

G. W. DICKINSON.
Window Sash.

No. 202,247.

Patented April 9, 1878.

Fig. 1.

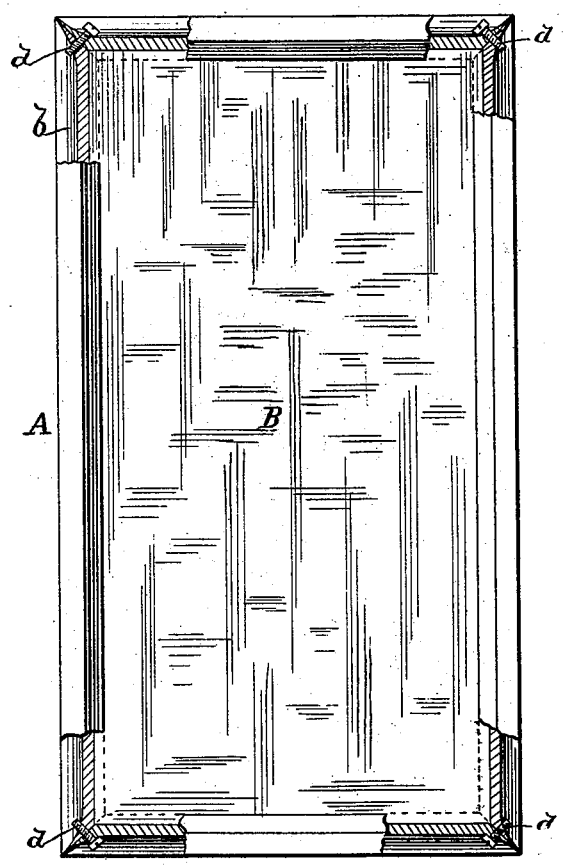
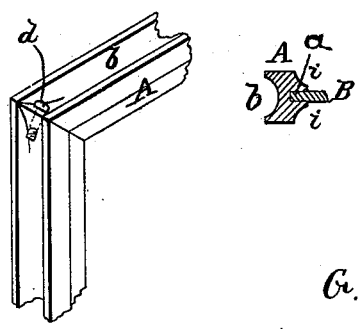


Fig. 2.



WITNESSES
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GEORGE W. DICKINSON, OF CHARLESTOWN, ILLINOIS.

IMPROVEMENT IN WINDOW-SASHES.

Specification forming part of Letters Patent No. **202,247**, dated April 9, 1878; application filed September 27, 1877.

To all whom it may concern:

Be it known that I, GEO. W. DICKINSON, of Charlestown, in the county of Coles, and in the State of Illinois, have invented certain new and useful Improvements in Window-Sash; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a metallic sash for windows, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a front view of my metallic window-sash, the corners being in section. Fig. 2 is a perspective view of one corner of the sash, with a section of one rail thereof.

My metallic window-sash is composed of four rails, A A, of suitable length, and formed substantially as shown in Fig. 2—that is to say, along the inner side is formed a central longitudinal groove, *a*, to receive the glass B. The outer edge of the rail is hollowed out or

formed with a curved longitudinal groove, *b*, and the inner corners of the rail are rounded, as shown at *i i*. The ends of the rails are mitered, as shown, to fit closely together, and the rails are then united by means of screws *d d*, passing diagonally through the corners, as shown in the drawing.

The construction of this sash or frame gives it lightness and strength. Putty is entirely dispensed with in fastening the glass; and if a glass breaks all there is to do is to take out the screws *d*, when the sash separates, and a new glass can easily be put in and the frame fastened again.

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

A metallic sash formed of the rails A A, formed, as described, with the interior grooves *a* and outer concaves *b*, and fastened at the mitered corners by screws *d*, substantially as herein shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 5th day of September, 1877.

GEORGE W. DICKINSON.

Witnesses:

WM. B. GALBREATH,
ISAAC N. VAN DYKE.