

J. H. MILLER.
WINDOW PANE HOLDER.
APPLICATION FILED OCT. 9, 1908.

926,348.

Patented June 29, 1909.

Fig. 1.

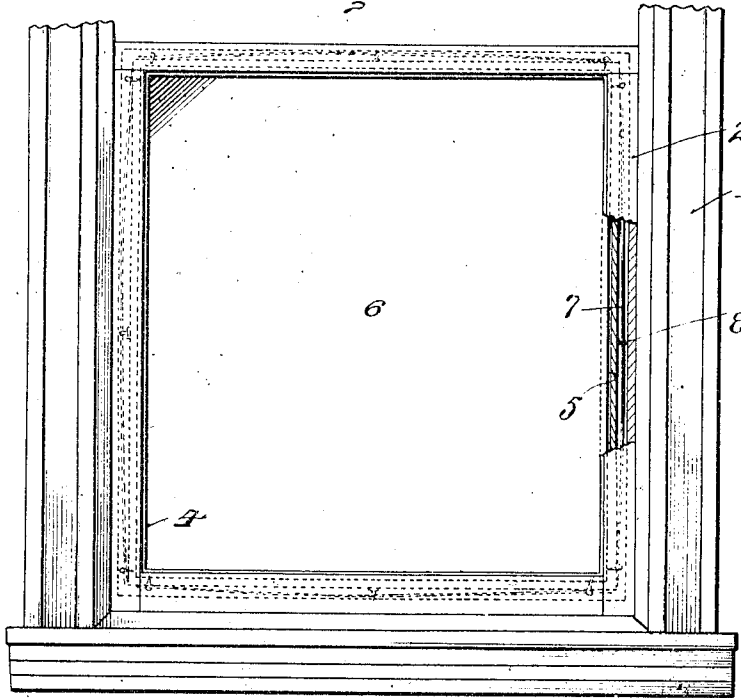


Fig. 2.

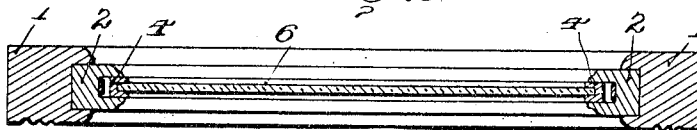
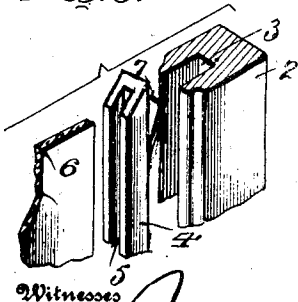


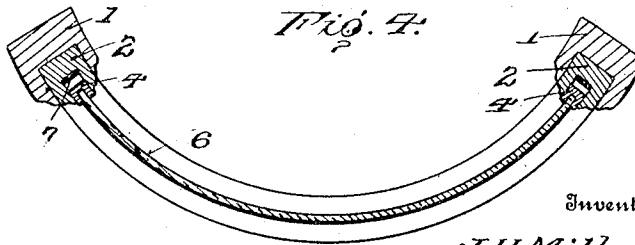
Fig. 3.



Witnesses

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Fig. 4.



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UNITED STATES PATENT OFFICE.

JOSEPH H. MILLER, OF MOSS, TENNESSEE.

WINDOW-PANE HOLDER.

No. 926,348.

Specification of Letters Patent.

Patented June 29, 1909.

Application filed October 9, 1908. Serial No. 453,951.

To all whom it may concern:

Be it known that I, JOSEPH H. MILLER, citizen of the United States, residing at Moss, in the county of Clay and State of Tennessee, have invented certain new and useful Improvements in Window-Pane Holders, of which the following is a specification.

The object of my invention is to provide a device adapted to adjustably hold a transparent partition within a frame and more particularly designed for use in connection with window sashes and doors wherein panes of glass are employed.

The invention further contemplates the construction and arrangement of auxiliary frame sections secured to a window sash or frame proper, whereby the glass partition is detachably held in position within the sash or frame without the use of facing strips or putty and whereby the introduction or withdrawal of the glass with the least possible effort on the part of the operator is secured. The frame sections constituting the pane holder may be varied in shape to conform with windows or frames of any character but for illustrative purposes they are shown in connection with an ordinary window of rectangular formation.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a front elevation of the device in use with an ordinary window sash. Fig. 2 is a horizontal sectional view thereof. Fig. 3 illustrates in detail the sections of the device and window sash, and Fig. 4 is a modification illustrating the device in use with windows of varying shape or formation.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Referring to the drawings the numeral 1 designates a window frame of ordinary construction and 2 the window sash having grooves 3 formed in its inner edges and adapted to receive the frame sections 4 of the pane holder. The said sections when placed in position in the sash are capable of movement at right angles to the length of the grooves 3 and independent of the cooperating sections in the other sides of the sash.

The numeral 5 designates grooves formed in the exposed edges of the frame sections 4, and 6 designates the glass or other transparent partition, the edges of which fit within the grooves 5 and are held in engagement therewith by springs 7 secured to both ends of the sections and interposed between said sections and sash 2. The movement of the sections 4 and the tension exerted upon the springs 7 when said sections are forced to occupy a position within the grooves 3 while introducing or removing a pane, is limited by stay pins 8 secured in the rear or concealed edges of said sections intermediate of their ends and by means of which the spring is prevented from buckling.

With the arrangement of the several parts as shown the glass partition 6 is held in its proper relative position within the frame by the resiliency of the springs 7 exerted upon the rear edges of the frame sections 4, and when desired the glass may be easily and quickly introduced or withdrawn by movement of the sections within the grooved edges of the sash. Extreme concerted outward movement of the sections 4 from the sash 2 in the absence of the glass pane is prevented by the cooperating beveled end formation of said sections within the sash. If desired the sections 4 may be removed by the manipulation of one section to bring the beveled ends clear of the adjacent sections after the glass partition has been removed.

As will be obvious the entire device is adjustably arranged and fitted to the grooved inner edges of a window sash or other frame, and possesses many advantages over the ordinary method of securing transparent window partitions.

Having thus described the invention, what is claimed as new is:

1. The combination with a window sash having grooves formed in its inner edges, of independent frame sections of less depth than and mounted in said grooves and movable therein at right angles to the length of the grooves, a transparent partition secured at the edges of said independent frame sections, and springs interposed between said sash and frame sections adapted to retain said sections in engagement with said transparent partition.

2. In a window pane holder, the combination with a sash provided with grooves in its inner edges, of a transparent partition, independent frame sections of less depth than

and adapted to fit within the grooves in said sash and provided with grooved edges designed to engage the edges of said partition, said sections being capable of movement
5 within and at right angles to the length of said sash grooves, springs interposed between said sash and frame sections adapted to retain said sections in engagement with said transparent partition, and pins secured to

said frame sections adapted to support said 10 springs intermediate of their ends.

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

JOSEPH H. MILLER.

Witnesses:

JAMES BILLINGSLEY,
ARSON MONDAY.