

(No Model.)

W. E. McINTOSH.

BURGLAR ALARM.

No. 382,484.

Patented May 8, 1888.

Fig. 1.

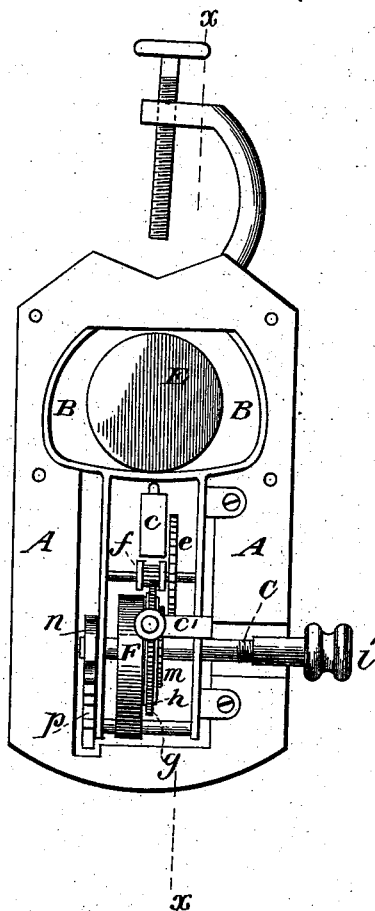
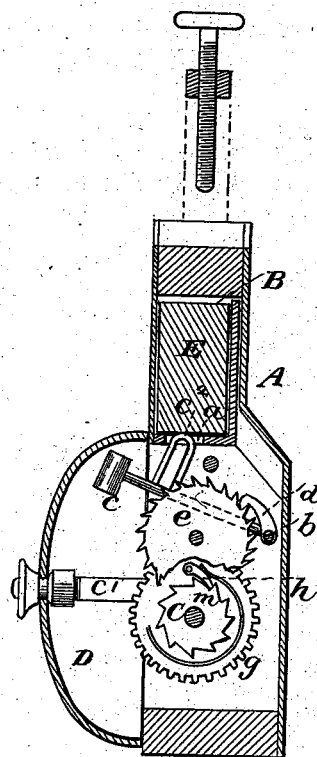


Fig. 2.



Witnesses.  
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# UNITED STATES PATENT OFFICE.

WILLIAM E. MCINTOSH, OF KEENE, NEW HAMPSHIRE.

## BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 382,484, dated May 8, 1888.

Application filed March 23, 1888. Serial No. 268,210. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM E. MCINTOSH, a citizen of the United States, residing at Keene, in the county of Cheshire and State of New Hampshire, have invented certain new and useful Improvements in Burglar-Alarms; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to burglar alarms; and it consists in certain improvements on a certain device for an alarm attachment, for which, on the 27th of January, 1888, I filed an application, No. 262,098, for Letters Patent.

In the accompanying drawings, Figure 1 is a front view of an alarm device provided with my improvements. Fig. 2 is a vertical section taken on line *x x* of Fig. 1.

In my improved construction the casing or body A has chamber B in its upper part, said chamber having a concave floor, the lowest part of which is on a central line running from front to rear. A slot, *a*, is made in the central part of said floor, for the purpose hereinafter stated. A roller, E, is placed in chamber B, said roller being loose and resting on the floor at the center and over slot *a*, when the device is set and held in a perpendicular position.

Below the chamber B is placed the alarm mechanism. A shaft, *b*, which is mounted in suitable bearings, carries a striking-hammer, *c*, which extends forward, so that it is in position to strike the bell D, which is held by an arm, *c'*, in front of the mechanism. The rod of said hammer is provided with a projection or short vertical arm, *c''*, which is in position under the slot *a* to enter the said slot when the hammer is raised in making its upward stroke. On the said shaft *b* is also placed a pallet, *d*, which engages with an escape-wheel, *e*, the latter being on a shaft which carries a pinion or cage wheel, *f*.

C indicates the winding-shaft, which is provided with a handle-knob, *i*, for winding up the device. On said shaft C is placed the mainspring F, which actuates the alarm mechanism, one end of said spring being secured to a cross bar in the rear.

A gear-wheel, *g*, is placed loose on the winding-shaft C, so that when shaft C is turned in winding up the device the wheel *g* is not rotated; but when the said shaft is actuated by the spring F a spring-pawl, *h*, attached to wheel *g*, engages with the ratchet-wheel *m*, fixed on the winding-shaft, and wheel *g* is thus caused to rotate, and, engaging with wheel *f*, imparts motion to the pallet and hammer, the latter repeatedly striking the bell and sounding an alarm.

On the inner end of the winding-shaft is a wheel, *n*, provided with a small arm which engages with the teeth of a wheel, *p*, below, these parts forming a governing device which limits the rotation of said shaft.

By my improvement, as above described, the device is rendered more simple in construction, more durable, and cheaper in manufacture. It also has greater power and in operation produces a louder sound.

I claim—

In an alarm device, a chamber provided with a curved floor which is slotted at the center, and a loose roller in said chamber, in combination with an alarm mechanism having a bell and provided with a striking-hammer, which is provided with an arm or projection in position to enter the slot in the floor when the hammer makes its upward movement, substantially as and for the purposes described.

In testimony whereof I have affixed my signature in presence of two witnesses.

WILLIAM E. MCINTOSH.

Witnesses:

FRANK H. WYMAN,  
JEROME E. WRIGHT.