W. W. CLIMENSON.

ALARMS FOR DOORS.

No. 192,861. Patented July 10, 1877.

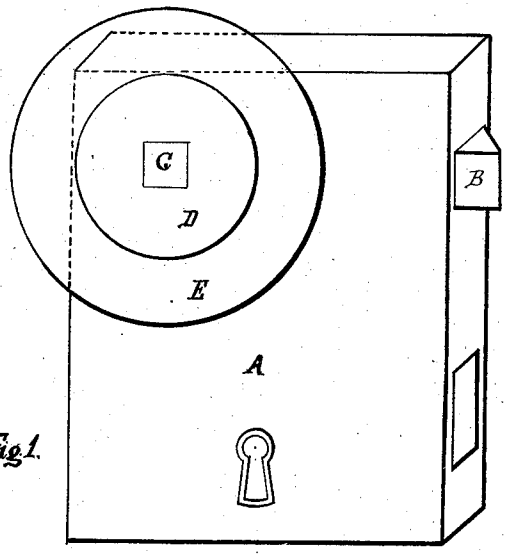
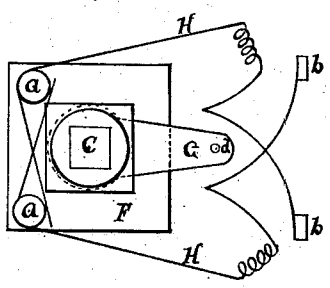


Fig. 1.

Fig. 2



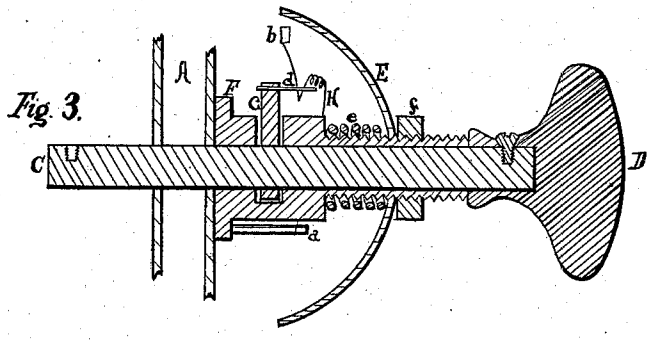


Fig. 3.

Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM W. CLIMENSON, OF ST. CLAIR, PENNSYLVANIA.

IMPROVEMENT IN ALARMS FOR DOORS.

Specification forming part of Letters Patent No. **192,861**, dated July 10, 1877; application filed January 20, 1877.

To all whom it may concern:

Be it known that I, WILLIAM W. CLIMENSON, of St. Clair, in the county of Schuylkill and State of Pennsylvania, have invented a new and useful Improvement in Door-Lock Alarms, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

The object of my invention is to furnish an alarm apparatus for door-locks by means of a gong-bell worked by a pair of springs and hammers, a lug and pin, and the spindle of the door-knob, as shown in the accompanying drawings.

In Figure 1 the alarm is shown attached to an ordinary door-lock. Fig. 2 shows the springs, hammers, and method of working the alarm. Fig. 3 is a sectional view of the lock, alarm, and knob.

On the knob-spindle C is placed a metal standard, F, to which the parts of the alarm are attached. The spindle C runs through the lock A, the standard F, and the lug G. Attached to the lug G is a pin, *d*, which is intended to operate the springs H H. E is a gong-bell, which is slipped on the top of the standard F, and is secured by the nut F. *e* is a spiral spring, placed between the gong-bell and a shoulder on the standard *f*. *a* is one of two posts, as shown in Fig. 2 at *a a*, to which the ends of the springs are attached, the other ends having small metal hammers or strikers *b b* attached.

The alarm is operated solely by the turning of the knob D. When the knob D is turned the lug G turns part-way round, and the pin *d* engages the spring H and draws the hammer away from the gong; but just before the turning of the knob D draws the latch B in the lock A back far enough for the door to be opened, the pin *d* is turned past the spring H, which, rebounding, causes the hammer *b* to strike the gong E, sounding an alarm. When the latch B is released the lug G and pin *d* come back to their original position. By turning the knob of the lock either way one of the springs H H is sure to operate and sound the alarm.

If at any time it is desired to throw off or disconnect the alarm it may be done by simply screwing back the nut *f* toward the knob D. The spiral spring *e* will then push the gong out as far as the nut *f* has been unscrewed and out of reach of the hammers *b b*.

The alarm may be attached to any lock in use by simply fastening the standard F to the lock, in case it is a rim-lock, or to the door for a mortise-lock.

I claim as my invention—

The combination, in a door-lock alarm, substantially as described, of a standard, F, lug G with pin *d* attached, springs H H, and hammers *b b* attached, gong E, spiral spring *e*, and nut *f*, and the spring-posts *a a*, for the purpose hereinbefore set forth.

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Witnesses:

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