R. S. DRUMMOND.

GLASS HOLDING DEVICE FOR METALLIC WINDOWS.

APPLICATION FILED APR. 24, 1913.

1,140,887. Patented May 25, 1915.

Fig. 1.

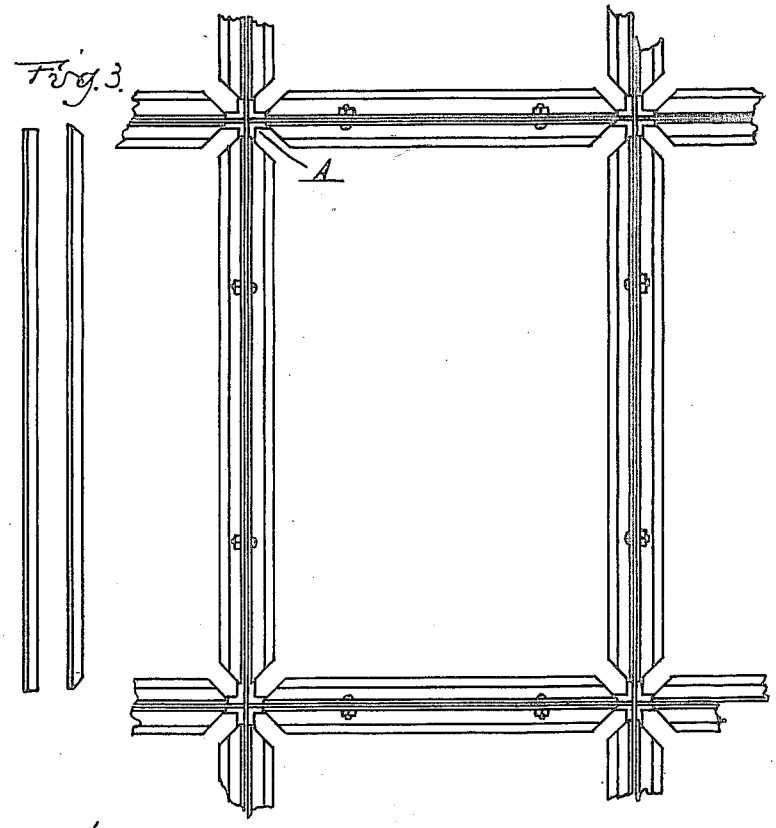
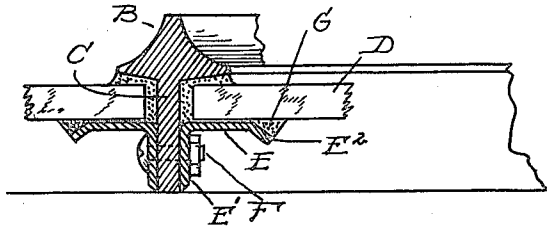


Fig. 3.

Fig. 2.

Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

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GLASS-HOLDING DEVICE FOR METALLIC WINDOWS.

1,140,887. Specification of Letters Patent. Patented May 25, 1915.

Application filed April 24, 1913. Serial No. 763,350.

To all whom it may concern:

Be it known that I, ROBERT S. DRUMMOND, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Glass-Holding Devices for Metallic Windows, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to metallic windows, and more particularly to the means for securing and retaining the glass in the metallic sash. To render the structure as nearly as possible fire proof, it has been found expedient to secure the glass by metallic fasteners as the putty joint employed for weather proofing will not resist heat. It is therefore frequently required that the glass panes should be secured by metallic flanges or strips. On the other hand, the putty joint—such as used upon wooden window sashes—is more thoroughly weather proof than the metallic constructions, and the present invention is designed to combine in a single structure the advantages of the metallic securing means and the putty joint.

In the drawings: Figure 1 is a front elevation of a portion of a metallic securing device for the glass; Figs. 2 and 3 are respectively side and front elevations of the metallic securing strips detached; and Fig. 4 is an enlarged cross section showing the glass secured and weather-proofed in the sash.

A is a metallic window sash of any suitable construction, being preferably formed of intersecting T-head bars B having stem portions C.

D is the glass pane which is seated against the inner face of the T-head B with its edge adjacent to the stem portion C.

E is a metallic fastening device, preferably in the form of an angle bar having one flange E′ lying adjacent to the stem C and detachably secured thereto by suitable means, such as the bolts F.

To weather-proof the joint, the glass pane is embedded in putty, which lies between the edge thereof and the stem C and also between the shoulder on the head B and the adjacent edge of the glass. To further insure the weather-proofing, the bar E is provided on the flange which lies adjacent to the glass with an outwardly-extending obliquely-bent portion E^2. This forms an angular recess in which putty may be placed, as indicated at G, and by reason of the tapering form there will be no opening of the joint through shrinkage.

The construction as described forms a more thoroughly weather-proofed joint than can be obtained by metallic fastenings; while, on the other hand, the glass is securely held by the metallic parts alone and does not in any way depend upon the putty.

What I claim as my invention is:

The combination with a metallic window sash provided with a seat, and a retaining strip secured thereto, of a pane of glass engaged between said strip and said seat, the body portion of the strip being in contact with the adjacent face of the glass and its edge portion being flared forming a putty recess between the glass and retaining strip.

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT S. DRUMMOND.

Witnesses:
PAUL A. SMITH,
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