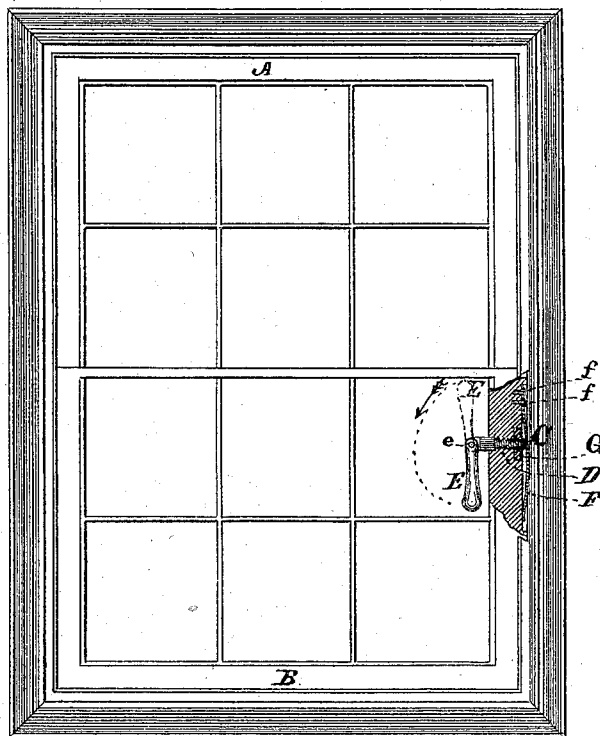


J. F. GRAHAM.  
Sash-Holders.

No. 138,494.

Patented May 6, 1873.

*Fig. 1.*



WITNESSES:

*Horro. Lauton.*  
*H.S. Abbott*

INVENTOR:

*Joseph F. Graham.*  
*By* *Wells W. Leggett,*  
*Attorney*

# UNITED STATES PATENT OFFICE.

JOSEPH F. GRAHAM, OF WARRENSBURG, MISSOURI, ASSIGNOR OF ONE-HALF HIS RIGHT TO ALEXANDER BETTES, OF SAME PLACE.

## IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. **138,494**, dated May 6, 1873; application filed September 4, 1872.

*To all whom it may concern:*

Be it known that I, JOSEPH F. GRAHAM, of Warrensburg, in the county of Johnson and State of Missouri, have invented certain new and useful Improvements in Window-Sash Supporters; and I do hereby declare that the following is a full, clear, and exact description thereof, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing and to the letters of reference marked thereon which form a part of this specification.

In the drawing, Figure 1 presents a view, in section and elevation, of the device attached to a window-frame, in which—

A is the upper sash; B, the lower sash, to which the device is attached; C, the window-casing. D is the screw, which forms the principle upon which the securer acts. This screw D is operated by means of a movable handle or wrench, E, attached to it by means of a rivet, *e*. This wrench E is raised up vertically, without turning on the pivot *e*, and thus turns the screw D one-half revolution. It is let fall around the pivot *e* and is raised again, as before, and the operation repeated until the screw D is run through against the metallic strap F, which is fastened by screws *ff* at one of its ends; it forces this strap against the

window-casing, so that, without injuring the surface of the latter with the end of the screw, the friction can be made great enough to securely fasten and secure the window at any point.

The screw D may operate in a thread worked into the wood of the sash directly; or it may pass through a metal plate sunk flush with the sash next to the window-casing, as shown at G.

This sash-supporter presents such a combination of appliances as would render it proof against picking, as it lies so close to the glass that the screw cannot be turned without these successive operations with the lever or wrench E.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In combination with the metallic strap F, the screw D provided with swinging wrench E, constructed and operating in the manner and for the purposes substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 26th day of August, 1872.

JOSEPH F. GRAHAM.

Witnesses:

WELLS W. LEGGETT,  
J. L. BETTES.