

E. W. WARREN.  
Sash-Holders.

No. 134,715.

Patented Jan. 7, 1873.

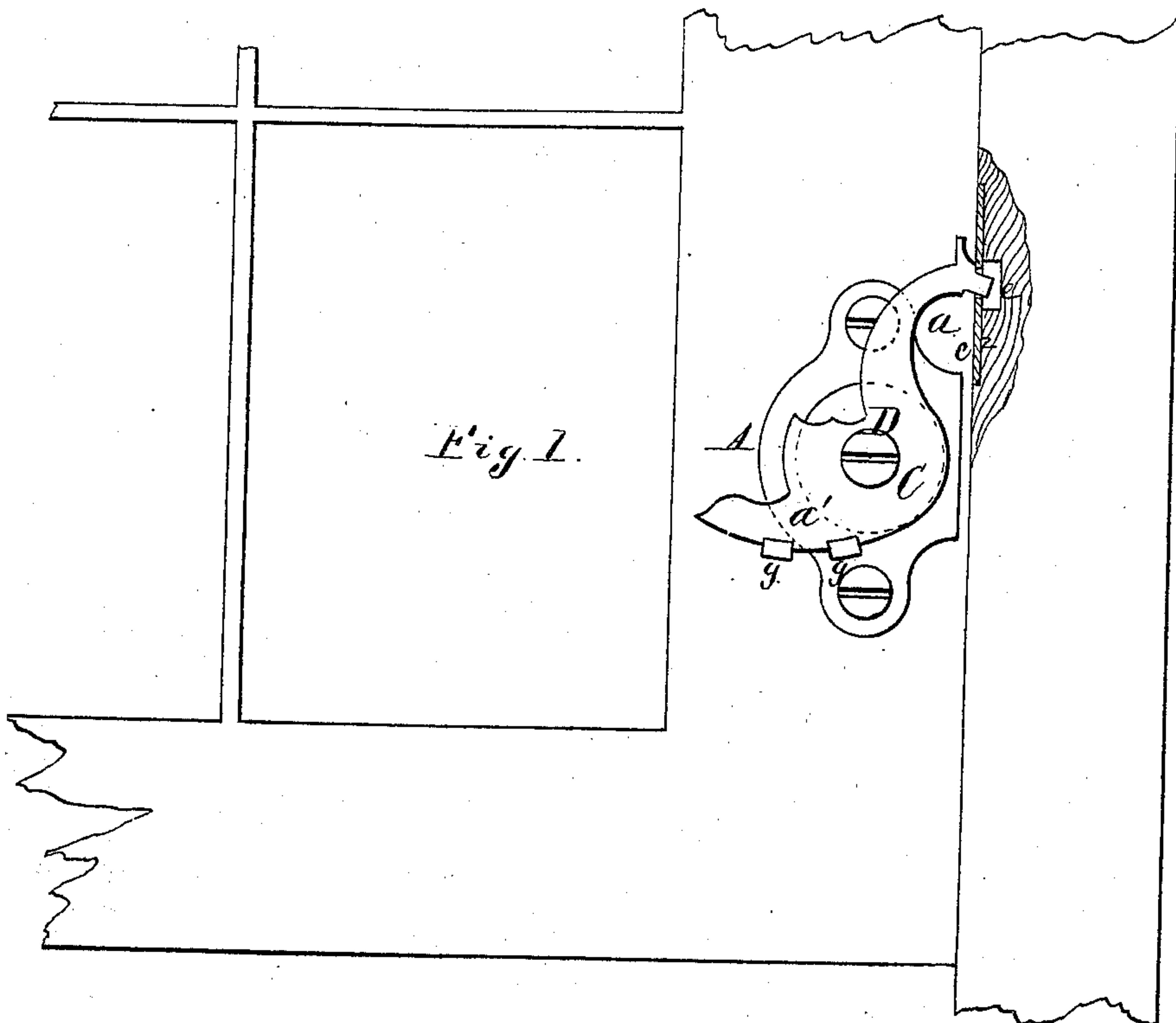


Fig. 2.

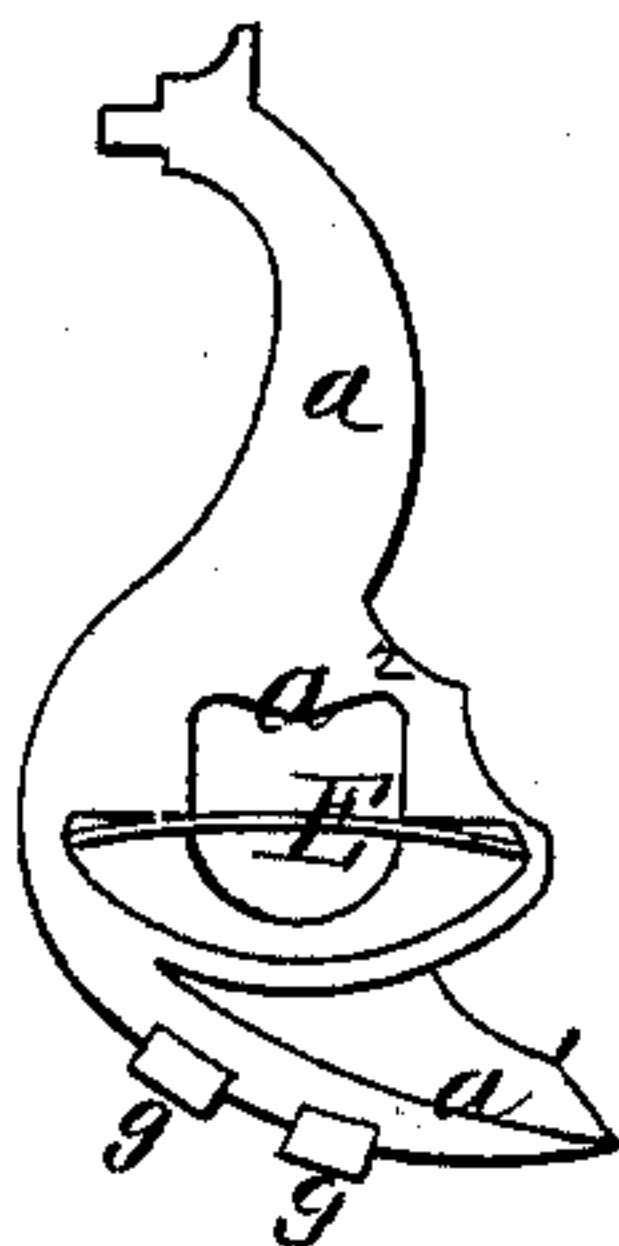
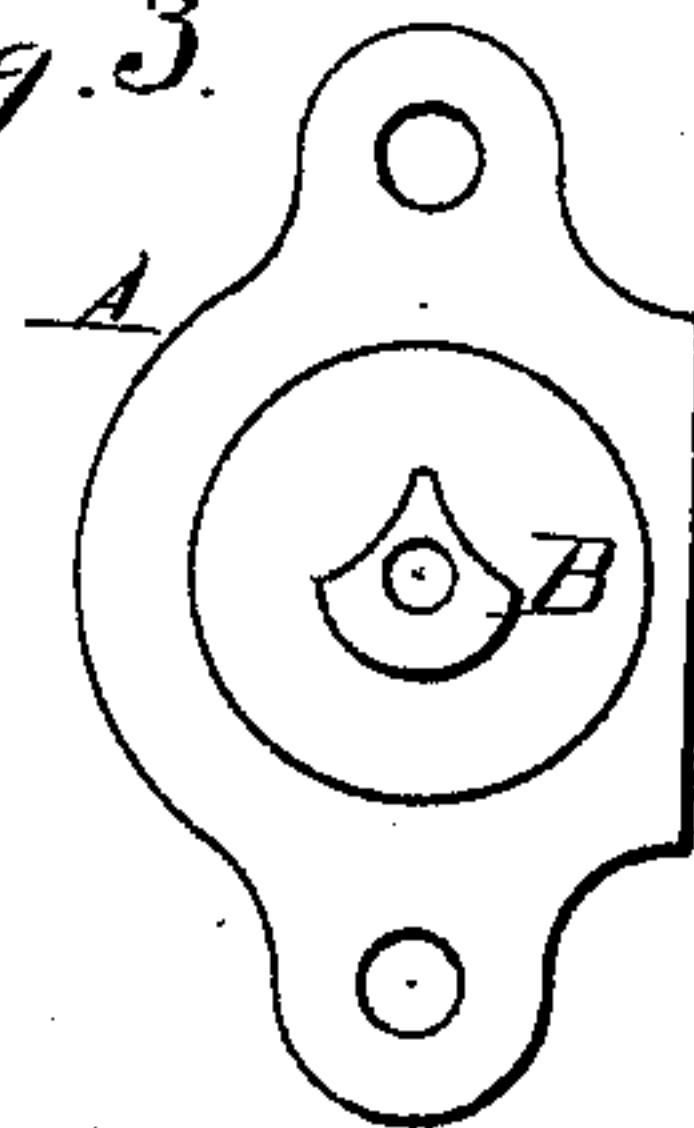


Fig. 3.



Witnesses:  
E. A. Bates.  
Phillip Mason

Inventor:  
Edwin W. Warren  
Chipman & Fosmire & Co.,  
Attorneys,

# UNITED STATES PATENT OFFICE.

EDWIN W. WARREN, OF CAMBRIDGE, NEW YORK.

## IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. 134,715, dated January 7, 1873.

### CASE B.

*To all whom it may concern:*

Be it known that I, EDWIN W. WARREN, of Cambridge, in the county of Washington and State of New York, have invented a new and valuable Improvement in Window-Fasteners; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a front view of my window-fastener. Fig. 2 is a rear view of the fastener. Fig. 3 is a front view of the base-plate.

This invention has relation to window-sash fasteners; and it consists in the construction and novel arrangement of a pivoted cam and hook-latch having a hook, a cam, and a concavo-convex cam recess, used in connection with a plate provided with a half-round and a half-angular hub, substantially as herein-after more fully described.

Referring to the drawing, A designates a plate secured to the side of the sash, and provided with a hub or projection, B, having one convex and two straight or concave sides, the latter being at right angles to each other, or nearly so. C designates the latch having the hook *a*, cam *a*, and half-round and half-square slot *a*<sup>2</sup>. The hub or projection B passes through said slot with its convex side toward the concave part thereof, and receives a screw, D, which serves to secure the latch to the sash. E designates a spring arranged within

a recess in the inner surface of the latch, and traversing the slot *a*<sup>2</sup> at the concave portion. When the cam portion of the latch is turned toward the side of the window-frame nearest it the spring pressed upon by the convex side of the hub presses the cam with some degree of force against the window-frame. This pressure is increased by the weight of the sash, causing the latch to retain the sash at any height to which it is raised, but allowing it to be moved when force is applied to it. When the hook *a* is turned toward the same side of the window-frame the spring also acts, causing the hook to enter a recess, *e*, in the window-frame through a slotted plate, *e*<sup>2</sup>, and thus serve as a lock when the sash is closed. The end of the hook is shouldered to prevent it from entering the recess too far. The cam has blocks, *g*, of India rubber or its equivalent, inserted in recesses in its edge, and designed to preserve the wood of the frame from wear by the friction of the latch.

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

The latch C having the hook *a*, cam *a*<sup>1</sup>, and partially concave or arched slot *a*<sup>2</sup>, in combination with the half-round and half-angular hub or projection B and spring *e*, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

EDWIN W. WARREN.

Witnesses:

JAMES L. ROBERTSON;  
ELLERY S. ROBERTSON.