

(No Model.)

W. D. MATNEY.
BURGLAR ALARM.

No. 257,356.

Patented May 2, 1882.

Fig. 1.

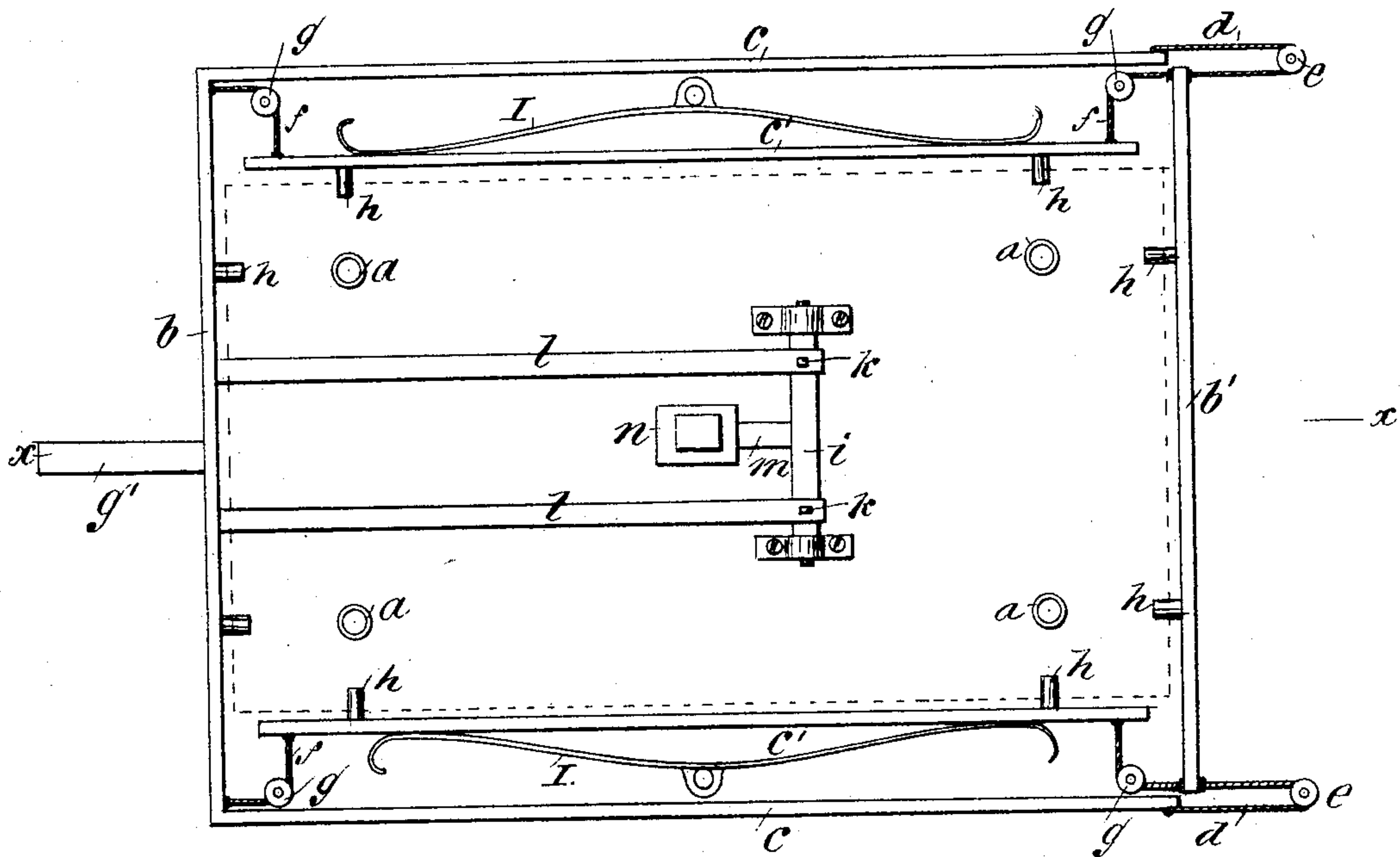
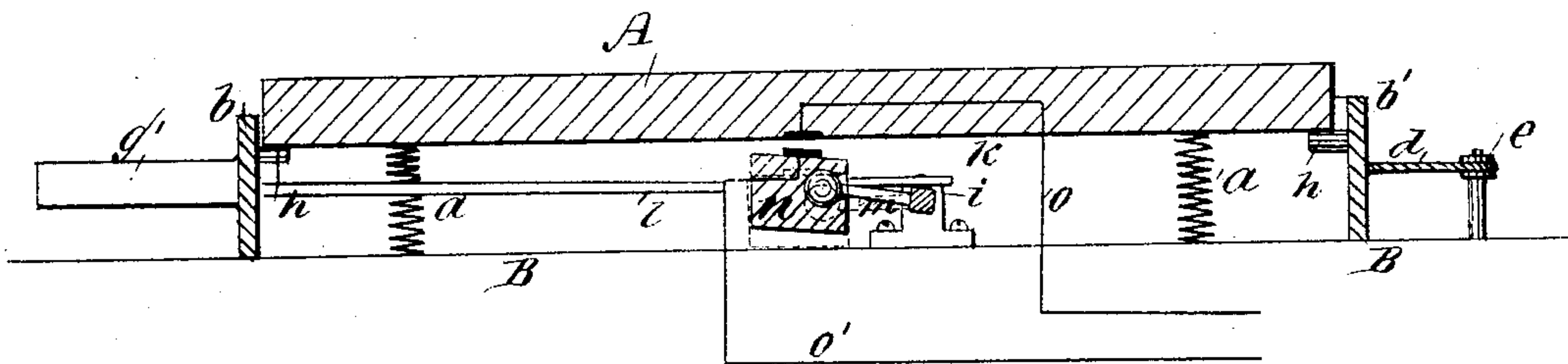


Fig. 2.



WITNESSES:

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WILLIAM D. MATNEY, OF HARVEL, ILLINOIS.

BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 257,356, dated May 2, 1882.

Application filed November 5, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM D. MATNEY, of Harvel, in the county of Montgomery and State of Illinois, have invented a new and useful Improvement in Burglar-Alarms, of which the following is a full, clear, and exact description.

My invention relates to devices for protecting safes and vaults by giving an alarm when they are approached; and it consists in a spring-platform acting, when stepped upon, to operate an electric alarm, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a plan view of the apparatus, the platform being removed to show the mechanism beneath; and Fig. 2 is a vertical longitudinal section.

The apparatus will be placed at the front of the safe or vault, the platform proper being on a level with and forming a part of the floor, so that in coming close to the safe a person will need to step on the platform.

A is the platform. *a a* are spiral springs sustained on a suitable support, B, beneath the platform, and on which the platform rests when set for use. *b b'* are end bars, and *c c* are side bars, placed around the platform and setting loosely on the support B, and *c' c'* are side bars placed between the platform and the side bars *c*. The outer side bars, *c*, and one end bar, *b*, are rigidly connected at their ends, while the other end bar, *b'*, is connected at its ends to bars *c* by cords *d* passing around friction-rollers *e*. Both end bars, *b b'*, are connected to the inner side bars, *c'*, by cords *f* passing over friction-rollers *g*. By these connections the bars *b'* and *c' c'* are moved outward or away from the platform when the bar *b* is moved. This outward movement is opposed, and the movable bars are afterward returned to their normal position by means of springs arranged between bars *cc'*, as shown in Fig. 1. A lever, *g'*, is connected to the bar *b* for its movement by hand.

On the end-bars, *b b'*, and side bars, *c' c'*, there are studs or projections *h*, which extend beneath the platform and support it when the bars are in their inward position.

Beneath the platform, in suitable bearings, is a rock-shaft, *i*, having arms *kk*, from which links *ll* pass to and are connected with the end bar *b* for movement therewith. There is also an arm, *m*, projecting from the rock-shaft, on the end of which a block, *n*, is attached by a ball-and-socket joint. One wire, *o*, of an electric circuit, which includes an alarm placed at any suitable place, connects with a contact-plate beneath the platform, and the other wire, *o'*, connects with a similar plate on the upper side of the block *n*, so that when the block and platform are in contact the circuit shall be closed.

The operation is as follows: During the day, or when the safe is in ordinary use, the movable side and end bars will be moved inward, and the platform will thus be supported. At other times the bars will be moved out, so that the platform rests on the springs *a*, and the rock-shaft *i* being turned by movement of bar *b*, the arm *m*, carrying the block *n*, is moved down into a horizontal position and the block held a short distance below the platform. In this position the platform is free to be moved down by weight being put on it, and the downward movement will close the circuit as soon as the block *n* is touched by the platform. This construction provides perfect security.

I do not limit myself to the special arrangement of devices for closing the circuit, as they may be varied, and the alarm may be given on open or closed circuit.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of the spring-supported platform, wires of an electric circuit, contact-points in an alarm-circuit that are brought into contact by the downward movement of the platform, and movable supports arranged to sustain the platform rigidly when required, substantially as shown and described.

2. The combination of spring-platform A,

movable block *n*, and the circuit-wires *o o'*, connecting with the blocks and platform, respectively, substantially as shown and described.

- 5 3. The movable bars *b b'*, *c c*, and *c' c'*, connected together and provided with studs *h*, in combination with the spring-platform A, substantially as and for the purposes set forth.

4. The movable bar *b*, links *l*, rock-shaft *i*, arms *k m*, and jointed block *n*, substantially as shown and described, combined with the 10 spring-platform A, for operation as set forth.
WILLIAM D. MATNEY.

Witnesses:

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