

Gregory & Ensign,

Sash Fastener.

No. 97,502.

Fig. 1.

Patented Dec. 7, 1869.

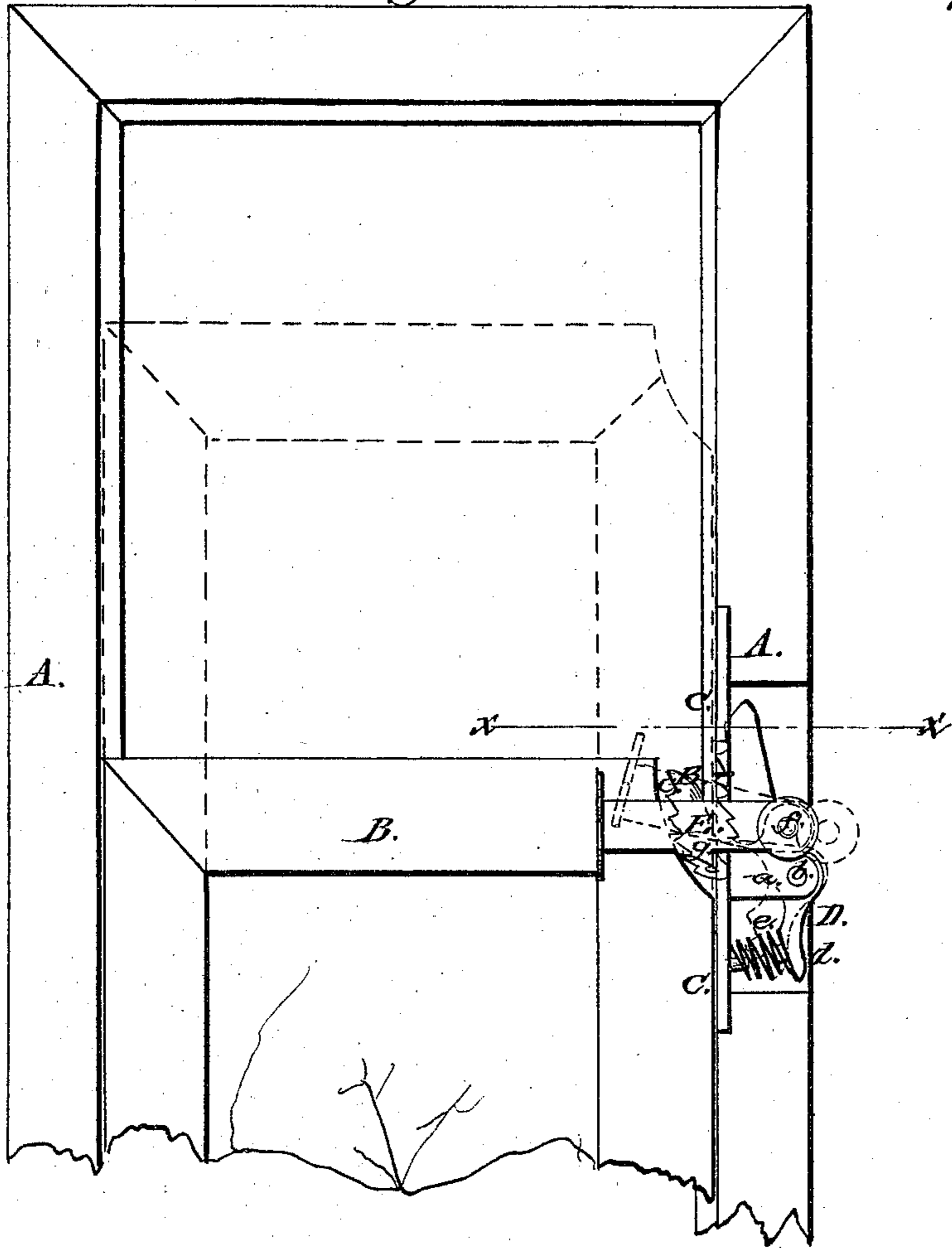
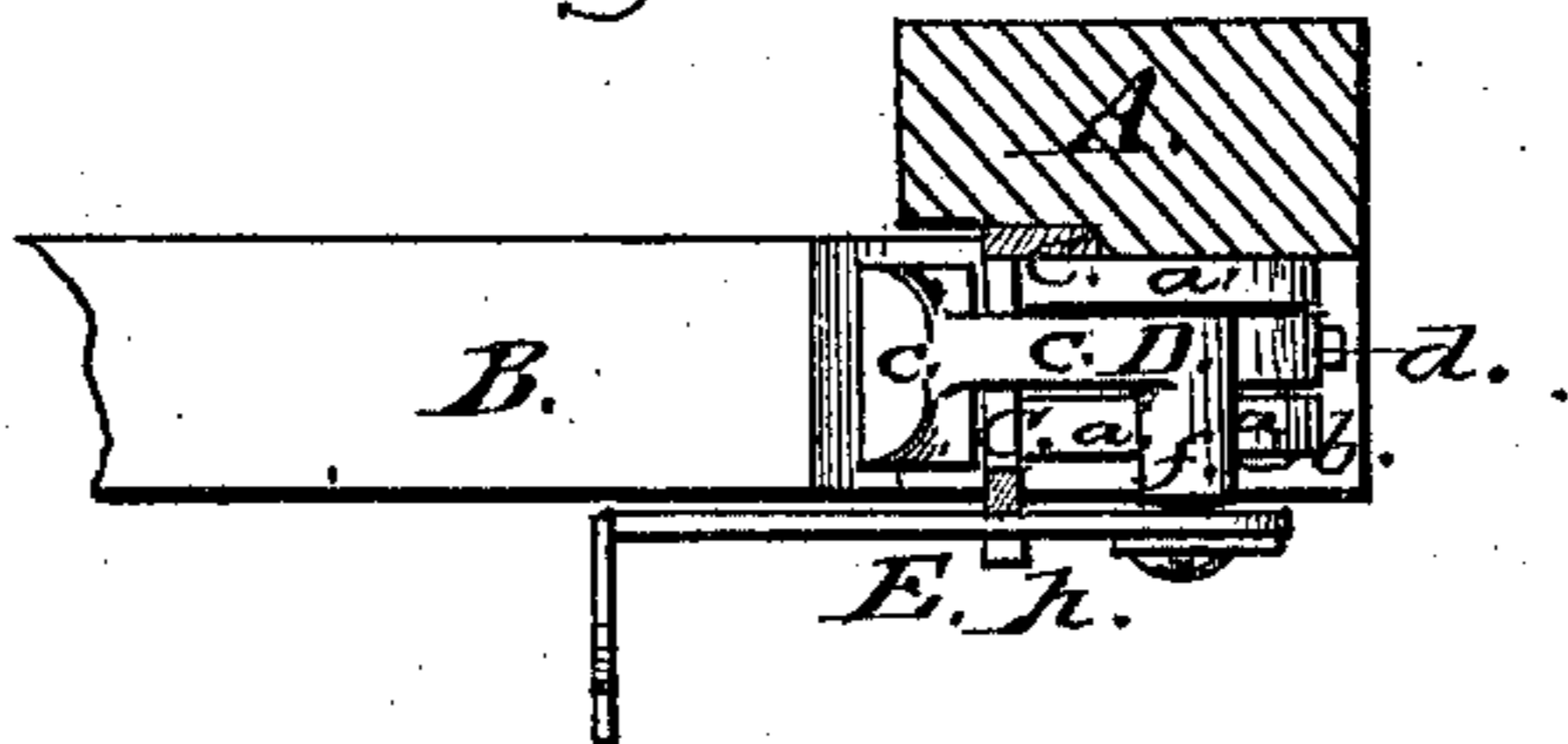


Fig. 1.



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# United States Patent Office.

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CONNECTICUT.

*Letters Patent No. 97,502, dated December 7, 1869.*

## IMPROVED SASH-HOLDER.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern :*

Be it known that we, ARTHUR FRANCIS GREGORY and CHARLES H. ENSIGN, of Bridgeport, in the county of Fairfield, and State of Connecticut, have invented a new and improved Sash-Lock and Fastener; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a front or face view of our improved sash-lock and fastener.

Figure 2 is a detail horizontal section of the same, taken on the plane of the line *x x*, fig. 1.

Similar letters of reference indicate corresponding parts.

Our invention relates to devices for locking and unlocking window-sashes; and

It consists in an improved construction and arrangement of parts, whereby a superior fastener is obtained, one not liable to get out of order, and which admits of a more ready and convenient adjustment.

The invention also consists of a novel bell-crank holder, which is arranged in the frame of a window, and which is, by means of a spring, held against the edge of the sash, so that the sash cannot be lowered unless the holder is thrown off, by means of a lever. The said lever is provided with a projecting lug or notch, whereby it is locked over a fixed plate of the frame, when the sash is lowered, to lock the holder in a notch of the sash, and to prevent the raising of the same.

A, in the drawing, represents a window-frame.

B, a sash in the same.

In the frame A is secured, at the inner edge, a plate, C, which has ears, *a a*, projecting outward into a recess cut into the frame.

To the ears *a* is, by a pin, *b*, pivoted a bell-crank, D, whose one arm, *c*, projects through an aperture or slot of the plate C, toward the edge of the sash, its end being enlarged and roughened, as shown.

The other arm, *d*, of the bell-crank is, by a spring, *e*, held off the plate C, said spring serving to force the end of the arm *c* against the edge of the sash.

To a pin, *f*, that projects from the arm *c*, is pivoted a lever, E, which projects through an aperture or over the inner edge of the plate C, so as to be in front of the sash in the room.

When the sash is lowered to its lowest position, the end of *c* is, by the spring, forced into a recess of the sash, as shown by black lines in fig. 1.

The lever, which has a shoulder, *g*, is in this position locked over a lug, *h*, that projects from the plate C.

The sash is now locked, and cannot be raised unless the lever is first lifted off the lug *h*, and then pushed into the frame, to draw the arm *c* off the sash, as shown by red lines in fig. 1.

The sash, when raised, is again, in any position, locked by the arm *c*, which is held against it, and which is cam-shaped, in such manner, that the more weight is applied to lower the sash, the firmer will it hold the same.

When the sash is raised, the arm *c* simply catches against the plain edge of the same, and is not pushed in far enough as to carry the shoulder *g* of the lever over the lug *h*. To lower the sash, it will, therefore, only be necessary to push the lever toward the frame.

This attachment is very simple and effective, as it holds the sash in any position, with as much certainty as a cord and weight, while it also forms an automatic sash-lock, to prevent the opening of the window from the outside.

We are aware that a vibrating spring-lever, with a plain surface on its weight-end, has been used heretofore, and that serrations have been employed by others to produce friction; but

What we claim as our invention, and desire to secure by Letters Patent, is—

The combination of the serrated vibrating lever D, with the pusher E and plate C, respectively provided with the projection *g* and lug *h*, as and for the purpose specified.

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