

J. A. ADAMS.
SASH-HOLDER.

No. 174,889.

Patented March 21, 1876.

Fig. 1.

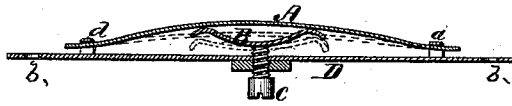


Fig. 2.

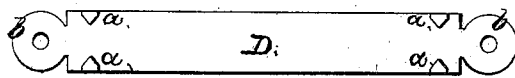
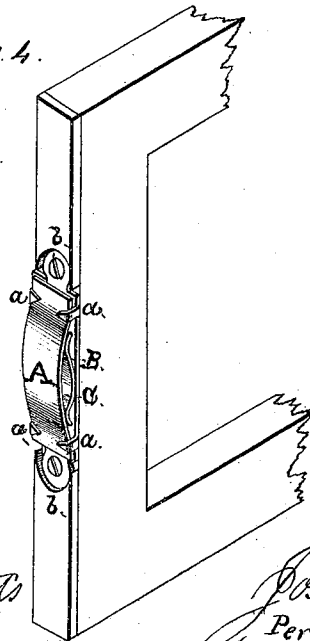


Fig. 3.



Fig. 4.



Witnesses.

Richard S. Butts
John L. Adams.

Inventor.

Joshua A. Adams.
Per.
James B. Munnar - atty

UNITED STATES PATENT OFFICE.

JOSHUA A. ADAMS, OF BALTIMORE, MARYLAND, ASSIGNOR OF ONE-HALF
HIS RIGHT TO ALEXANDER J. ABRAMS, OF SAME PLACE.

IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. **174,889**, dated March 21, 1876; application filed
December 1, 1875.

To all whom it may concern :

Be it known that I, JOSHUA A. ADAMS, of the city and county of Baltimore and State of Maryland, have invented certain new and useful Improvements in Sash-Holders; and I do hereby declare the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 represents a transverse view of the device in section. Fig. 2 is a view of the external surface of the back plate. Fig. 3 is a view of the inner surface of the same, and Fig. 4 is a view of one side of a window-sash with the holder adjusted in proper position.

The object of my invention is to furnish a simple and effective fastener for supporting a window-sash in any desired position or at any height required, and it consists in arranging two metallic springs with their concave surfaces toward each other, and attached to a back plate by overlapping projections of the same, and having an adjusting-screw passing through the center of the back plates so as to bear upon the inner spring and regulate its tension, as will be hereinafter more fully described and definitely claimed.

A represents a metallic spring which is made fast to the back plate D by the overlapping projections *a a*, so as to secure and hold it in such position as to bear firmly against the window-frame at the same time that it will slide freely upon the plate. The under spring B is made in the form shown, and is placed with its concave surface toward that of the spring A, and with its ends bent slightly back, so as to bear firmly on the upper spring while resting on the back plate D, and when operated on by the adjusting-screw C will distribute and equalize the pressure of the screw

upon the upper spring, the space between the spring A and plate D widening or closing in such a manner as to produce sufficient pressure to hold the sash in any position desired.

The device is secured to the sash by screws *b b*, and rests in a mortise provided for that purpose, the screw C being concealed within the sash so that it cannot be tampered with after having been adjusted.

It is evident that as the upper spring A is forced up by the pressure of the under spring B, which is operated on by the adjusting-screw C, so in like manner will the under spring be forced down by the upper one, and the result will be the widening or closing of the springs to any width of space desired, the curvature of the upper spring bearing against the jamb of the window-frame and supporting the sash in any required position.

I am aware that single metallic springs, operated on by adjusting-screws, have been applied to window-sashes for the purpose of supporting them in the frame, and that double springs have also been employed with their free ends pressing against the frame to produce the same effect; but I do not claim broadly either of these means of supporting the sash.

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

The combination of the upper outwardly-curved spring A and the under inwardly-curved spring B with the adjusting-screw C and the plate D, having overlapping projections *a a* to secure the springs thereto, all arranged and operating as and for the purpose specified.

JOSHUA A. ADAMS.

Witnesses:

RICHARD S. BUTTS,
JOHN Q. ADAMS.