(No Model.)

O. A. HELMAN.

ELECTRIC BURGLAR ALARM.

No. 280,472. Patented July 3, 1883.

Fig. 1.

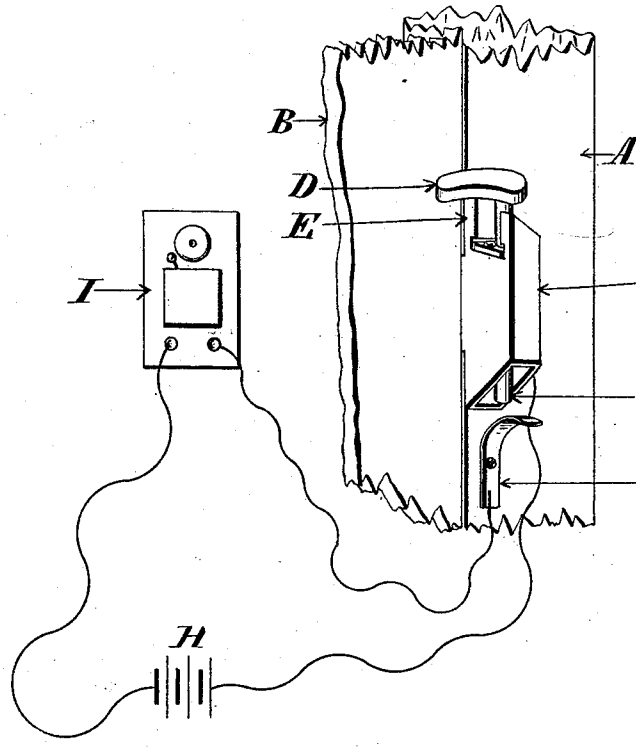
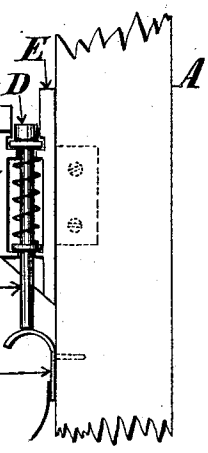


Fig. 2.



Attest
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UNITED STATES PATENT OFFICE.

ORLANDO A. HELMAN, OF CINCINNATI, OHIO.

ELECTRIC BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 280,472, dated July 3, 1883.

Application filed April 7, 1883. (No model.)

To all whom it may concern:

Be it known that I, ORLANDO A. HELMAN, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Electric Burglar-Alarms, of which the following is a specification.

In the accompanying drawings, Figure 1 is a diagrammatic representation of a burglar-alarm embodying my invention. Fig. 2 is a side elevation of the trigger device, part of the housing-wall being removed and the trigger discharged.

A may represent the jamb, and B the adjacent part, of a door.

C is a housing for a spring-bolt, G, such as used in percussion burglar-alarms. From the upper extremity of this bolt there projects an arm, D, by which, after closure of the door, the bolt can be forcibly elevated and partially rotated, so as to rest upon ledge E of the housing.

F is a contact-piece, which, in the discharged condition of the bolt G, is touched by the latter, so as to close the circuit of a voltaic battery, H, and of a connected electro-magnetic alarm, I, of any customary or suitable construction.

It will be seen that, when discharged, the arm D, being confined by the walls of the housing C, operates as a bar to the door, which prevents the opening of the same until the bolt has been again retracted and turned clear out of said confining-walls.

It is also apparent that this device may be used to operate an annunciator, so as to indicate what particular door has been tampered with.

I claim as new and of my invention—

The burglar-alarm attachment for doors, consisting of spring-bolt G, having arm D, housing C, having lug E, contact-piece F, to receive the impact of the bolt when the latter is discharged, battery H, and electro-magnetic alarm I, substantially as and for the purpose set forth.

In testimony of which invention I hereunto set my hand.

ORLANDO A. HELMAN.

Attest:

GEO. H. KNIGHT,

S. S. CARPENTER.