

Geo. W. Bishop,

Slack Fastener.

No. 108,438.

Patented Oct. 18. 1870

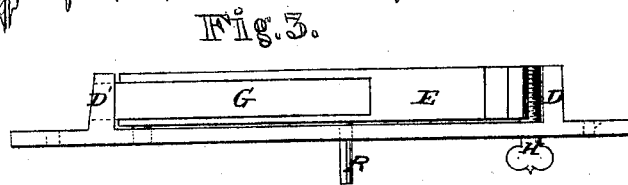
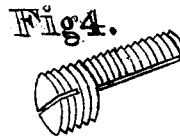
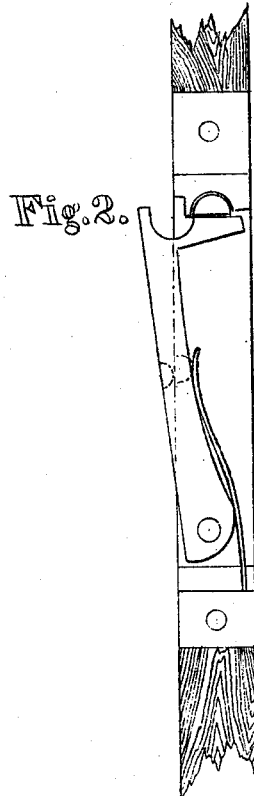
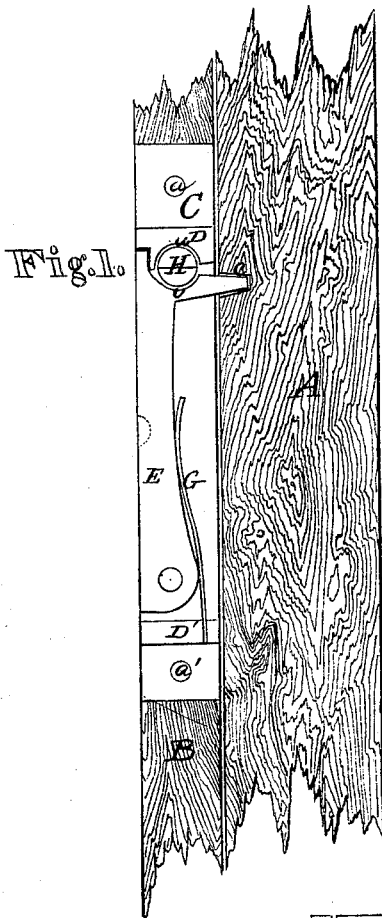


Fig. 6.



Fig. 7.



Witnesses.
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UNITED STATES PATENT OFFICE.

GEORGE W. BISHOP, OF SARATOGA SPRINGS, NEW YORK.

IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. 108,438, dated October 18, 1870.

To all whom it may concern:

Be it known that I, GEORGE W. BISHOP, of Saratoga Springs, in the county of Saratoga and State of New York, have invented a new and valuable Improvement in Window-Sash Fastenings; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a vertical section of a window stile and jamb with my apparatus attached. Fig. 2 is a front view of the jamb with my apparatus attached. Figs. 3, 4, 5, 6, and 7 are details.

My invention relates to means for adjusting and locking the upper sash of a window; and it consists in the novel construction and arrangement of a locking apparatus arranged with the latch and spring, as herein particularly specified.

A of the drawings represents the upper sash of a window, and B the jamb of the frame.

C represents a plate attached to the window-jamb by means of screws in the openings *a a'*.

D and D' represent ears or projections on the face of the plate C, between which the latch next mentioned is arranged.

E represents a latch pivoted to the plate C, as shown, the upper end or flange of which is adapted to pass into one of the openings or notches *c* of the window-sash.

G represents a spring arranged in the ear D', as shown, and operating against the inner side of the latch E.

It will be observed that the ear D has a cir-

cular recess on its lower side corresponding to a similar recess on the top of the flange of the latch. These recesses are formed for the operation of the cam-lock next described, and serve as indispensable adjuncts thereto. They are marked *u* and *v*, respectively.

H represents what I call a "cam-lock." It consists of a round pin passing through the plate C, but formed in the shape of a half-round or semicircular arc inside the plate, adapted to work in the recesses last above mentioned. I sometimes construct this lock with a thumb-piece on its outer end, as shown on Fig. 3. Sometimes I dispense with such thumb-piece and form a slot in the end of the pin, as shown on Fig. 4, and I sometimes form the end of said pin with small openings, as shown on Fig. 5. The keys marked *v'* and *y*, respectively, are adapted to opening the lock when constructed without the thumb-piece.

In places where visits are feared from burglars I recommend that the thumb-piece be dispensed with, and that the lock be adapted to a key in either of the forms shown and described.

The letter R is a bar extending from the side of the latch to aid in operating the same.

What I claim as my invention is—

The lock H, in combination with the recesses *u* and *v*, and with the locking-dog E, pivoted in the casing and held from the window by the spring G, when the same are constructed substantially as and for the purpose specified.

GEORGE W. BISHOP.

Witnesses:

EDWARD P. MASI,

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