

(No Model.)

J. F. HAMILTON.

SASH HOLDER.

No. 309,300.

Patented Dec. 16, 1884.

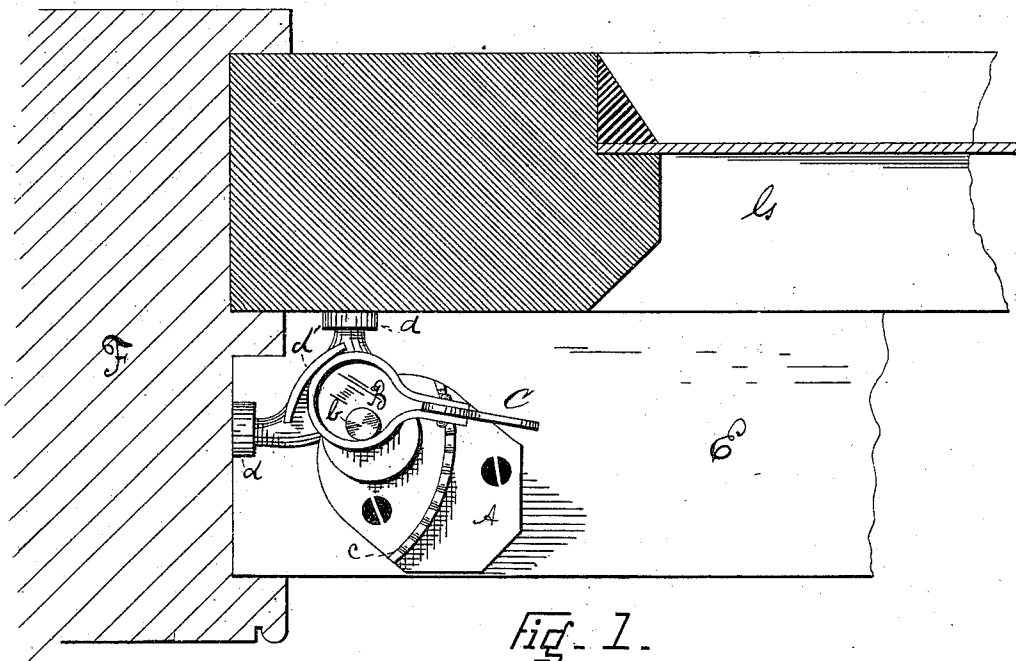


Fig. 1.

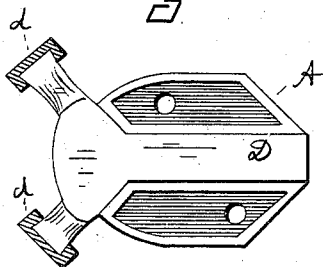


Fig. 2.

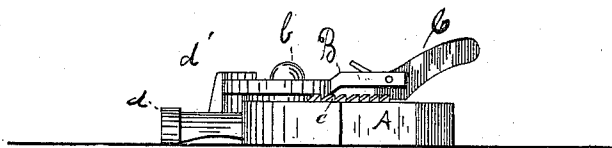


Fig. 3.

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JAMES F. HAMILTON, OF CONNERSVILLE, INDIANA.

SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 309,300, dated December 16, 1884.

Application filed February 18, 1884. (No model.)

To all whom it may concern:

Be it known that I, JAMES F. HAMILTON, a citizen of the United States, residing at Connorsville, county of Fayette, State of Indiana, have invented certain new and useful Improvements in Window-Sash Lock and Holder, of which the following is a specification.

The invention relates to devices for locking and holding window-sashes. Its object is to provide a cheap convenient means to hold the sashes and lock them in any position.

The invention consists of a peculiar arrangement of bolt, case-bolt, and means for locking the bolt, whereby either or both sashes may be held and locked in any position desired, and it will be fully understood from the following description of the accompanying drawings, in which—

Figure 1 is a transverse section of a portion of a window-frame and its sashes, taken through the upper sash, and showing my improved locking device secured on top of the lower sash. The device is here shown in top plan view with the bolt protruded, locking the sashes. Fig. 2 is an inverted plan view of my device with the bolt retracted. Fig. 3 is a front elevation of the device in the position represented in Fig. 1.

The bolt-case is cast with a circular projection to form a seat for the cam-lever B, which is eccentrically pivoted upon plate or case A by pin *b*. Upon the upper part of the case is also a ratchet-segment, *c*, to engage a pawl, C, which is pivoted in the arm of the cam B. The under side of the plate or case A is cast with a groove to receive the shank of the two-armed bolt D, which is loosely placed within the groove which it fits, its lower side or bottom being nearly flush with the bottom of the case A, so that it will slide freely when the case A is secured upon the meeting-rail of the lower sash, E, as seen in Fig. 1. The bottom of the case is also shelled out in casting, so as to save metal. Upon each arm of the bolt D is fitted a rubber tip or buffer, *d*, to avoid injuring the sash G and frame F. From

the top of bolt D projects a segmental stud, *d'*, to engage the periphery of cam B. By this means the arms of the bolt are simultaneously pressed against the frame F and sash G, and held firmly where placed by the pawl C engaging the teeth of segment *c*. When the pawl C is thrown up, the sashes are of course unlocked, as there is nothing but the weight of the bolt bearing against the top sash and frame; but if it is found desirable, the cam B may be made with a slot near the edge, which would receive a pin projecting up from the bolt D. This pin, by traversing the slot as the cam is turned in either direction, would either protrude or retract the bolt; or the shank of the bolt might be diminished and a spring coiled around it, which would bear against the case and rear of the bolt, and thus throw the bolt back so soon as the pawl is released from segment *c*.

In Fig. 2 I have shown the buffers *d* in section, to illustrate how they are held by the flaring ends of the bolt; but when for additional security it is desired to have the ends of the bolt-arms enter holes in the frame and upper sash to lock the sashes firmly in the closed position, I make the bolt-arms hollow and fit them with a rubber plug, which projects beyond the end of the bolt to engage the sash G and frame F.

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

In a sash-holder, the combination of the bolt-case, having pivoted on top a cam-lever to engage a projection on the bolt, and a ratchet and pawl to lock the lever, with a two-arm retaining-bolt, the said arms being substantially at right angles to each other, so as to respectively press against the window-frame and upper sash when the bolt is shot out, substantially as described.

JAMES F. HAMILTON.

Witnesses:

CHARLES E. BARNARD,
MELVILLE STANT.