

G. W. HEIMBACH.  
Window-Screens.

No. 167,100.

Patented Aug. 24, 1875.

Fig 1

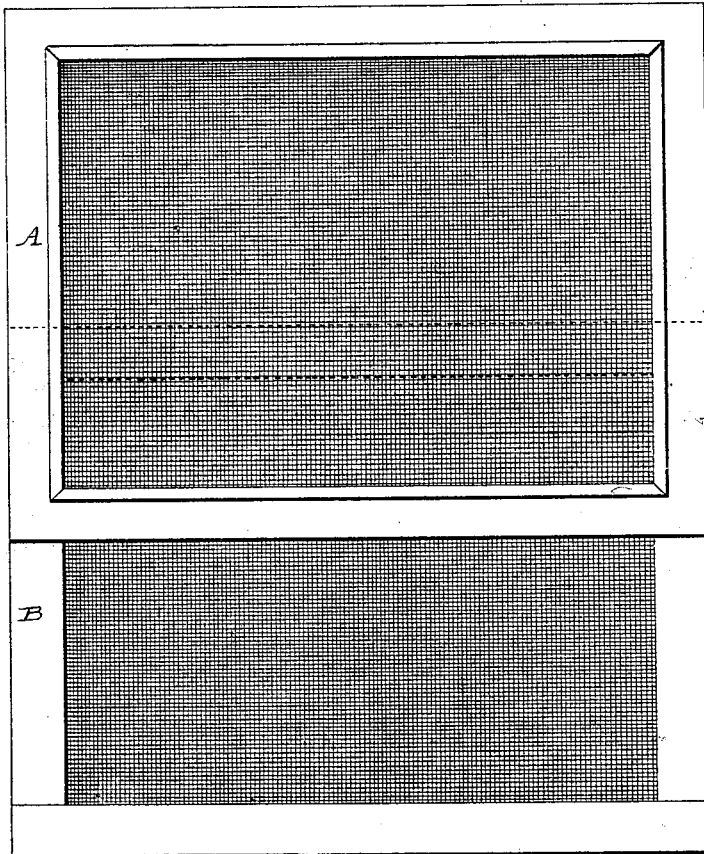


Fig. 2.

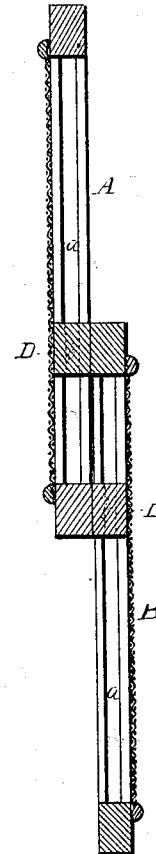
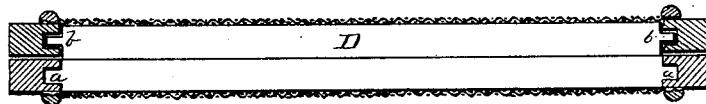


Fig. 3.



WITNESSES  
*Robert Covett*  
*George C. Upshaw.*

INVENTOR  
*George W. Heimbach,*  
*Chipman Fossum & Co.,*  
ATTORNEYS

# UNITED STATES PATENT OFFICE.

GEORGE W. HEIMBACH, OF ALLENTOWN, PENNSYLVANIA.

## IMPROVEMENT IN WINDOW-SCREENS.

Specification forming part of Letters Patent No. **167,100**, dated August 24, 1875; application filed July 17, 1875.

*To all whom it may concern :*

Be it known that I, GEORGE W. HEIMBACH, of Allentown, in the county of Lehigh and State of Pennsylvania, have invented a new and valuable Improvement in Window-Screens; 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 drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a front view of my window-screen. Fig. 2 is a vertical sectional view of the same, and Fig. 3 is a horizontal sectional view thereof.

My invention relates to screens used in windows; and it consists in two frames covered with wire-cloth, and having longitudinal grooves in the inner edges of the vertical rails, in which rails slide cleats or bars attached to the meeting-rails of the frames, as will be hereinafter more fully set forth.

In the annexed drawing, A and B represent two sashes or frames of any suitable dimensions, covered with the ordinary painted wire-cloth, C, used for window-screens. The side rails of the two frames A B are, on their inner edges, formed each with a longitudinal groove, *a*, and in said groove, on each groove, are inserted tenons *b b*, formed on the ends of a bar,

D. The bar thus inserted in one frame is permanently secured to the meeting-rail of the other frame, thus holding the two frames together, and allowing them to slide one upon the other, while at the same time the space between the two wire-cloths is so filled at top and bottom of the junction of the two frames that no flies or insects can pass in. When the screen is made to fit the window from side to side the window may be raised more or less, as desired, and the screen extended or contracted to correspond; or, if the window is wider than the screen, the latter may be placed on its side and extended laterally till it fills the window.

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

The screens A B, having side rails provided with longitudinal grooves, *a*, on their inner edges, in combination with the bars D, attached to the meeting-rails of the screens, and formed with tenons *b* on their ends to fit in the grooves, substantially as and for the purposes herein set forth.

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

GEO. W. HEIMBACH.

Witnesses:

W. J. ROMIG,

H. C. HUNSBAYER.