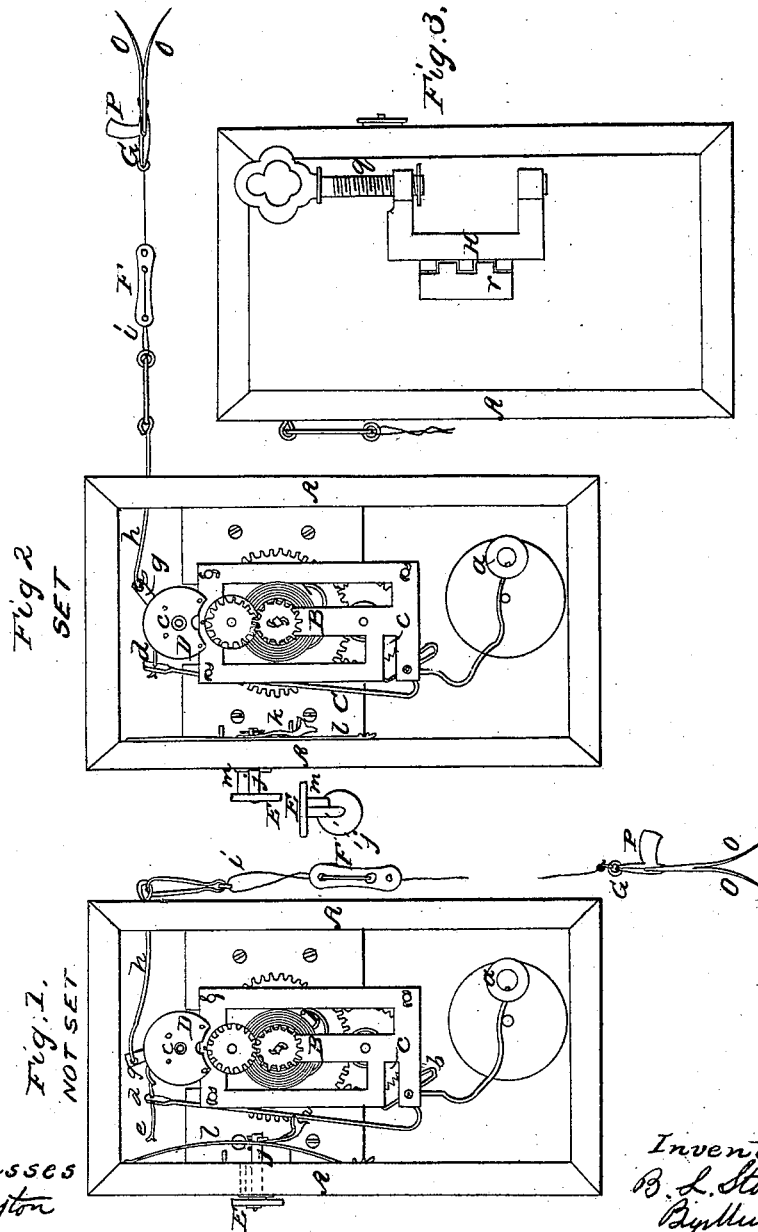


B. L. STONE.
Burglar Alarm.

No. 51,489.

Patented Dec. 12, 1865.



Witnesses
J. M. Compton
F. H. Fitch

Inventor
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By *[Signature]*
Attys.

UNITED STATES PATENT OFFICE.

B. L. STONE, OF NEW YORK, N. Y.

BURGLAR-ALARM.

Specification forming part of Letters Patent No. 51,489, dated December 12, 1865.

To all whom it may concern:

Be it known that I, B. L. STONE, of the city, county, and State of New York, have invented a new and Improved Travelers' Burglar-Alarm; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents the burglar-alarm before it has been set. Fig. 2 is a view of the same when set. Fig. 3 is a view of the means I adopt for fastening the same to any article in the sleeper's room. Fig. 4 is a detached view of a portion of the locking arrangement.

Similar letters of reference indicate corresponding parts.

My invention consists in arranging a spring or flexible piece of wire in such relation to the escapement of the clock-work in a burglar-alarm that when the cord which connects the said flexible rod to the door or window is slackened or set free the escapement will have free play to operate upon the bell, but when said end is held tight the whole apparatus will remain in a perfectly quiescent state.

It also consists in a locking arrangement for holding the said flexible rod so as to prevent the escapement from operating until the alarm has been adjusted or set for use, when the locking-arm can be withdrawn, leaving the said flexible rod free to act so soon as the cord is slackened.

It also consists in a peculiar manner of connecting the cord with the said flexible rod.

It also consists in a new device I employ for attaching the cord to the door or window, the said device consisting of two flat springs diverging from each other at the ends while the other ends are connected together by a plate having a suitable nose or projection for the door or window to strike against to throw it out of place.

It also consists in combining with the device an ordinary or any suitable clasp for fastening it to a bed-post or in any desirable place.

To enable others to understand my invention, I will proceed to describe it.

A represents the case or box for containing the apparatus.

B is the clock-work, consisting of such parts only as are necessary to operate a bell-ham-

mer, *a*, for the purpose of striking the alarm-bell.

C is the flexible rod or spring, which is attached to the pallet *b* of the escapement *c* in such manner that when the said rod is drawn toward the clock-work the pallet will be caused to hold the escapement-wheel, and therefore prevent any action thereof; but when it is allowed to spring backward or in an opposite direction the pallet will release the escapement, and thus cause the bell-hammer *a*, whose crank or arm is attached to the shaft of the pallet to operate freely and cause the said hammer to play upon the bell. The upper end of this flexible rod has an eye, *d*, in it, through which is run a wire, *e*, which is attached to a shaft, *f*, having its bearings in plates D suitably arranged above the clock-work. This shaft carries an arm, *g*, to which is attached another wire, *h*, extending to the outside of the case, where the string *i* is attached to it. This intermediate connecting apparatus I find operates better than were the wire *h* connected directly to the flexible rod C; though I propose sometimes adopting this latter course, when simplicity of construction is desired.

E *j k l m* is the apparatus for locking the rod C after the clock-work has been wound up, consisting of a thumb-screw, E, on the outside of the case, to which is attached a rod, *j*, having fastened to it an arm, *k*, with a forked end which presses against the flexible rod C and presses it in toward the clock-work, and thus prevents the pallet allowing the escapement-wheel to operate, as shown clearly in Fig. 1.

l is a spring, arranged so as to throw the arm *k* forward against the flexible rod C, so soon as the rod *j* is allowed to fly inward, by bringing its shoulder over a hole into which it sinks, as will be seen by reference to Figs. 1 and 2, this peculiar arrangement being shown in detail in Fig. 4. This locking arrangement is used after the clock-work has been wound up and the device is being set for use, as shown in Fig. 1. In Fig. 2, where the alarm is shown as set, the locking arrangement is thrown out of operation, as will be seen by reference to that figure.

i is the cord, having on it a device, F, for tightening or loosening it as the distance the alarm is placed from the door or window may require.

G is the device to insert in the crack of the

door or window. To insert it, its two springs *o o* are pressed together, and in this way forced into the cracks of the door or window, where it will remain without liability of displacement until the door or window is opened, which will strike against a nose, *p*, and throw the said device out of the crack, and thus release the flexible rod *C*, which puts the whole alarm in operation.

H is a clamp, which is hinged to the back or side of the case, having a screw, *g*, for tightening its hold upon any article in the usual manner. The hinge *r* enables the clamp to fall back against the case *A*, and thus be out of the way.

This alarm will be found perfect in its operation, easily applied, and of a very convenient size for carrying—in fact so small that it may be carried in the pocket without much, if any, embarrassment.

I do not confine myself to the precise arrangement as herein specified.

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

1. Constructing the clamp *H* with a hinge-joint to enable it to be folded up close against the back or side of the case, substantially as specified.

2. The device *E j k l m*, or its equivalent, for holding the rod from operating after the clock-work has been wound up and while the alarm is being set.

3. The shaft *f*, connected to the rods *e* and *h*, arranged substantially in the manner and for the purposes herein mentioned.

The above specification of my invention signed by me this 10th day of April, 1865.

B. L. STONE.

Witnesses:

M. M. LIVINGSTON,
C. L. TOPLIFF.