

A. Ridell,
Sash Holder.

N^o 51,222.

Patented Nov. 28, 1865.

Fig 1.

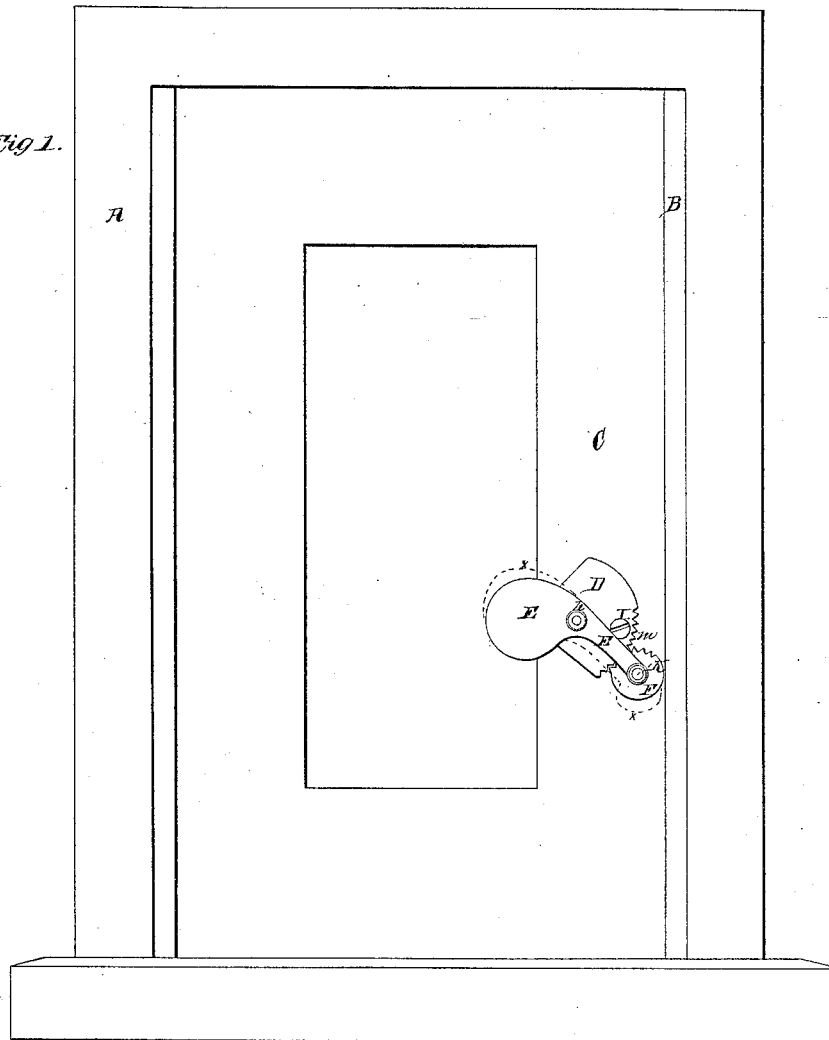


Fig 2.

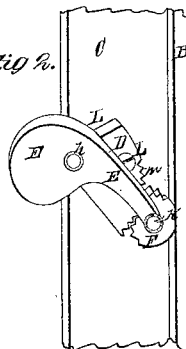
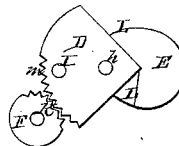


Fig 3.



Witnesses.

Louis Vankauf
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UNITED STATES PATENT OFFICE.

ARCHIBALD RIDELL, OF CHICAGO, ILLINOIS.

SASH-LOCK.

Specification forming part of Letters Patent No. 51,222, dated November 28, 1865.

To all whom it may concern:

Be it known that I, ARCHIBALD RIDELL, of Chicago, in the county of Cook and State of Illinois, have invented an Improved Sash-Lock; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings and letters of reference marked thereon, making a part of this specification, in which—

Figure 1 is a front elevation of my improved sash-lock, including the sash to which it is attached and the window-frame against which it operates. Fig. 2 is a perspective representation of my improved sash-lock, including a broken section of the sash and frame. Fig. 3 is an elevation of the back side of the lock.

The object of my invention is to provide a convenient lock or fastening that can be attached to the sash of a window and operate against the stop of the window-frame in such a manner as to hold the sash up in any required position.

To enable others skilled in the art to make and use my invention, I will describe the method of constructing and using the same.

First, as a foundation or substantial part of my sash-lock, I use the plate D, which in form is the quadrant of a circle, and on the circular edge, as shown at *m*, I make the ratchet which is used in operating the ratchet-wheel F.

l represents the common wood-screw by means of which D is secured to the sash C.

At *E'* is represented the lever which holds the ratchet-wheel F in the proper position relative to the ratchet *m*, the wheel F being attached to the lever *E'* by means of the rivet *h* in such a manner as to allow the wheel F to revolve upon the same as an axis.

At *h* is shown the rivet which secures the lever *E'* to the plate D, so as to give a partial revolution to the lever, as shown by the dotted lines *x x*, Fig. 1.

At *E* is shown the balancing-weight, which is an enlargement of the lever *E'*, and is used to hold up the end of the lever supporting the wheel F, also as a convenient knob by means of which the lever *E'* and ratchet-wheel F can be operated when raising or lowering the sash C.

At Figs. 2 and 3 are shown the shoulders L on the back side of the balancing-weight E, which are used to lock or shut against the plate D to prevent the ratchet-wheel F from being carried off from the ratchet *m*.

Operation: In the drawings shown at Figs. 1 and 2 my sash-lock is represented attached to the sash C in the position that I intend to use the same. In the drawings the sash is represented as being locked to prevent the same from falling down. In raising the sash all that is required is to apply the necessary power to the sash in the usual manner; but in letting down the sash it is first necessary to raise the same in order to loosen the ratchet-wheel F and hold the lock in the position shown by the dotted lines *x x* until the sash C has been run to the required position in the window-frame A; then adjust the wheel F against the stop B, and the sash will be held in a firm position.

It will be seen that the distance from the rivet *h* to the point occupied by the wheel F on the stop B is greater than a direct line to the stop, by which means sufficient leverage is given to the sash-lock to overcome any ordinary lateral motion of the sash C.

Having fully described my device, what I claim as my invention, and desire to secure by Letters Patent of the United States, is—

The combination of the weighted lever with the sector D and wheel F, constructed and arranged substantially as described.

ARCHIBALD RIDELL.

Witnesses:

LEWIS UMLAUF,
GEO. L. CHAPIN.