# G. A. KEENE.

## Carriage-Window.

No. 163,016. Patented May 11, 1875.

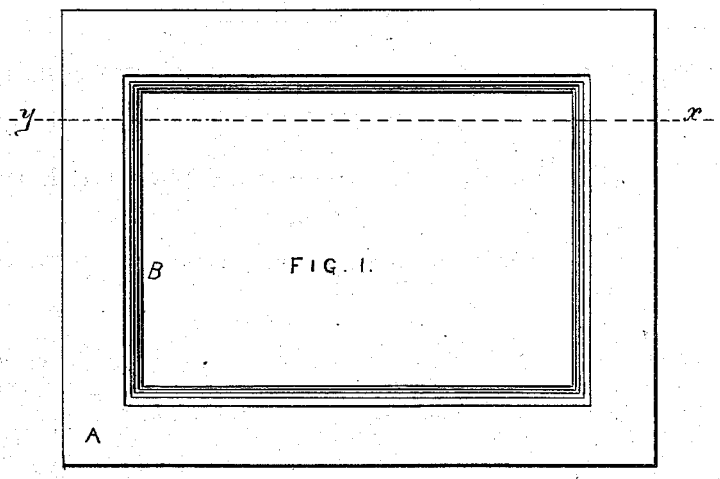


FIG. I.

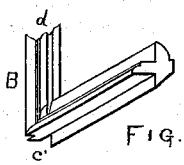


FIG. III.


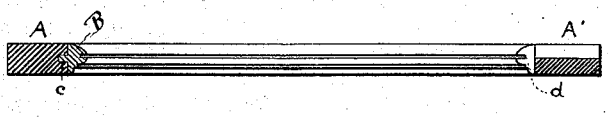


FIG. II.

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WITNESSES { Thos. Wm. Clarke
H. H. Raymond

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

# UNITED STATES PATENT OFFICE.

GEORGE A. KEENE, OF LYNN, ASSIGNOR TO HIMSELF AND C. M. CLAPP, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN CARRIAGE-WINDOWS.

Specification forming part of Letters Patent No. **163,016**, dated May 11, 1875; application filed March 29, 1873

*To all whom it may concern:*

Be it known that I, GEORGE AUGUSTUS KEENE, of Lynn, in the State of Massachusetts, have invented an Improvement in Setting Carriage-Glass, of which the following is a specification:

This invention is intended to obviate the rattling and breaking of glass in carriage-windows. It consists in the application of a scarfed molding of rubber set into the sash, and into which the glass is set in a way which entirely embeds the edge of the glass in an elastic bead.

In the drawing, Figure 1 is an elevation of one side of the sash with molding. Fig. 3 is a perspective of the corner of the elastic molding without sash or glass. Fig. 2 is a section through line *x x* of Fig. 1, showing above, in two detached views, the clamping-molding *a* and the the binding-plate *b*.

A sash, A, is made of suitable material. On the inner edge of three sides is formed a groove, *c*. A rubber molding having a projecting tongue to fit this groove is prepared, which has on the side opposite the tongue another fine groove, *d*, for the glass. This molding may be of any ornamental configuration, as shown at B. The groove *d* should be out of center, or on one side of the middle of the wood or other outer frame. In Fig. 3 I denotes the tenon on the back of the molding. The fourth side of the sash is different from the other three, as shown at A, Fig. 2. The bar of the sash is in two parts, one of more than half the thickness of the other bars and framed in with them. The sash thus prepared, with the molding cut into place and adjusted so that the groove *d* shall be adjusted to clear the surface of A′, a glass is slipped into the groove *d* and pushed down into place and position. Another molding is now fitted in from the side, as shown at *a*, pressing upon the edge of the glass and upon one side, and this is provided with a projection toward the sash, over which the binding-plate laps, which last is screwed or nailed firmly to A′.

The moldings used may be made in lengths and cut up, as desired, and the rubber used for the same may be replaced by any elastic waterproof material of about the consistency and elasticity of car-spring rubber.

I claim and desire to secure by Letters Patent—

1. The rubber molding B, provided with groove *d* and scarfed into the sash, substantially as described.

2. The rubber molding *a*, framing one side of the glass and clamped into the sash, substantially as described.

GEO. A. KEENE.

Witnesses:

MOODY MERRILLS,

THOS. WM. CLARKE.