

N. Seubert

Alarm Lock.

N^o 90,692.

Patented Jan. 1, 1869.

Fig. 1.

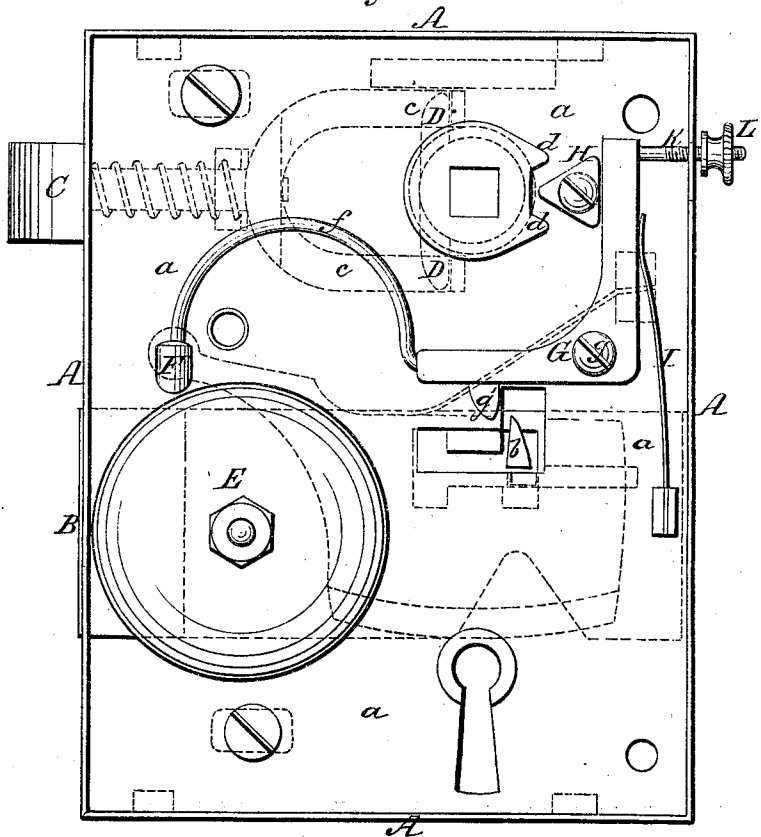
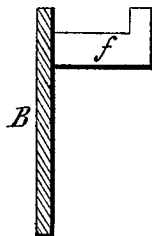


Fig. 2.



Witnesses.

Jamb. J. Mann.
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Inventor.

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Attys.

United States Patent Office.

NICHOLAS SEUBERT, OF SYRACUSE, NEW YORK.

Letters Patent No. 90,692, dated June 1, 1869.

IMPROVED ALARM-LOCK

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

To all whom it may concern:

Be it known that I, NICHOLAS SEUBERT, of Syracuse, in the county of Onondaga, and in the State of New York, have invented certain new and useful Improvements in Alarm-Locks; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, making a part of this specification, in which—

Figure 1 represents a front elevation of a lock, with my apparatus attached, and

Figure 2 is a cross-section of the bolt, showing the projecting arm, for operating the alarm.

Letters of like name and kind refer to like parts in each of the figures.

My invention relates to a class of locks having secured thereto suitable mechanism, by means of which a bell is caused to sound whenever the bolt of said lock is moved; and

It consists in the peculiar construction and arrangement of said mechanism, and its application to both bolt and latch.

In the annexed drawing—

A represents the case of a lock of ordinary construction, containing a bolt, B, operated by means of a key, and a latch, C, operated by means of a tumbler-fork, C C, and a tumbler, D, in the usual manner.

Secured upon a stud, attached to the front plate *a* of said lock, is a bell, E, upon which a hammer, F, is caused to strike, said hammer being attached to one end of a semicircular spring, *f*, the opposite end of which is secured within one end of an L-shaped arm, G, pivoted, at *g*, to said front plate.

Pivoted to said plate, near the upper end of the vertical portion of the arm G, and between the latter and the tumbler D, is a triangular cam, H, against which said arm is caused to press by means of a spring, I, as seen in the drawing.

The hub of the tumbler D extends through the plate *a*, and is provided with two V-shaped projections, or cams *d d*, which, when said hub is caused to revolve, strike against the projecting angle of the cam H, and turn the same sufficiently to allow said projections to pass, when said cam is released and returned to its former position.

It will be readily seen that the motion of the cam H will press back the vertical portion of the arm G, and raise the hammer, which, when said cam is released, is forced downwards by means of the spring I, and caused to strike upon the bell E, giving an alarm, and that a like result is produced when the tumbler

D is released and returns to its usual position, so that each time the latch C is withdrawn and released, the alarm is caused to sound twice.

In order that an alarm may be sounded when the bolt B is operated, an arm, *b*, is secured thereto, and projects horizontally through a suitable opening in the plate *a*, and terminates in a A-shaped projection, or cam, which extends upwards, and strikes against a similar projection, *g'*, secured to and extending downward from the horizontal portion of the arm G, whenever said bolt is moved in or out, and as the cam *b* has only a horizontal, and the cam *g'*, a vertical motion, it will be readily seen that the latter will be raised and released, and an alarm sounded each time said bolt is moved.

Provision is made for suspending the action of the alarm, when desired, consisting of a bolt, K, secured to and projecting horizontally from the upper end of the arm G, through an opening in the side plate *a*, where it is provided with a thumb-nut, L, by means of which said bolt can be withdrawn, and the arm drawn backward until beyond reach of the cam H.

This apparatus possesses many advantages over any in use, intended for a like purpose, it being more simple in construction, less liable to get out of order, cheaper, and more effective, as it performs a like office for both bolt and latch.

Having thus fully set forth the nature and merits of my invention,

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

The triangular cam H, in combination with the cams *d d*, or their equivalent, and the arm G, substantially as and for the purpose shown.

Also, the pivoted angular arm G, operated upon by both knob and bolt, through the cams *b* and *g*, or their equivalents, substantially as and for the purpose herein described.

Also, the within-described alarm, consisting of the arm G, cams *b*, *d d*, *g*, and H, hammer F, and bell E, when applied to a lock, substantially as and for the purpose set forth.

In testimony that I claim the foregoing, I have hereunto set my hand and seal, this 9th day of April, 1869.

NICHOLAS SEUBERT. [L. s.]

Witnesses:

WILLIAM GILBERT,
JOSEPH H. SMITH.