

(No Model.)

F. SHEALY, Jr.
SASH HOLDER.

No. 472,276.

Patented Apr. 5, 1892.

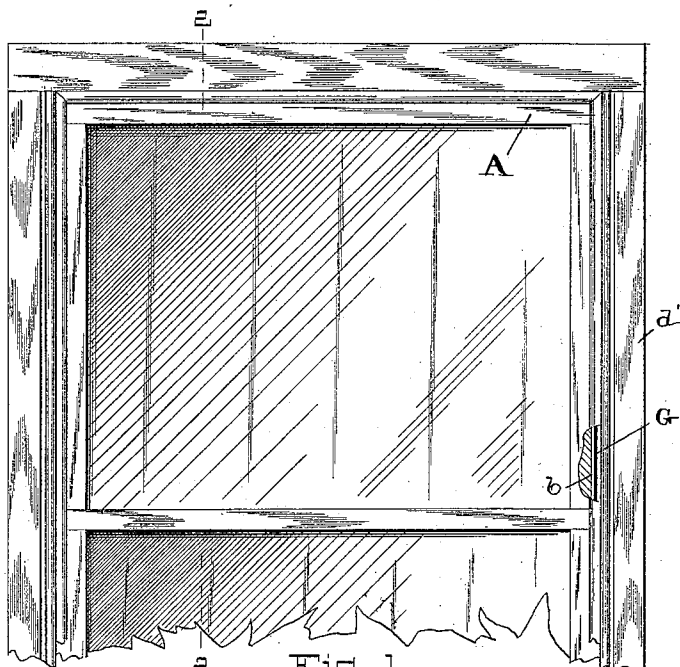


Fig. 1.

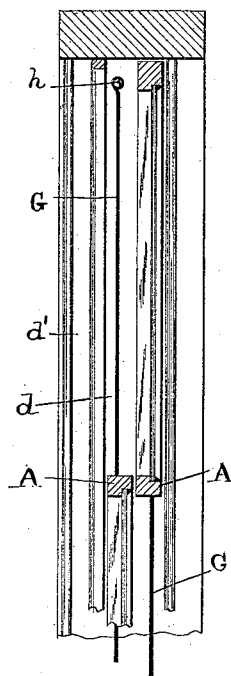


Fig. 2.

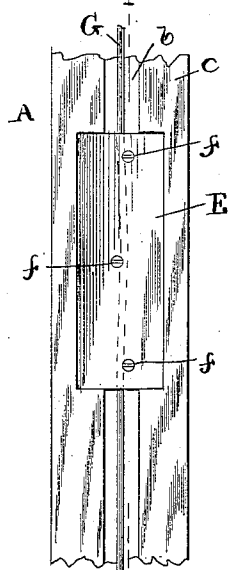


Fig. 3.

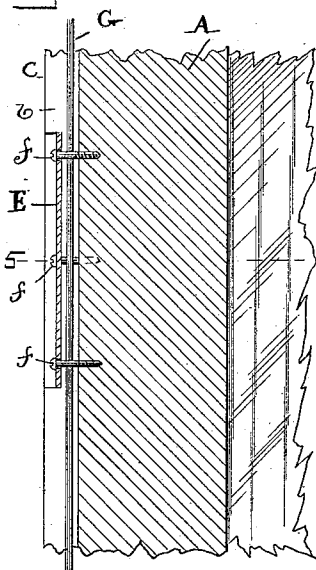


Fig. 4.

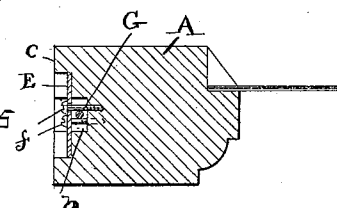


Fig. 5.

Witnesses:
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UNITED STATES PATENT OFFICE.

FRED SHEALY, JR., OF BUCYRUS, OHIO.

SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 472,276, dated April 5, 1892.

Application filed December 4, 1891. Serial No. 413,974. (No model.)

To all whom it may concern:

Be it known that I, FRED SHEALY, Jr., a citizen of the United States, residing at Bucyrus, in the county of Crawford and State of Ohio, have invented certain new and useful Improvements in Sash-Holders, of which the following is a specification.

This invention relates to an improved sash-holder for application to the frames and sashes of windows for the purpose of sustaining the sash at any desired elevated position.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a view of part of a window frame and sash to which my improved holder is applied. Fig. 2 is a vertical section of a window-frame, showing the sash-holding wire attached. Figs. 3, 4, and 5 show a broken portion of the sash and detail views of the device.

The sash A has a vertical groove *b* on its edge *c*, that slides up and down in the ordinary slide-groove *d* of the window-jamb *d'*, which groove is formed by beads or strips secured to the window-casing in the usual way. A metal plate E bridges over this groove and is secured by pins or screws *f*—two or three in number—which are placed out of a true vertical line, as shown in Fig. 3. In the present instance three of these screws are shown and they have a zigzag or “staggered” position. This plate E sets in a mortise on the edge of the sash, so that its outer surface will be flush with said edge.

A sash-holding wire G is secured by each end and has vertical position against the slide-groove *d* of the window-jamb. A screw or pin *h* is employed to fasten each end of the wire, while the entire length of the wire intermediate of said ends is free of any fastening and is flexible throughout its length. The flexible wire G passes along the groove *b* in the sash and under the plate E and between the staggered pins *f*. It is simply necessary that this wire shall pass along at one side of the first and at the opposite side of the sec-

ond pin. If a third pin is used, the wire should pass along it at the same side as at the first pin. It will now be understood that upon raising or lowering the sash A the pins *f* will slide along the flexible wire G, the flexure in which where the pins bear will be compelled to yield and change as the sash moves. It will be seen that the pins act as a slipping clamp or grip on the wire. The flexure in the wire where the pins bear produces a degree of friction or grip that will sustain the sash at any point of elevation. One of these wires and slip-grip devices will preferably be placed at each side of the window frame and sash.

The device acts automatically and is simple and cheap. The arrangement is very durable and will not get out of order, because the plate E holds the pins rigidly and prevents them from loosening in the wood of the sash, as they would eventually by the tension of the wire if they had no support like the plate at their outer ends. The plate also is the means of confining the wire in the groove and between the pins, as if it were not for this plate the play of the sash in the casing would be sufficient to allow the wire to work free from between the pins and out of the groove.

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

The combination of a vertical wire secured to the window-frame at each end and flexible between said ends, the sash provided in its edge with a vertical groove to receive said wire, a plate bridging said groove, and pins securing said plate to the sash and staggered to form a slipping-grip device, through which the wire passes, the plate serving to hold said pins rigid and confine the wire between them, as set forth.

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

FRED SHEALY, JR.

Witnesses:

O. K. PAESSLER,
H. E. VOLK.