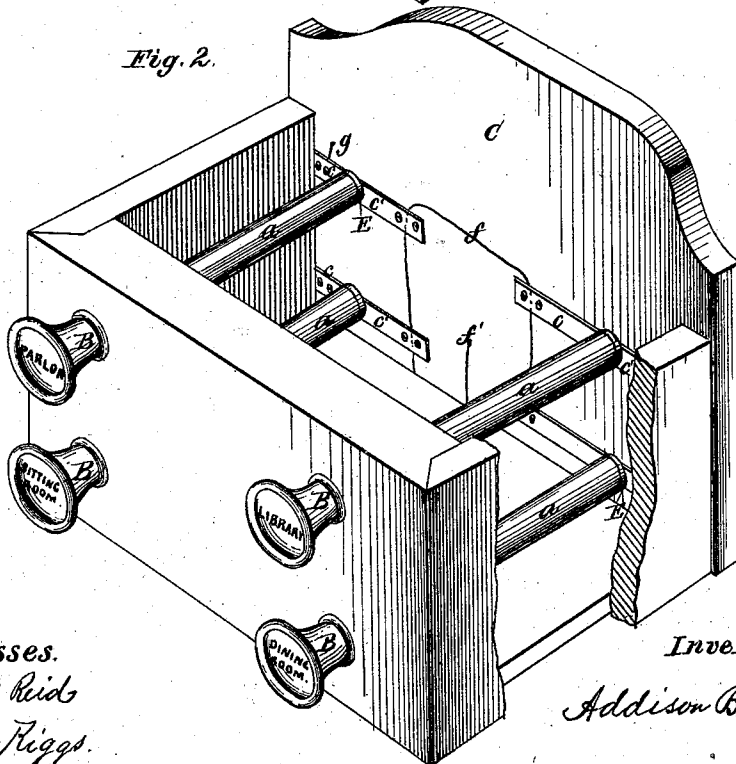
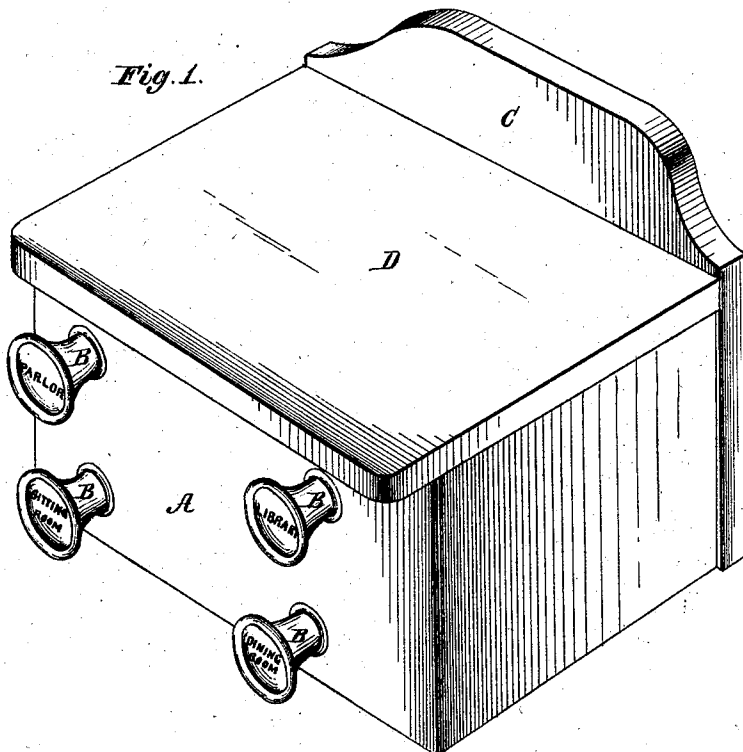


A. BRADFORD.

INDICATOR FOR ELECTRIC BURGLAR-ALARMS.

No. 189,993.

Patented April 24, 1877.



Witnesses.
Myron W. Reid
John V. Riggs.

Inventor
Addison Bracford.

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Fig. 3.

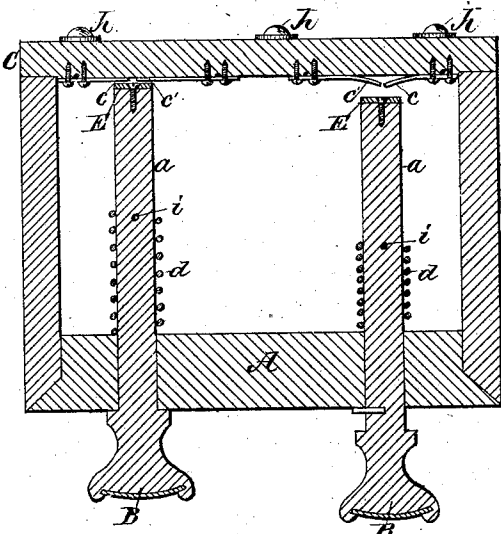


Fig. 4.

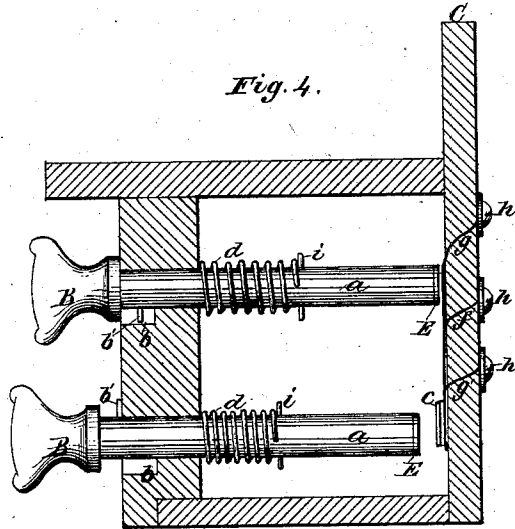


Fig. 5.

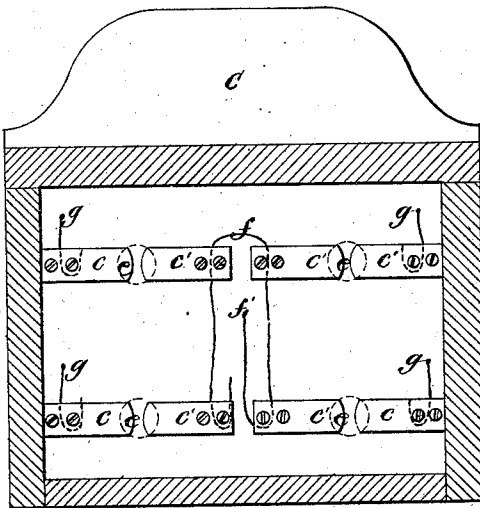
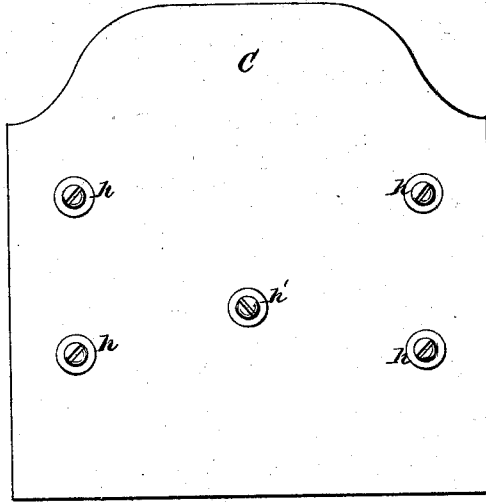


Fig. 6.



Witnesses.

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Addison Bradford.

UNITED STATES PATENT OFFICE.

ADDISON BRADFORD, OF AMSTERDAM, NEW YORK.

IMPROVEMENT IN INDICATORS FOR ELECTRIC BURGLAR-ALARMS.

Specification forming part of Letters Patent No. 189,993, dated April 24, 1877; application filed January 20, 1877.

To all whom it may concern:

Be it known that I, ADDISON BRADFORD, of Amsterdam, in the county of Montgomery and State of New York, have invented new and useful Improvements in Indicators for Electric Alarms; and do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of an indicator, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a perspective elevation of my invention. Fig. 2 is an open perspective view of the same. Figs. 3, 4, and 5 are sectional views; and Fig. 6 shows the back of the indicator.

A C D represent a box, D being a shelf for the alarm. B B B B are knobs, the front end being marked with the name or number of the rooms or place that they severally represent or indicate. Through A pass the rods *a a a*, around which are springs *d d d d*, one end coming against the inside of A. A pin, *i*, passes through rod *a* at the other extremity of spring *d*, to hold it to its proper place. Spring *d* is for the purpose of carrying rod *a* to its place when released, after having been pulled out by knob B. *b* is a groove in A for pin *b'* to pass in. Pin *b'* in rod *a* is for the purpose of holding rod *a* out when turned from groove *b*, so as to break the electric circuit, thereby leaving one part of the building unprotected, while the rest is protected. Up on the inside of C are springs *c' c' c' c' c' c'* in pairs, so fastened to C as not to come in

contact with each other. The springs *c' c' c' c'* are connected to each other by wire *f*, passing through Cat *f'* to *h'* on the back of the indicator. From springs *c c c c* pass wires *g g g g* through C to *h h h h*. These screws *h h h h* and *h'* are for the connection of the wires from the different parts of the building and battery. The rods *a a a a* have metallic ends *e e e e*, which are held by springs *d d d d* in close contact with the springs *c' c' c' c' c' c'*, to complete the circuit, which would be otherwise broken by springs *c' c'* not touching each other.

The wires running from the various connections of the doors, windows, &c., of the building and from the battery are so connected with the indicator at the screws *h h h h* and *h'* and the alarm that to complete the battery-circuit the electric current must pass through the indicator.

To find where an entrance is being made, when the alarm sounds pull out on the knobs B B B B. The one that represents or indicates the opening will stop the alarm sounding, by drawing the metallic end *e* of rod *a* from its connection with the metallic springs *c' c'*, thereby breaking the circuit that had been closed and caused the alarm to be given.

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

The combination, in an indicator for electric alarms, the box A C D, with knobs B B B B, rods *a a a a*, springs *d d d d*, pin *b'*, groove *b*, springs *c' c' c' c' c' c'*, with the necessary electric connecting-wires, substantially as and for the purpose herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 18th day of January, 1877.

ADDISON BRADFORD. [L. S.]

Witnesses:

CHARLES P. WINEGAR,
MARTIN LYNK.