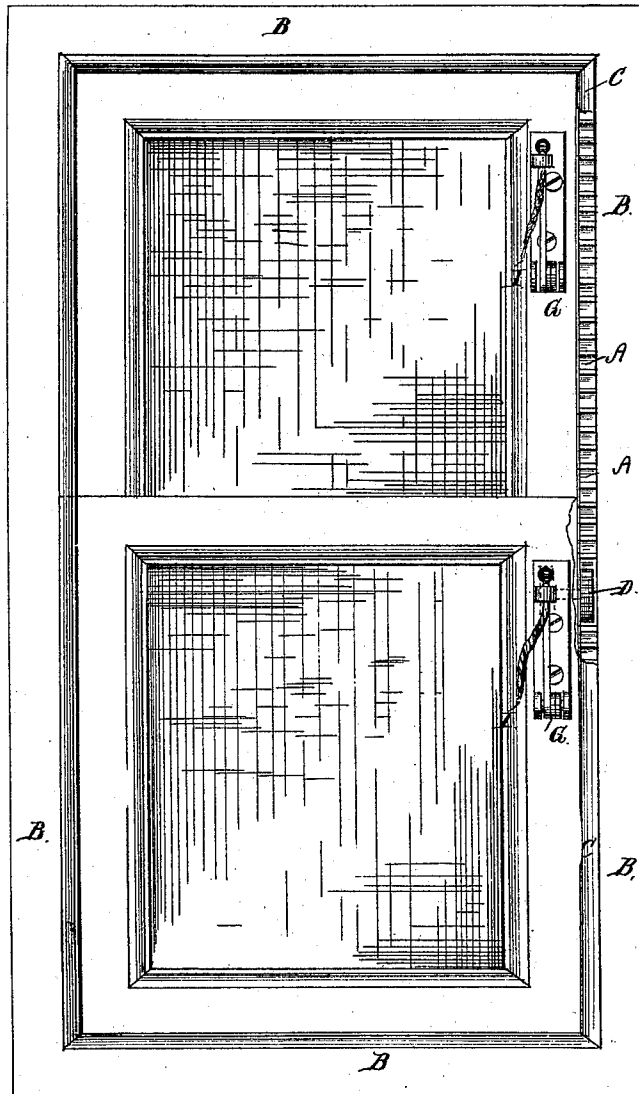


J. BITTENBENDER.
SASH-FASTENER.

No. 171,262.

Patented Dec. 21, 1875.

Fig. 1.



WITNESSES
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Fig. 2.

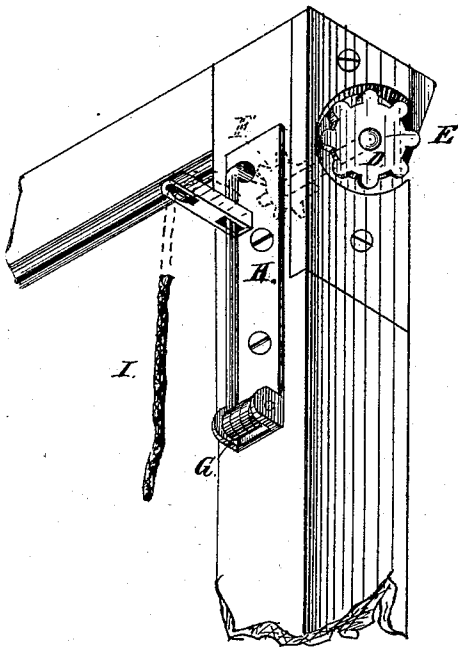
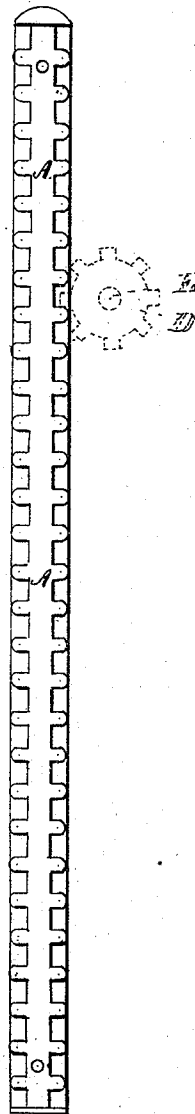


Fig. 3.



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JONAS BITTENBENDER, OF BEAVER VALLEY, PENNSYLVANIA.

IMPROVEMENT IN SASH-FASTENERS.

Specification forming part of Letters Patent No. **171,262**, dated December 21, 1875; application filed October 12, 1875.

To all whom it may concern:

Be it known that I, JONAS BITTENBENDER, of Beaver Valley, in the county of Columbia and State of Pennsylvania, have invented certain new and useful Improvements in Window-Sash Fasteners; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

In the accompanying drawings, Figure 1 is a front view of a window frame and sash with my improved sash-holder. Fig. 2 is a detached view of my ratchet-bar and gear-wheel. Fig. 3 is a detached perspective view.

My invention consists of a novel combination of gear-wheels and a double ratchet-bar for holding window-sashes, the construction and operation of which devices will be hereinafter more fully described, and then definitely claimed.

In the construction of my improved sash-holder I cast a double ratchet-bar, A, as shown in Fig. 2. This bar is then attached to the side of the window-frame B, as shown in Fig. 1. It is covered in part by the bead or strip C, which is between the upper and lower sashes. In each sash is placed a gear-wheel, D, provided with a short horizontal axle, E, which carries a smaller toothed wheel, F. This

toothed wheel is to be locked by a spring-catch, G, which is operated by the cord I, as will be now explained.

The operation is as follows: When it is desired to raise or lower either sash the operator pulls gently upon the cord I, and with the other hand raises or lowers the sash, as desired, and then slackens the cord, when the catch G immediately locks the sash in place.

The small plate H may be cast or stamped from sheet metal, and the catch G may be made from a small wire, with a short coil to give sufficient spring.

My invention, therefore, requires very little fitting, and is very cheap, efficient, and durable.

Having described my invention, I claim—

1. The double ratchet-bar A, fastened to the window-frame B, in combination with the gear-wheel D upon the sash, substantially as set forth.

2. The toothed wheel F and spring-catch G, in combination with the gear-wheel D and double ratchet-bar A, substantially as specified.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JONAS BITTENBENDER.

Witnesses:

DANIEL BREED,
AUGUSTUS E. SHUMAN.