2 Sheets—Sheet 1.

L. FISHER.

Window-Sash and Bead-Fastener.

No. 216,784. Patented June 24, 1879.

Fig. 1.

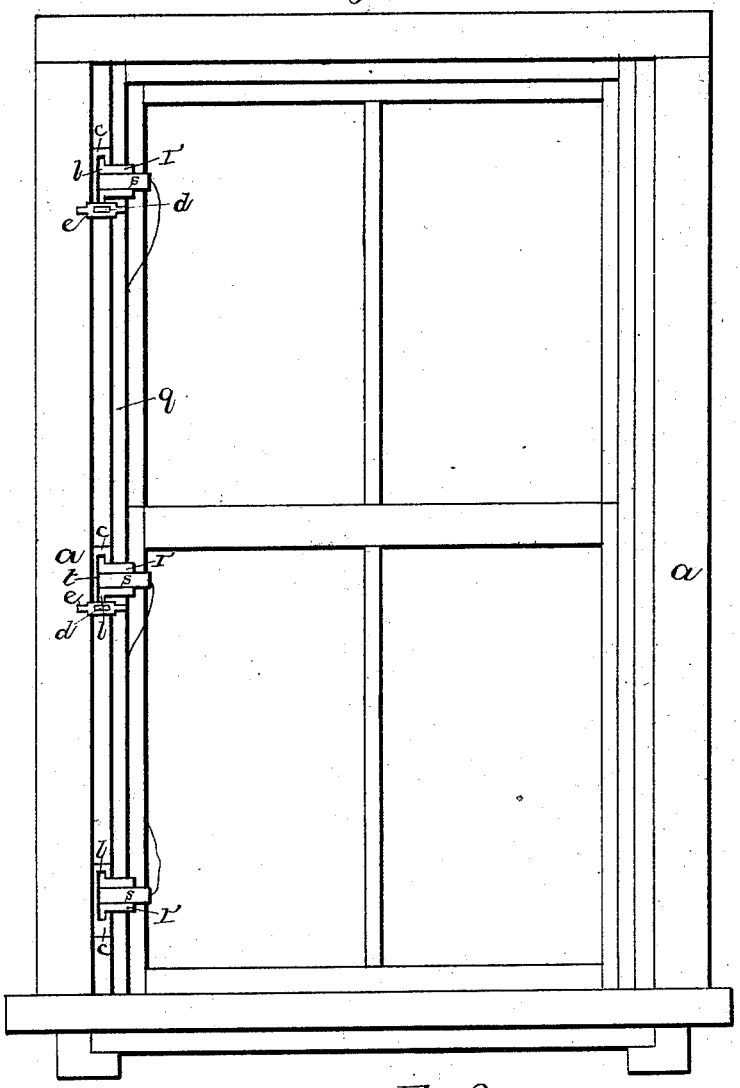


Fig. 2.

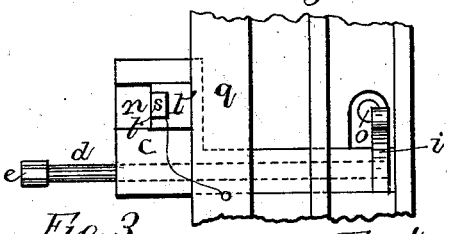


Fig. 3.

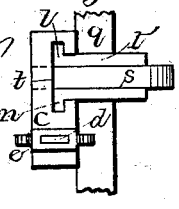
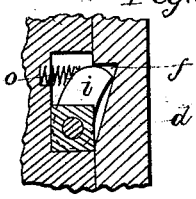


Fig. 4.



Witnesses:

J. W. Garner

W. L. D. Raines

Inventor:

Louis Fisher

per

F. A. Lehmann,

Atty.

2 Sheets—Sheet 2.

L. FISHER.

Window-Sash and Bead-Fastener.

No. 216,784. Patented June 24, 1879.

Fig. 5.

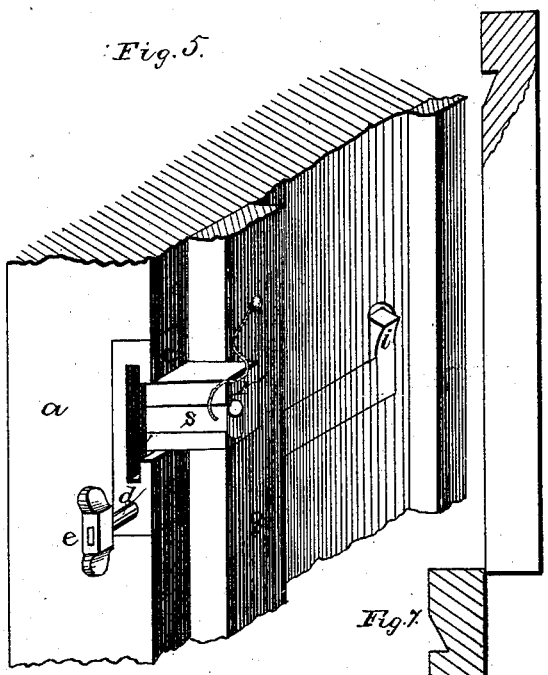


Fig. 7.

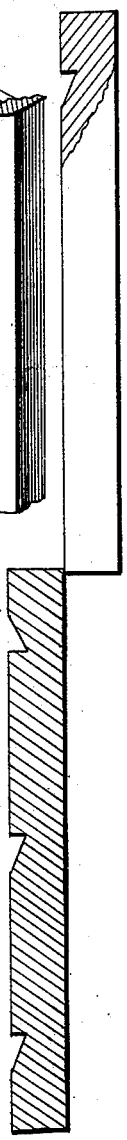
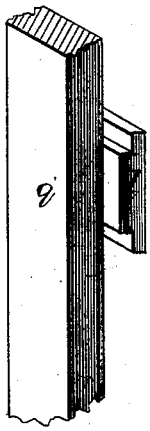


Fig. 6.



Witnesses:

J. W. Garner

W. S. D. Haines

Inventor:

Louis Fisher

per

F. A. Lehmann,

Atty.

UNITED STATES PATENT OFFICE.

LOUIS FISHER, OF LOGAN, OHIO.

IMPROVEMENT IN WINDOW SASH AND BEAD FASTENERS.

Specification forming part of Letters Patent No. **216,784**, dated June 24, 1879; application filed March 15, 1879.

To all whom it may concern:

Be it known that I, LOUIS FISHER, of Logan, in the county of Hocking and State of Ohio, have invented certain new and useful Improvements in Window-Sash Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in window-sash fasteners; and it consists in the arrangement and combination of parts that will be more fully described hereinafter.

Figure 1 is a front elevation of my invention, and Figs. 2, 3, and 4 are detail views thereof. Fig. 5 is a perspective of the fastener, and Fig. 6 is a perspective of the bead and its slide. Fig. 7 is a detail view.

a represents a common window-frame. In the side of this frame are cut a suitable number of recesses, in which are secured the castings or frames *c*, arranged at any suitable distance apart. Passing through the upper and central ones of these castings are the rods *d*, which have the handles *e* on their outer ends and the stops or catches *i* on their inner ones, which stops are kept constantly pressed outward by coiled springs *o*, placed back of them. In the edge of each one of the sashes are cut a suitable number of recesses, *f*, in which the stops *i* catch, for the purpose of supporting the sashes at any desired point.

In the upper corner of the lower sash one recess is inclined in the opposite direction to the others in that sash, so that the stop will catch in it, and thus prevent the sash from being raised from the outside. The recesses in the upper sash all incline in the same direction, so that the sash cannot be pulled down from the outside.

In the castings *c* are made the recesses *n*, into which the slides *l* snugly fit. These slides are secured to the inside of the bead Q, so that as the bead is shoved into place these slides *l* move into the recesses *n*, and thus hold the bead in position.

In order to lock the slides, so that the bead cannot become displaced by any means, there is a flange or projection, *r*, formed on the outer end of each slide, which flange extends at right angles to the slide, and has a groove made in its face to receive a key, *s*. The inner ends of these keys catch in a hole, *t*, in the frames *c*, and as they extend directly across the front edges of the slides it will readily be seen that the slides cannot come out until the keys are removed. By passing the rods *d* with their stops through the castings *c*, a sash-fastener and a bead-lock are combined together.

Having thus described my invention, I claim—

1. The castings *c*, having the rods *d* journaled therein, and having the recesses *n* to receive the slides *l*, substantially as shown.

2. The combination of the casting *c*, having recess *n*, with the slide *l*, permanently secured to the bead, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 11th day of March, 1879.

LOUIS FISHER.

Witnesses:
A. H. WILLIGE,
GOTLIEB BURZ.