

F. E. BROWN.
Sash-Holders.

No. 154,944.

Patented Sept. 15, 1874.

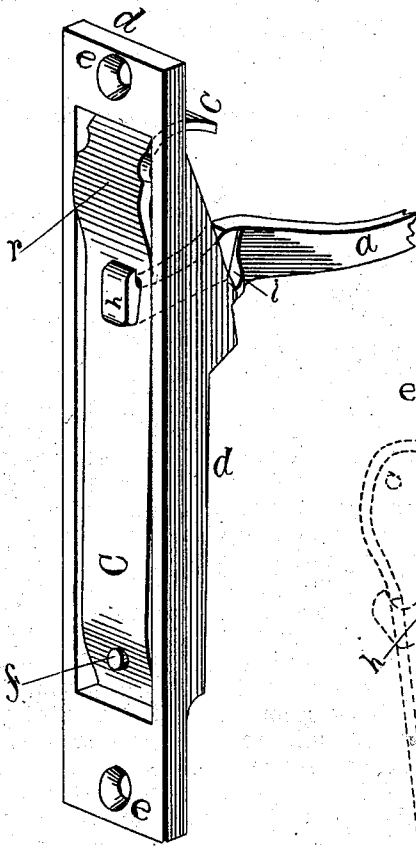


FIG. 1.

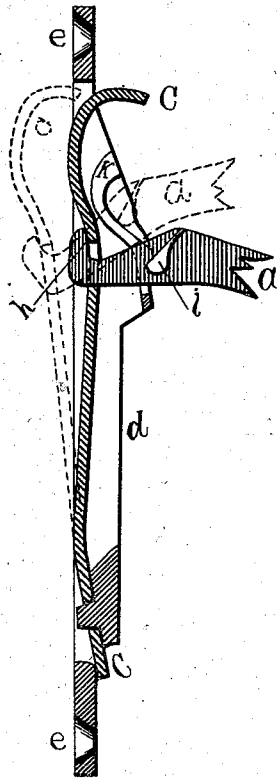


FIG. 3.

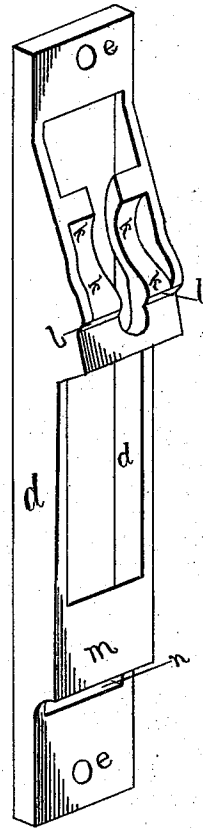


FIG. 2.

WITNESSES.

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IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. **154,944**, dated September 15, 1874; application filed July 18, 1874.

To all whom it may concern:

Be it known that I, FRANK E. BROWN, of Pawtucket, in the county of Providence and State of Rhode Island, have invented certain Improvements in Window or Sash Supporters and Fasteners, of which the following is a specification:

My said invention relates to a sash or window supporter and fastener; and consists of a spring and lever arranged within a peculiarly-shaped frame-work adapted to the uses required, as will be hereinafter more fully described, and pointed out in the claims.

The accompanying drawing is hereby made a part of this specification, the indicating letters thereon referring to the same parts when repeated.

Figure 1 is a perspective view of the completed device. Fig. 2 is a perspective view of the frame, the spring and lever having been removed. Fig. 3 is a transverse vertical section of the device, the dotted lines showing the natural position of the spring and lever, the darker unbroken lines showing said lever and spring drawn backward and locked, as hereinafter described.

a is a lever, one end of which interlocks with the spring, the other end projecting through the side of the sash far enough to furnish a thumb or finger rest, by which to operate the device. *c* is the spring aforesaid, and *d d* show the peculiarly-shaped frame in which said spring and lever are placed and operated, as hereinafter described. *e e* are screw-holes for attaching the device to the sash. *f* is a pin, cast with said frame, and projecting through a corresponding perforation in said spring. *i* is a lug cast on either side of said lever, and *k k* are raised and curved channels or grooves, in or upon which said lugs rest, and in and along which they slide in using the device, as hereinafter described. *l l* are notches or catches at the higher end of the channels *k*, over which the lugs *i* pass, and which then perform the office of a latch to hold back the lever and spring, as hereinafter described. *m* shows a peculiar base, cast with said frame, on which the pin *f*

is cast; and *n* is a slot at the end of said base, through which the spring *c* projects, as seen in Fig. 3. The head of the lever *a* is sharply crooked, as seen at *h*, and this end passes through a corresponding slot in said spring, hooking on or into said spring, as seen in Figs. 1 and 3.

The application of said device to the sash, and the manner of its subsequent use, are substantially as follows: An excavation is made in the edge of the sash, of sufficient size to receive the frame *d*, and a mortise through the edge of the sash is also made, through which the lever *a* is passed. The device is then secured to the sash by means of screws inserted in the holes *e e*. To raise the window, lift the lever until the lugs *i*, following down the curved grooves *k k*, pass over the notch or catch *l l*, and latch therein. This draws back the spring *c* until its projecting curve at *r* is within the line of the edge of the sash, as shown by the regular lines in Fig. 3. The window may then be easily raised to the desired height. This attained, depress the lever *a*, thus releasing the lugs *i* from the catch *l*, and the liberated spring will then assume the position indicated by the dotted lines in Fig. 3. The curve *r* of said spring bears so strongly against the contiguous part of the window-frame that the sash will be thereby firmly and safely supported at any designated height. The window or sash may be lowered by or in a similar way.

When the window or sash is closed, the curve *r* of said spring passes into a recessed place or cup in the window-frame, and a pin in said cup or recess enters a slot or hole in the curve *r* of said spring. By the interlocking of said pin and spring the window or sash is securely fastened, and cannot be raised until the said spring is drawn away from said pin, and out of said cup or recess, substantially as hereinbefore described.

The simplicity of said device permits it to be easily and cheaply made, and frees it from a liability to get out of order, and from a consequent necessity for frequent repairs.

The catching back or latching of the spring

before raising the sash or window, attained by the parts *i k l*, obviates the common and annoying necessity for holding the spring back by manual force during the raising and lowering of the sash or window.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The frame *d*, having the curved channels *k k*, latch *l*, base *m*, slot *n*, and pin *f*, all in the manner and for the purposes substantially as described and shown.

2. The combination of the curved and slotted spring *c* with the slot *n*, pin *f*, and base *m*, together with the lugs *i*, channels *k k*, and latch *l*, in the manner and for the purposes substantially as set forth.

FRANK E. BROWN.

Witnesses:

THOS. P. BARNEFIELD,
GEORGE H. SMITH.