

(No Model.)

C. E. EGAN.
FIRE ALARM ATTACHMENT.

No. 512,672.

Patented Jan. 9, 1894.

Fig. 1.

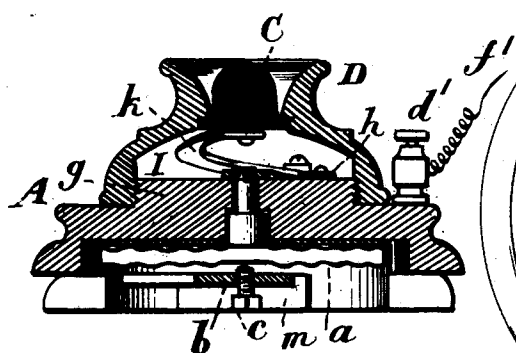


Fig. 2.

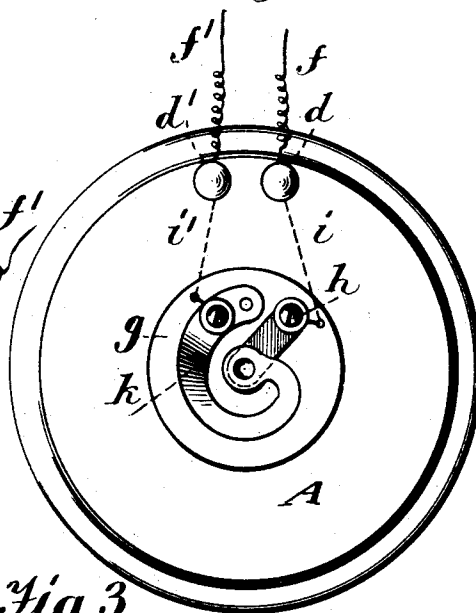
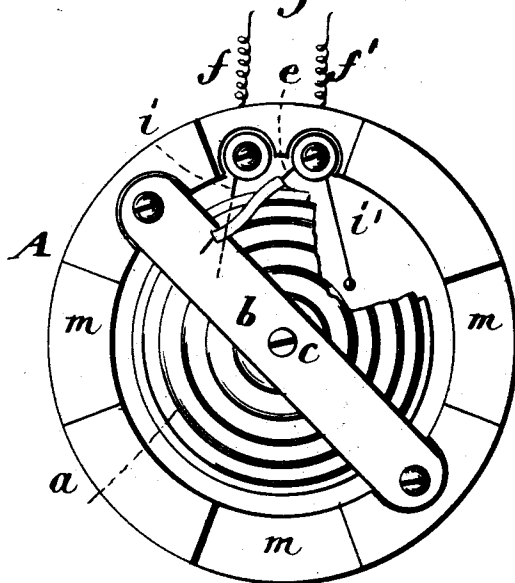


Fig. 3.



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FIRE-ALARM ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 512,672, dated January 9, 1894.

Application filed May 27, 1893. Serial No. 475,693. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. EGAN, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Fire-Alarm Attachments, of which the following is a specification, reference being had therein to the accompanying drawings.

10 The invention relates to electric alarms or annunciators for use in hotels and other buildings, and consists in an improved construction in which the alarm mechanism is automatic in operation, in case of fire, and may also be
15 used by the occupant of a room for calling purposes.

In the accompanying drawings Figure 1 represents a vertical section of a device for closing and breaking a circuit, embodying
20 my improvements. Fig. 2 is a plan view of the device, the push-button and housing in which it is mounted being removed. Fig. 3 is a bottom plan of the device.

A designates a circular block which forms
25 the base, the said block being made somewhat hollow to receive a circular, corrugated disk *a* which is secured therein. Under the disk *a* is secured a cross-bar *b*, some space being left between the disk and said bar. A
30 screw *c* is carried by the bar *b*, being passed through the bar and held in position for contact with the disk *a*, in case the latter should be expanded by heat in the event of fire. The
35 screw *c* may be adjusted on the bar, in proximity to the disk, according to the temperature required. Two binding posts *d*, *d'*, are mounted on the block A and extend down in the same, the lower extremity of said post *d* being connected by wire *e*, with the cross-bar
40 *b*. Two conducting wires *f*, *f'*, are connected with the posts *d*, *d'*, respectively and are run to and connected with an annunciator, not shown, which has connection with an electric source of supply.

45 Centrally mounted on a raised portion or

offset *g*, of the block A, is a contact piece *h*, which is connected by a wire *i*, with the binding post *d*, at the lower end of said post. An elastic arm *k* is mounted on the offset *g*, in position for contact with the piece *h*, when
50 said arm is pressed down. Connection of the arm *k* with the post *d'* is formed by a wire *i'*.

C indicates a push button which is placed on the arm *k*, and the said button and the devices mounted on the offset *g*, are inclosed by
55 a shell or removable housing D. The said housing and the offset are threaded, so that the former may be screwed on the latter, as seen in Fig. 1. A chamber or air-space I, about and under the button C, is formed by
60 the housing as shown. Lateral openings *m* are made in the block A for the admission of heated air to the disk *a*, in case of fire.

In case the occupant of a room, in which the device is set, desires to send a call to the
65 room in which the annunciator is located, he presses the push-button, thus closing the circuit by means of the arm *k* and contact piece *h*.

I claim—

The combination with a block having a
70 chamber provided with side openings formed therein, a corrugated disk in said chamber, a cross-bar with an adjustable screw, in position to bear against said disk when the latter is expanded by heat, a contact piece and an
75 elastic arm, mounted on said block, a push-button, a housing for said button, removably secured to said block, two binding posts, two conducting wires, forming connections of said posts with said elastic arm and said contact
80 piece, and two wires connecting said posts severally with said cross-bar and said corrugated disk, substantially as set forth and described.

In testimony whereof I have affixed my signature in presence of two witnesses.

CHARLES E. EGAN.

Witnesses:

GRAHAM P. JONES,
GEORGE P. JONES.