip *h*, and to carry a portion of this strip, as shown in Fig. 3.

It is obvious that this pocket D can be removed without disturbing either the stop-bead *f* or the outside casing-strip of the window.

What I claim as new, and desire to secure by Letters Patent, is—

A sliding window-sash constructed with a channel, *b*, extending from the bearing-edge adjacent to the window-casing inwardly to the opposite side of the sash, terminating in a recess, *d*, in the front edge, in combination with a cord having its knotted end arranged in said recess, said cord passing up over a pulley and provided with a weight, substantially as and for the purpose described.

In testimony whereof I have hereunto set my hand and seal this 10th day of June, 1878.

SAMUEL J. JOYCE. [L. S.]

Witnesses:

E. F. KASTENHUBER,  
CHAS. WAHLERS.