(No Model.)

A. AYERS.

SASH HOLDER.

No. 329,803. Fig. 1. Patented Nov. 3, 1885.

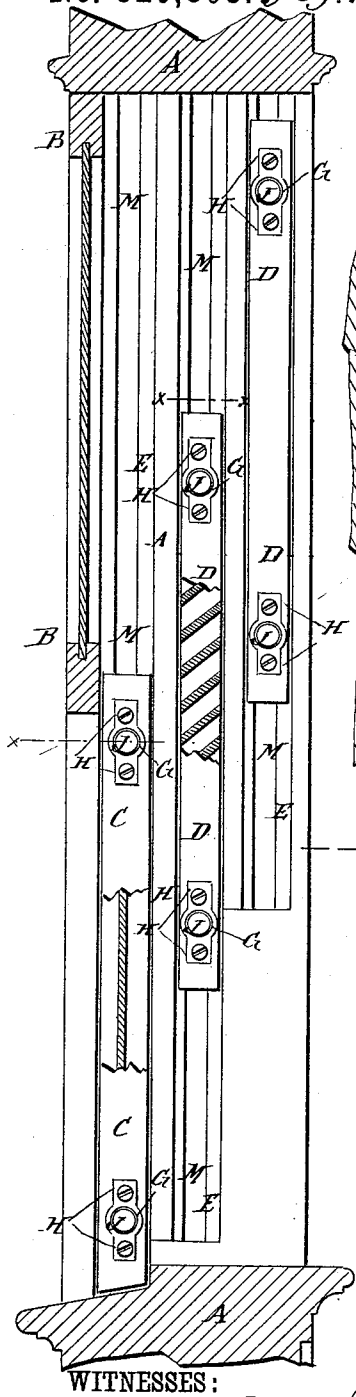


Fig. 2.

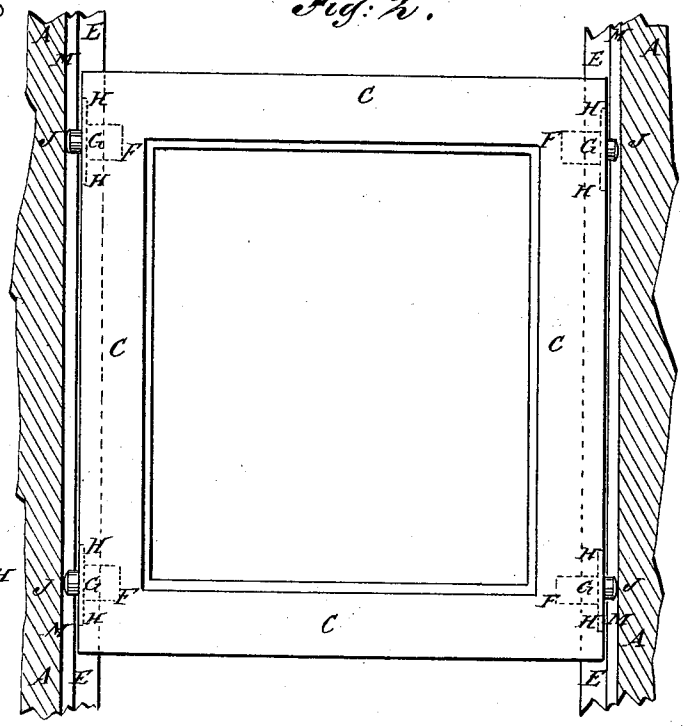
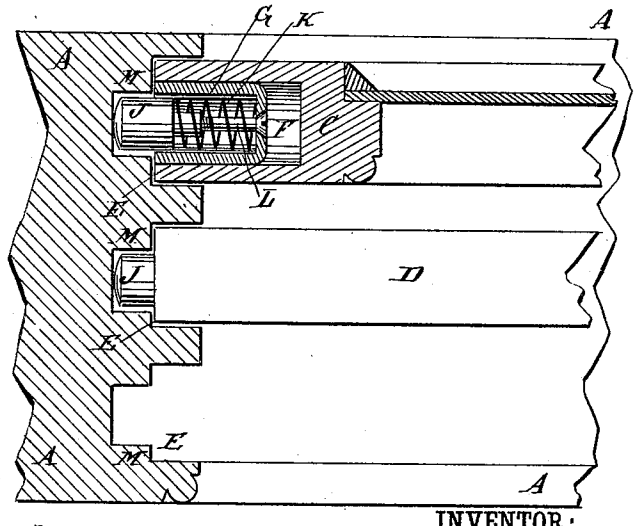


Fig. 3.



WITNESSES:

Chas. Nida.

C. Bedgwick

Fig. 5.

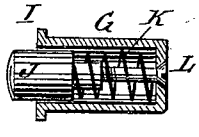
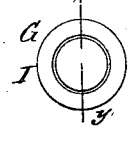


Fig. 4.



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UNITED STATES PATENT OFFICE.

ALBERT AYERS, OF RAHWAY, ASSIGNOR TO HIMSELF, AND WILLIAM R. WILSON, OF ELIZABETH, NEW JERSEY.

SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 329,803, dated November 3, 1885.

Application filed July 1, 1885. Serial No. 170,362. (No model.)

To all whom it may concern:

Be it known that I, ALBERT AYERS, of Rahway, in the county of Union and State of New Jersey, have invented a new and useful Improvement in Window-Sash Holders, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional elevation of a car-window to which my improvement has been applied. Fig. 2 is a sectional front elevation of a part of the same. Fig. 3 is a sectional plan view of a part of the same, taken through the broken line *x x x x*, Fig. 1. Fig. 4 is a front elevation of one of the holders, showing a slight modification. Fig. 5 is a sectional side elevation of the same, taken through the line *y y*, Fig. 4.

The object of this invention is to provide window-sash holders for car-windows, carriage-windows, house-windows, and other windows, constructed in such a manner as to hold the sash securely in any position into which it may be adjusted, and prevent the sash from rattling and from wearing or marring the casing.

The invention consists in the construction and combination of various parts of the window-sash holders, as will be hereinafter fully described, and then claimed.

I will describe my improved window-sash holder as applied to a car-window; but do not limit myself to that use, as it can be applied with equal advantage to various other kinds of windows.

A represents the window-casing. B is the stationary outside panel. C is the sash-frame. D are the blind-frames, and E are the grooves in which the sash and blind frames move up and down. In the upper and lower parts of the outer side bars of the sashes C D are bored holes F, in which are inserted metal sockets G, which may have lugs H upon the opposite sides of their outer ends to receive screws for fastening the said sockets in place, as shown in Figs. 1 and 2; or the sockets G may have a narrow flange, I, around their outer ends to prevent them from being driven into the holes F too far, as shown in Fig. 5.

J are short cylindrical plugs, of hard rubber or other suitable material, which are fitted into the outer ends of the sockets G, and have their outer ends rounded, as shown in Figs. 2, 3, and 5, to give them a smooth bearing against the casing A. The plugs J are held outward by spiral springs K, interposed between their inner ends and the bottoms of the sockets G, which may be centered upon the said inner ends of the plugs J by central projections formed upon the said inner ends. The inner ends of the sockets G are perforated centrally to receive screws L, which are screwed into the inner ends of the plugs J, or into the projections formed upon the said inner ends. The screws L are designed to prevent the plugs J from being pushed from the sockets G by the springs K when the sashes are taken out of the casings. The outer ends of the plugs J enter grooves M, formed in the casings A at the bottom of the sash-grooves E, which are made of such a width as to receive and fit upon the plugs J, and thus hold the sashes from rattling.

By using springs K of different strengths the plugs J can be made to press against the bottoms of the grooves M with more or less force, as the weight of the sashes may require.

The holders can be applied to sashes provided with balancing-weights to hold the said sashes from rattling, in which case the balancing-weights can be made lighter than would otherwise be necessary.

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

In window-sash holders, the combination, with the socket G, the plug J, and the spiral spring K, of the screw L, substantially as herein shown and described, whereby the said plug will be held securely in place and can be readily detached, as set forth.

ALBERT AYERS.

Witnesses:
JAMES T. GRAHAM,
C. SEDGWICK.