

J. W. Elliot,

Sash Holder.

Patented June 12, 1860.

N^o 55,475.

Fig: 1.

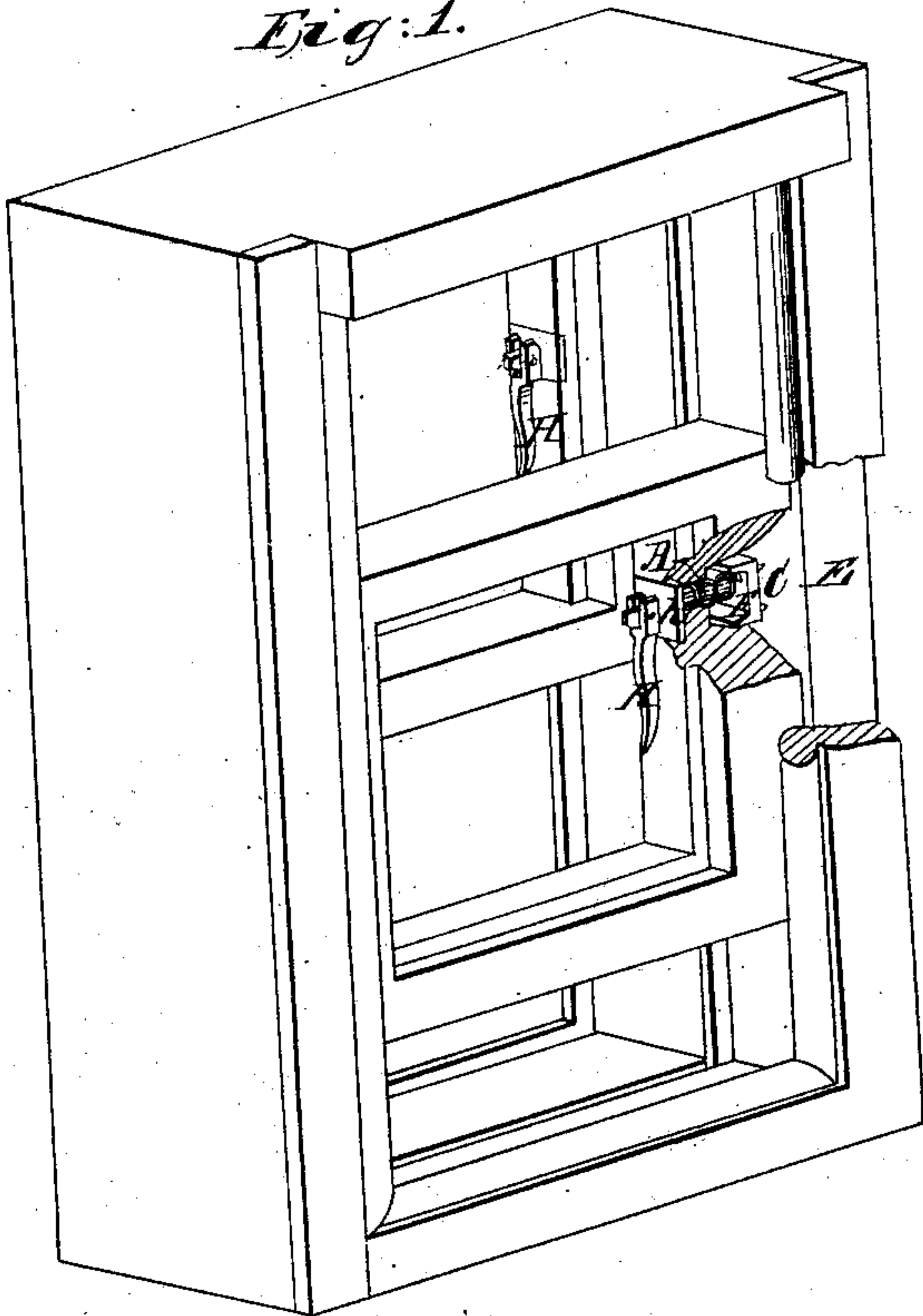
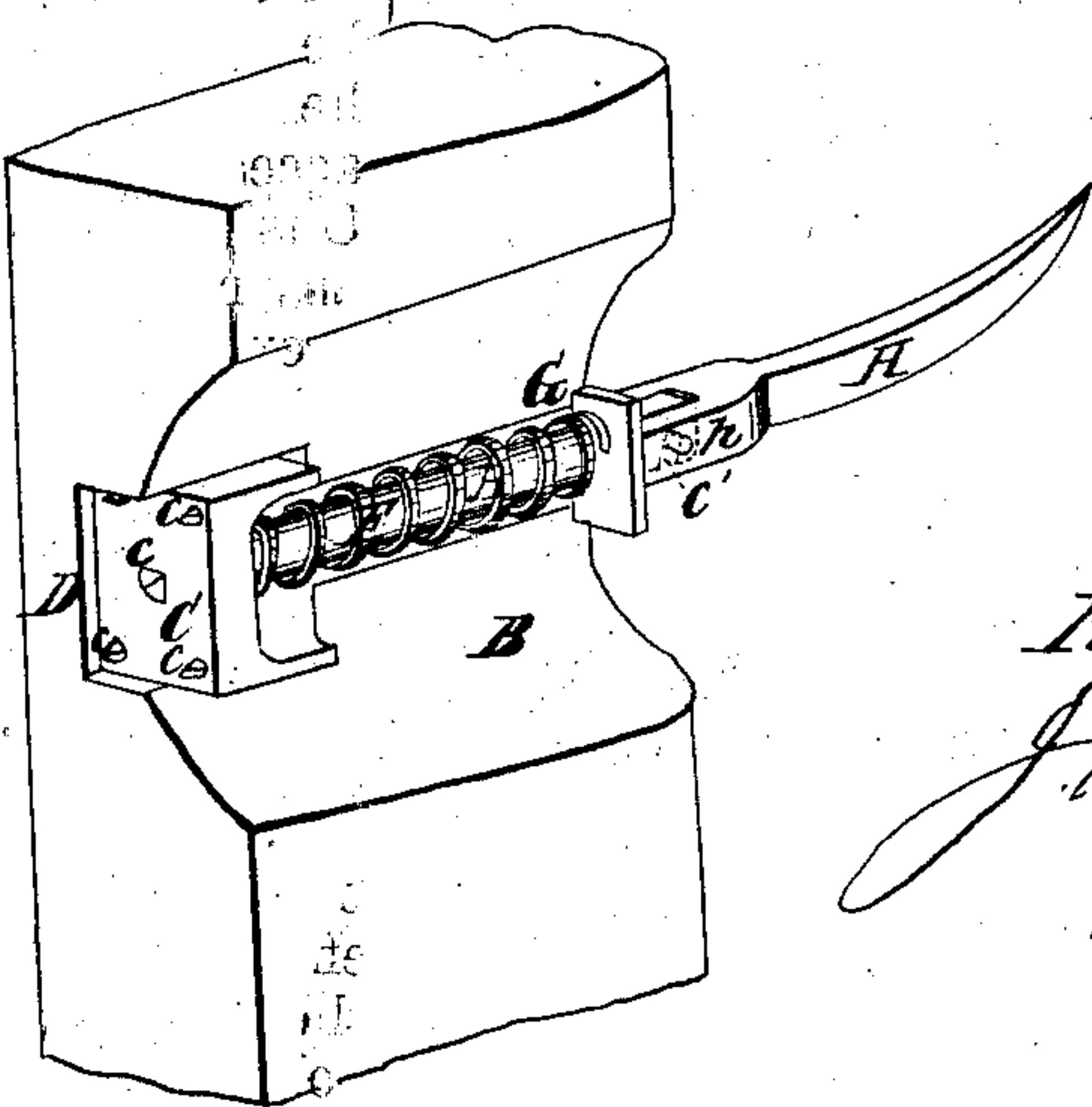


Fig: 2.



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UNITED STATES PATENT OFFICE.

J. W. ELLIOT, OF LEICESTER, MASSACHUSETTS.

IMPROVEMENT IN SASH-FASTENERS.

Specification forming part of Letters Patent No. 55,475, dated June 12, 1866.

To all whom it may concern:

Be it known that I, J. W. ELLIOT, of Leicester, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Sash-Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the nature, construction, and operation of the same, reference being had to the accompanying drawings, which are made a part of this specification, and in which—

Figure 1 is a vertical section of a window-sash, frame, and sheeting with my invention applied, the sash being shown in its locked condition. Fig. 2 is a similar view, showing the sash in its unlocked condition.

Similar letters of reference indicate corresponding parts in the two figures.

My invention relates to a sash-fastener which is not only adapted to sustain the sash at any desired height, but which will securely lock it in its closed position, and at all times press it against the jambs of the window-frame with such a firm and steady pressure as to prevent shaking and rattling from the wind and exclude the latter from the interior of the dwelling or car.

The device consists of a sliding bolt and roughened foot or locking-plate, combined with an eccentrically-pivoted lever and a spiral spring so arranged that the locking-plate is by the spring constantly held in contact with the jamb, so that the sash can neither be raised nor lowered till the plate is retracted by the lever, which is capable of ready detachment from the sliding bolt, in order that the sash when down may securely be locked by the roughened plate, and the means of retracting the latter removed, if desired, to prevent the window being easily hoisted by a person not in possession of the lever.

The following description will enable others skilled in the art to which my invention appertains to fully understand and use the same.

A represents a bolt fitted to slide in a corresponding aperture in the stile B of the window-sash, and formed or provided at its inner extremity with an angular plate, C, which may work snugly within the recess D of the stile B.

The face of the plate C which comes in contact with the jamb E of the window-frame is roughened or formed with pointed projections

c c c, to adapt the plate to take a firm hold upon the jamb and prevent the sash from being moved when acted upon by the spring F. This spring F is designed to be made of very strong steel, and being of helical form, it is placed around the inner end of the bolt A, with one end abutting against the plate C and the other end against the stile B, and the outer portion of the spring is accommodated in the recess G of the said stile.

H is a lever provided with a pivot or fulcrum, *h*, which is slipped into the slot *c'* in the bolt A, in order to attach the lever to the bolt. By this means the lever H is pivoted after the manner of an eccentric, so that when it is caught by the handle end and turned to a position at right angles with the stile of the sash, as represented in Fig. 2, the bolt A and plate C will be withdrawn from the jamb of the window-frame, and the sash may be raised or lowered at pleasure. In the act of retracting the bolt the lever H has its fulcrum or bearing against a plate, I, fastened to the stile of the sash. When the lever H is turned up against the stile of the sash, as represented in Fig. 1, the spring F forces the plate C against the jamb with a force which in degree is much beyond that which is usually derived from the helical springs, which are employed simply as accessories in sustaining the sash, for the plate C is not only intended to sustain the sash at any required height, but constitutes a lock to prevent the sash being forcibly raised.

The spring H holds the entire sash firmly and immovably against the jambs and fittings of the frame, so as to obviate rattling and shaking and prevent the entrance of the wind.

The fulcrum *h* and slot *c* permit the lever H to be readily attached to and detached from the bolt A.

When lever H is detached the end of the bolt A will not project sufficiently to afford an effective hold for the fingers to draw against the force of the spring, and in this sense the bolt, spring, and plate might be properly denominated a "lock," and the lever H the "key" thereof.

If the stile of a sash should be too thin to receive the parts in the manner above described, substantially the same arrangement may be produced by fixing them within a metallic box attached to the stile.

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

1. The combination of the bolt A, plate C, spring F, and lever H, the whole being constructed and arranged to operate as herein described, so as to constitute a sash lock and sustainer.

2. The combination, with the bolt C and lever H, of the fulcrum *h* and lever *c*, permitting the ready attachment and detachment of the lever, as and for the objects specified.

J. W. ELLIOT.

Witnesses:

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