

(No Model.)

W. STURM.
WINDOW FRAME.

No. 254,068.

Patented Feb. 21, 1882.

Fig. 1.

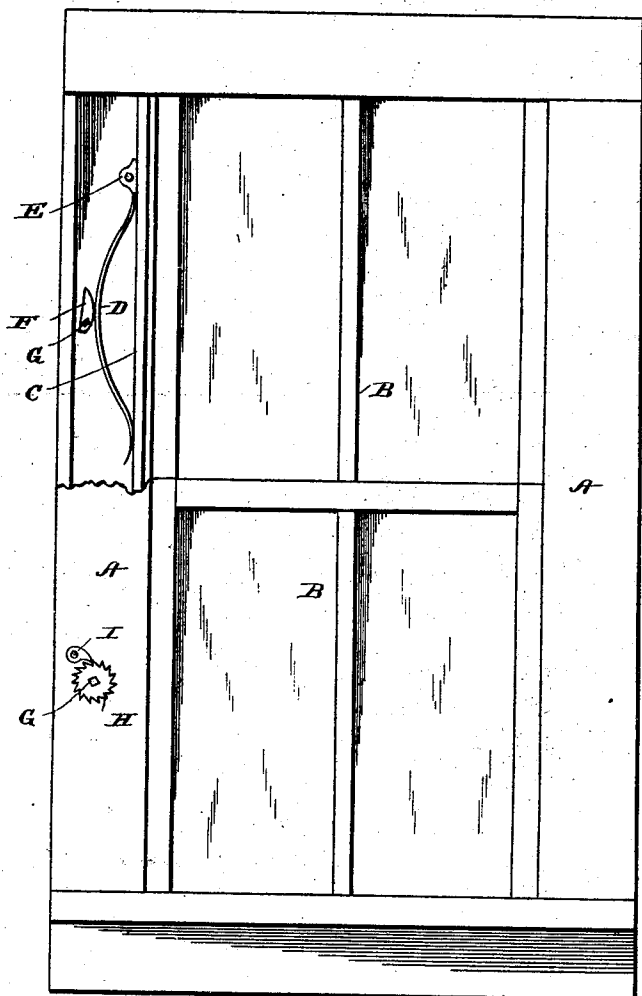
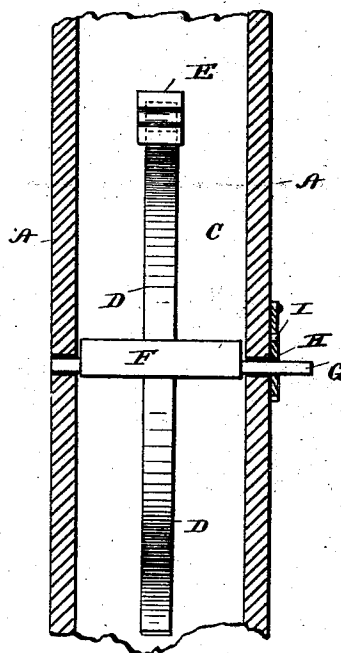


Fig. 2.



Witnesses,

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UNITED STATES PATENT OFFICE.

WILLIAM STURM, OF GALVESTON, TEXAS.

WINDOW-FRAME.

SPECIFICATION forming part of Letters Patent No. 254,068, dated February 21, 1882.

Application filed December 2, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM STURM, of Galveston, in the county of Galveston, and in the State of Texas, have invented certain new and useful Improvements in Window-Frames; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention has for its objects to provide an improved means for holding the sash of a window in any position to which it may be elevated, and at the same time permit the sash to be readily moved up or down, as more fully hereinafter specified. These objects I attain by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 represents a front view of my improved frame and sash, showing a portion of the frame broken away to illustrate the mechanism for holding the sash; and Fig. 2 represents a vertical sectional view of one side of the frame, showing said mechanism.

The letter A indicates the window-frame, which is constructed with one or both sides hollow, as indicated in the drawings.

The letter B indicates the sashes, which are constructed in the usual manner.

The frame at one or both sides adjoining the sashes is provided with movable vertical strips c, which are held against the sides of the sashes with a yielding pressure by means of flat springs D. The said springs at one end are secured to

lugs E, attached to the inner sides of the movable strips, the other ends of said springs bearing against said strips, as shown. The springs are held against the sashes by means of the cams F, which are mounted on the transverse shafts G, journaled in the front and rear of the frame, one end of each shaft projecting beyond its bearing and being provided with a ratchet, H, controlled by a pawl, I, by means of which the tension of the spring may be regulated. The projecting ends of the shafts are squared, so that they may be turned by means of a suitable key.

The operation of my invention will be readily understood from the foregoing description without further explanation.

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

The combination, with a window-frame and the sashes thereof, of the movable vertical strips, the flat springs secured thereto, and the cams mounted upon the transverse shafts, the latter being provided with ratchets controlled by suitable pawls, whereby the tension of the springs may be regulated, substantially as specified.

In testimony whereof I affix my signature, in presence of two witnesses, this 5th day of November, 1881.

WILLIAM STURM.

Witnesses:

CHARLES KAUFFMANN,
FRIEDRICH SCHMIDT.