H. Gross,

Window,

No. 81,493. Fig. 1. Patented Aug. 25, 1868

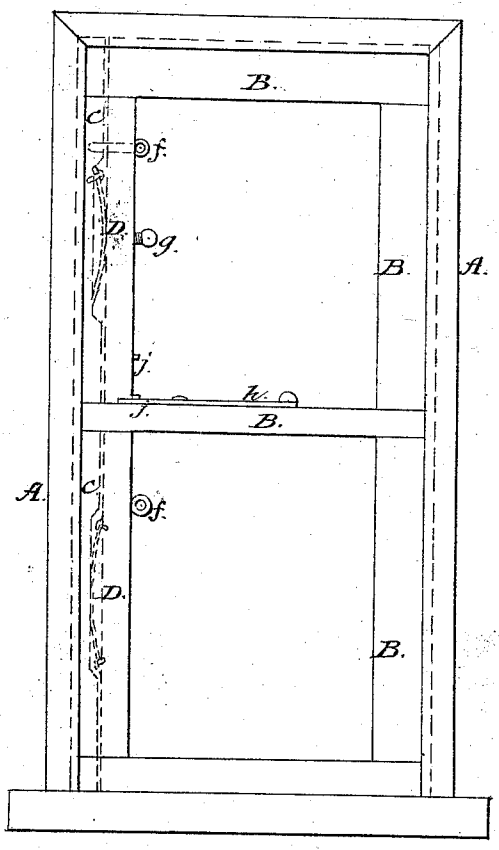


Fig. 2.

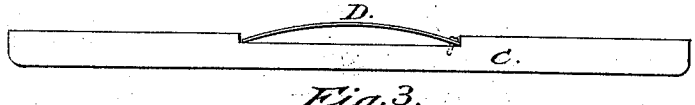
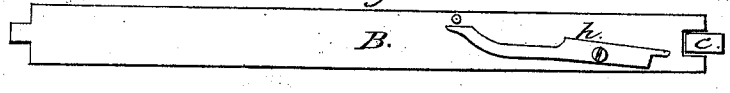


Fig. 3.



Witnesses;

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United States Patent Office.

HENRY GROSS, OF TIFFIN, OHIO.

Letters Patent No. 81,493, *dated August* 25, 1868.

IMPROVEMENT IN WINDOW-SASH.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, HENRY GROSS, of Tiffin, in the county of Seneca, and in the State of Ohio, have invented certain new and useful Improvements in Windows; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and the letters of reference marked thereon.

In the annexed drawings, making a part of this specification, A represents a window-frame, made of any desired material and dimensions, and provided with grooves, in which fit and work the tongues of the sash B.

B represents a window-sash, made with a tongue projecting from one side, to fit in a groove in the window-frame, A, and with a groove in the other side, in which fits an adjustable tongue, C.

The tongue C is made as long as one part of the window, and just so as to fit in and fill the grooves in the window-frame and the side of the window-sash, and when inserted therein holds the sash B in the frame without the use of slats or other device.

A spring, D, is secured in a suitable recess in the adjustable tongue C, or in the grooves in the sash B or frame A, for the purpose of pressing the tongue C firmly against the bottom of the grooves, and thereby hold the sash in any position desired without the use of weights or other device for that purpose.

A small set-screw, *f*, passes through the side of the window-sash B into the adjustable tongue C, and holds the same in its place until it may be desired to take the sash out of the frame, at which time the screw *f* is withdrawn from the tongue C, and then by pressing upon the bottom or top thereof until it can be grasped by the fingers, when, by pulling one way and pushing the sash to the opposite end of the frame A, the said tongue is withdrawn, and the sash will readily slip out of the frame.

A set-screw, *g*, may be inserted in the side of the sash, directly opposite or over the middle of the spring D, so as to press thereon should said spring become too weak to hold the sash in the position required.

I make a groove in the top of my frame, A, and a corresponding tongue along the top of the upper part of the sash B.

It will be seen that I can make a better joint than can be made by the use of slats, thereby requiring no weather-strip, and that I combine my fastener with the sash, or rather my sash is a self-fastener, and the same is cheaper and more convenient than any other known device.

h represents a metallic plate or lever, pivoted to the top of the lower part of the sash B, one end of which catches beneath pins or projections *j j*, and thereby locks the window at any point desired.

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

The tongue C, spring D, set-screw *g*, bar *h*, and pins *j j*, arranged in combination with the sash B, to operate as set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this seventeenth day of February, 1868.

HENRY GROSS.

Witnesses:

HARRISON NOBLE,

WARREN P. NOBLE.