

J. ANDREWS.
Burglar-Alarm.

No. 163,960.

Patented June 1, 1875.

FIG. I.

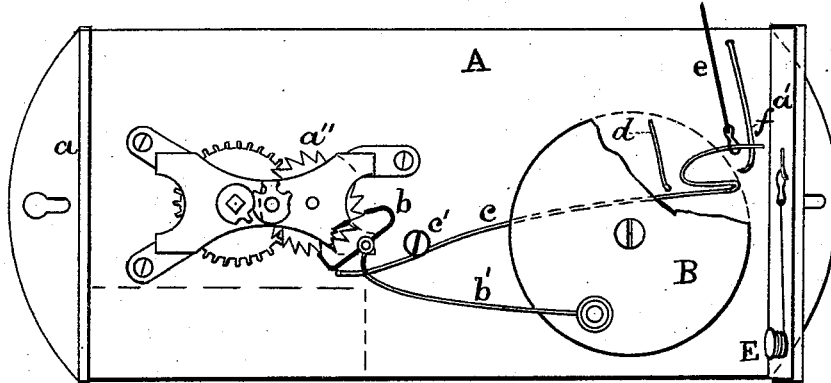


FIG. II.

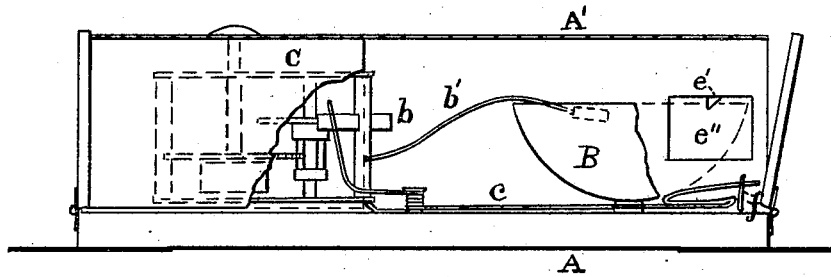
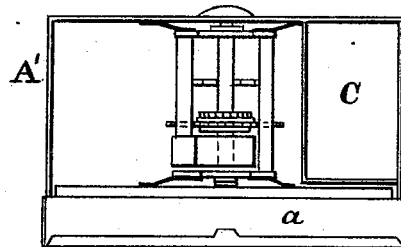


FIG. III.



WITNESSES :

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN BURGLAR-ALARMS.

Specification forming part of Letters Patent No. **163,960**, dated June 1, 1875; application filed April 2, 1875.

To all whom it may concern:

Be it known that I, JAMES ANDREWS, of the city of Detroit, in the county of Wayne and State of Michigan, have invented certain Improvements in Portable Burglar-Alarms, of which the following is a specification:

My invention relates to certain improvements in means for setting the alarm, for springing, and preventing the springing of the same, and disposing of the cords and other appliances accompanying the device.

In the accompanying drawing, Figure 1 is a view showing the interior of the machine. Fig. 2 is another view of the interior thereof; and Fig. 3 an end view of the alarm.

A A' represent the case of the machine, the part A' being, in Fig. 1, removed. The case may be made of metal or wood, and is provided with two end doors, marked, respectively, *a* and *a'*.

The alarm-sounding mechanism is of ordinary construction, except in the particulars hereinafter specified.

In the drawing, the alarm-striking devices consist of an ordinary anchor escapement, the scape-wheel *a''* operating upon the pallet *b*, to the barrel of which the gong-striker rod *b'* is attached. The gong, represented by B, is secured to the case, as shown.

To set the alarm, the long arm of the lever *c*, which is pivoted at *c'*, is pushed back and over the catch *d*, the short arm of the lever pressing against the pallet *b*, and forcing it to engage with the teeth of scape-wheel *a''*. The motive mechanism is wound up by means of an ordinary clock-key. A loop, attached to the springing-cord, is placed over the end of the lever *c*, which is bent, as shown, the cord being carried to any desired point, and there secured. A barrier or obstruction is thus made which will be struck by the burglar or thief on seeking to enter the place guarded, and the alarm sounded. The cord, represented by *e*, leads through the opening *e'* in the door *e''*, hinged to the cover A'. The said door, when opened, allows room for the operator in setting the device. A locking-wire, *f*, is pivoted to the case, as shown, which wire is adapted to be pushed back against the bent

end of the lever *c*, and keep it from being sprung before it is desired to spring the alarm. This wire must be drawn back when the alarm is to be set. The wire *f* also prevents the cord from slipping from the lever *c* when the two parts are brought together.

It is seen that when the lever *c* is freed, the pallet *b* receives the immediate impulse of the scape-wheel, and that the gong is rapidly struck, giving the alarm.

It is seen that the gong-striker is free to strike the alarm, and is not retarded by any other part of the mechanism, which would add weight to the striker. The alarm is, therefore, the more efficient.

A pocket, C, is placed in one end of the case, and is designed to hold thread, hooks, eyes, and other appliances required in setting the alarm, when not in use. A spool, E, on the door *a'*, is intended to hold the thread in a manner convenient for use, and free from entanglement.

This alarm is applicable to any use in which such detectors are employed. In traveling, it can be placed in valises, under the pillow of the sleeping-car, in the clothes of the traveler, or in any other place or position required to be guarded, where an attempt at robbery would be frustrated by its presence and action.

I claim as my invention—

1. The lever *c*, having the bent cord end adapted to be attached directly to the thread-loop, and to allow the entrance of the pivoted wire *f* to lock said lever, in combination with the catch *d*, pallet *b*, gong-striker *b'*, gong B, and scape-wheel *a''*, all substantially as herein specified.

2. The combination of the pivoted locking-wire *f*, with the bent stop-lever *c*, the parts being constructed and adapted for operation, as shown and described.

In testimony whereof I have subscribed my name hereto in presence of two witnesses.

JAMES ANDREWS.

Witnesses:

CHAS. KÜDNER,
M. E. CROFOOT.