

R. LEE.
Burglar Alarm.

No. 112,359.
Fig. 1.

Patented March 7, 1871.

Fig. 2.

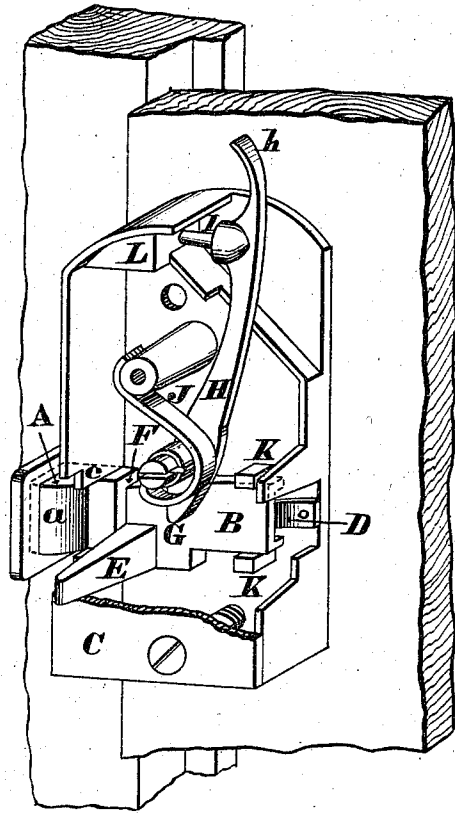
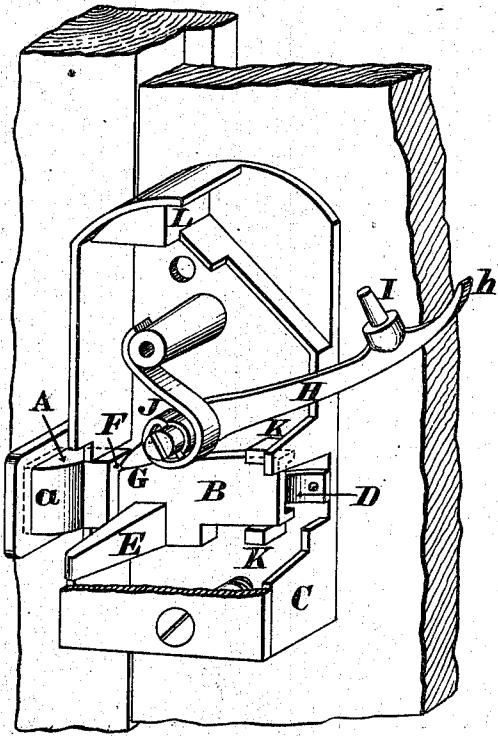
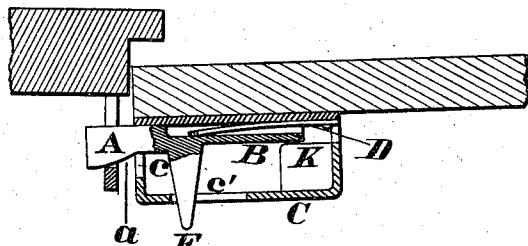
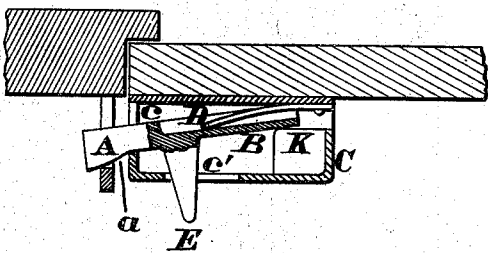


Fig. 3.

Fig. 4.



Attest.

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ROBERT LEE, OF CINCINNATI, OHIO.

Letters Patent No. 112,359, dated March 7, 1871.

IMPROVEMENT IN BURGLAR-ALARMS.

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

I, ROBERT LEE, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Burglar-alarm Bolt, of which the following is a specification.

Nature and Object of the Invention.

My invention relates to a bolt or knob-latch adapted to operate as an ordinary fastening, and in connection with a spring-hammer or percussor, as an alarm.

The bolt is so arranged as to operate independently of the alarm-hammer when desired. It forms the trigger or detent of the hammer, and remains protruded after the same is released.

The hammer is so constructed and arranged that the act of cocking it will serve to throw and lock the bolt.

Figure 1 is a perspective view, representing a door-bolt provided with my alarm, the bolt being locked and the alarm set.

Figure 2 is a similar view with the alarm-spring.

Figures 3 and 4 are longitudinal sections of the bolt in positions corresponding to figs. 1 and 2, respectively.

The bolt A narrows, by a beveled surface, *a*, to its shank, B, so as, when protruded from the case C, to be capable of a slight lateral play in the slot *c*, whose side nearest the room it is caused to hug or press by a spring, D, secured to the back plate of the case.

Projecting from bolt A is a customary handle, E, which traverses a slot, *c'*, in the case.

A shoulder, F, on that side of the bolt A most remote from the spring D, receives the sear or heel G of a hammer or percussor, H, having a nipple, I, for a percussion-cap, a spiral spring, J, for springing the hammer when liberated, as hereafter explained, and a lip or handle, *h*, for cocking it.

The bolt is guided to its proper path by suitable stumps K.

A suitable stump, L, receives the impact of the hammer.

Operation.

The hammer being uncocked, as in fig. 2, the bolt can be protruded or retracted in the ordinary manner without sounding the alarm.

When the inmate of the room desires to set the alarm, he draws the hammer into cock, as in fig. 1.

This action brings its heel endwise against the shoulder F on the bolt, and effectually locks the latter.

The cocking of the hammer may be then done either with the protruded or the retracted bolt, because the act of cocking operates to protrude the bolt as effectively as though protruded by the handle itself.

The hammer being set or cocked, the slightest pressure inward against the door causes sufficient lateral deflection of the bolt to liberate from its shoulder the heel of the hammer, so as to permit the coiled spring of the latter to come into play, and to project the hammer violently against the stump L, and thus to discharge the cap.

Should it be desired to unbolt the door without sounding the alarm, the occupant of the room simply draws back the hammer with one hand and pulls the door toward him with the other hand. This latter action operates to disengage the heel of the hammer, and allows the latter to be let gently down upon the stump in the manner familiar to those who handle fire-arms.

The act of cocking throws and locks the bolt.

Although described for doors, the device is equally applicable to windows when applied on the parting-rail of the sash.

I do not claim a laterally-yielding bolt or latch as a trigger for an alarm, nor the adaptation of such bolt to form a permanent fastening, nor the combination (broadly considered) of a hammer with such laterally-yielding bolt or latch, as means for sounding an alarm.

Claim.

I claim as new and of my invention—

In combination with the laterally-yielding bolt A, forming a fastening and detent or trigger, as described, the hammer or percussor H, with its sear or heel G and spring J, for throwing and locking the said bolt and sounding the alarm, constructed and operating substantially as shown and set forth.

In testimony of which invention I hereunto set my hand.

ROBERT LEE.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.