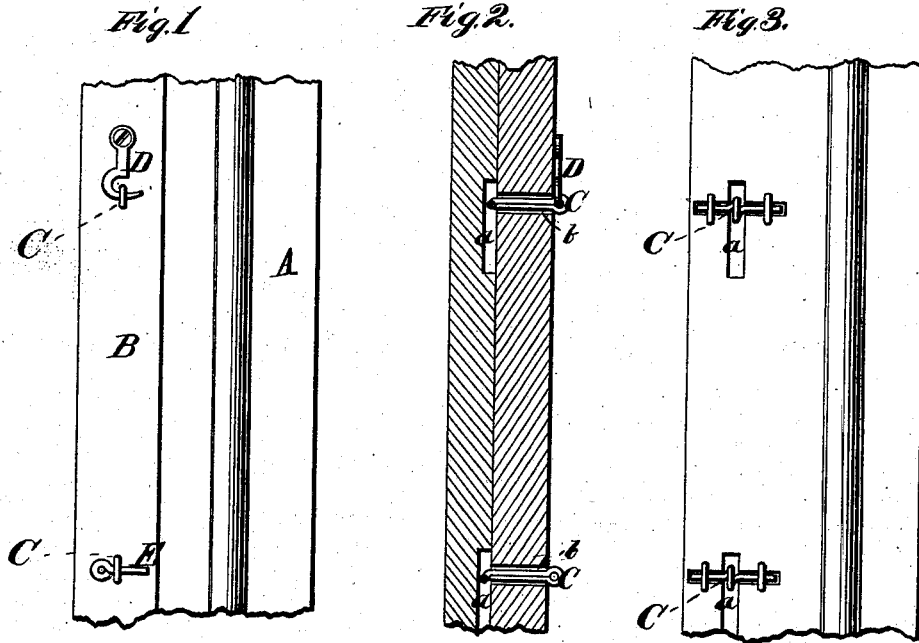


G. M. EVANS.  
Window-Bead Fastener.

No. 207,262.

Patented Aug. 20, 1878.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

GEORGE M. EVANS, OF PITTSBURG, PENNSYLVANIA.

## IMPROVEMENT IN WINDOW-BEAD FASTENERS.

Specification forming part of Letters Patent No. 207,262, dated August 20, 1878; application filed February 11, 1878.

*To all whom it may concern:*

Be it known that I, GEORGE M. EVANS, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Window-Bead and Window-Strip Fastenings; and I do hereby declare that the following is a clear, full, and exact description of my present improvement, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of my present invention consists in so constructing and securing to the inner sides of the window-frame the beads or strips by means of hooks or pins, or their equivalent in connection with my adjustable staples, for the purpose of attaching or removing easily at will the beads or strips, and replacing them in the exact position in regard to the sash, without the use of nails or other old appliances.

To enable others skilled in the art to make and use my invention, I shall proceed to describe its construction and operation.

In the accompanying drawing, Figure 1 is a representation of a front view of my window frame and bead fastener, and Fig. 2 a vertical sectional view of the same. Fig. 3 is also a front elevation. Fig. 4 is a detail view thereof; and Figs. 5 and 6 are detail modifications.

This invention relates to fastenings for window-frame beads; and it consists in staples which are adapted to project through, or partly through, the beads for fastening the same, and which may be folded down out of the way to allow the sash to be inserted; also, in a removable bead recessed or slotted to correspond to such staples, and provided with a hook, or its equivalent, for locking therewith, so as to preserve said bead from casual displacement; also, in a stile for a window-frame, which is provided with cruciform grooves to receive said staples when they are folded down to allow the insertion of the sash.

In the annexed drawings, A designates a stile of a window-frame, in which are cruciform grooves *a a*, wherein are pivoted staples C C, that have their bent ends journaled in the cross-arms of said grooves, and are adapted to fold down into the longitudinal part thereof. These staples may be either bent wire rods, as shown in Fig. 4, or they may consist

of plates hung on cross-shafts or small trunnions, and perforated at their upper ends, as shown in Fig. 5. Other modifications may be made without departing from the spirit of my invention.

B is a bead, (the inside one,) perforated at *b b* to receive said staples, and provided with pivoted hooks D for engaging with the same, and thereby locking said bead in place. By this construction the bead is secured firmly enough to prevent any accidental displacement, while at the same time it is readily removed to allow the removal of the sash without injuring either the bead or the stile, or loosening the attaching-staples. When the sash is to be replaced, the staples or perforated plates are turned down into the grooves *a a* of stile A, and there is then no obstacle to its insertion.

Instead of hooks D a straight detachable rod, E, may be employed, as shown in Fig. 1. Also, bead B may be recessed instead of being perforated, so that the staple will not come quite through. In the latter case there must be cross-perforations through the bead, communicating with such recess, and a longer cross-rod should be used to lock the staple. Other modifications may be adopted without departing from the spirit of my invention.

Any of the beads of the window-frame may be secured by the above devices.

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

1. In combination with recessed or slotted bead B, a pivoted staple, from which said bead may be detached, said staple being afterward turned down to allow the insertion of the sash, substantially as set forth.

2. In combination with stile A, having a cruciform groove, a staple, or its equivalent, adapted to fold into said groove, substantially as set forth.

3. The combination of staple C, bead B, and hook E, or its equivalent, substantially as set forth.

4. A staple permanently secured to the stile of a window-frame and detachably secured to the bead thereof, substantially as set forth.

GEORGE M. EVANS.

Witnesses:

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