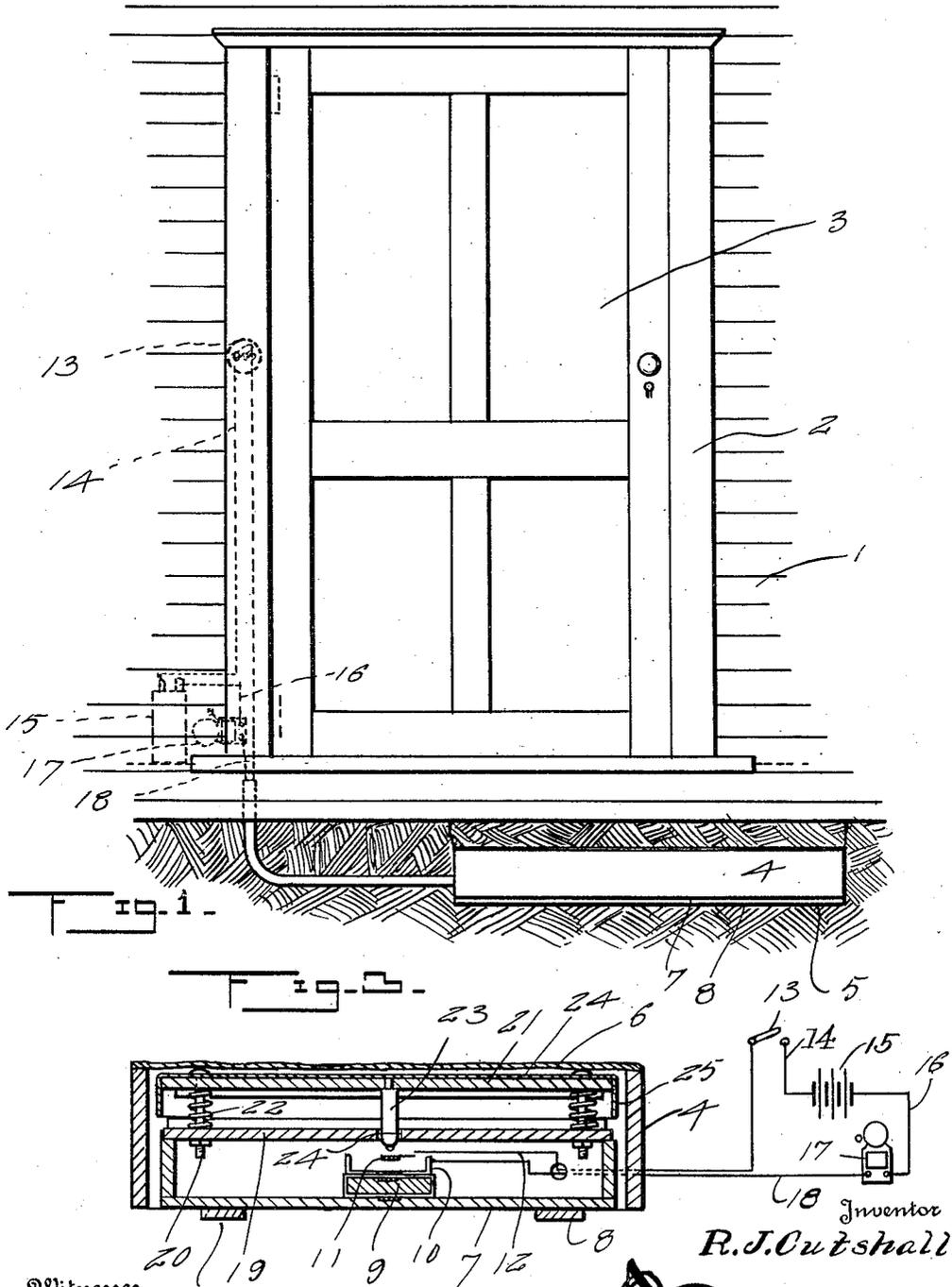


R. J. CUTSHALL.
BURGLAR ALARM.
APPLICATION FILED DEC. 29, 1917.

1,411,167.

Patented Mar. 28, 1922.

2 SHEETS—SHEET 1.



Witnesses
Chas. A. ...

W. A. Davidson

Inventor
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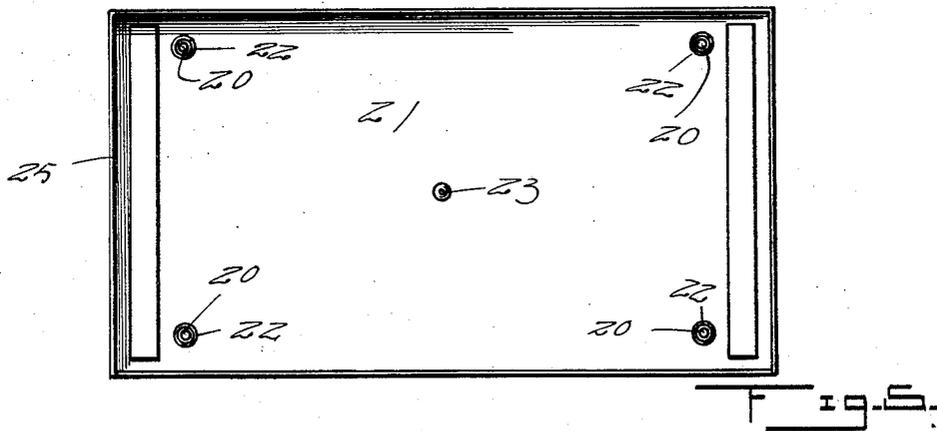
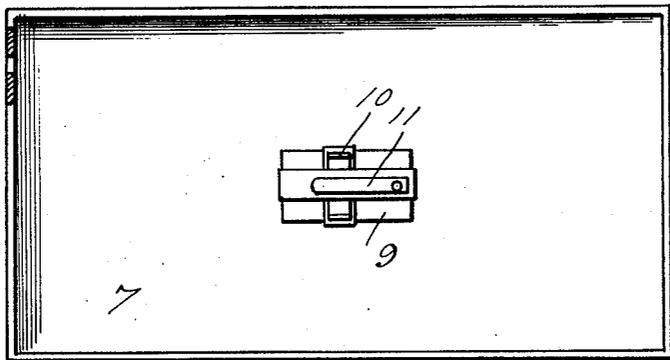
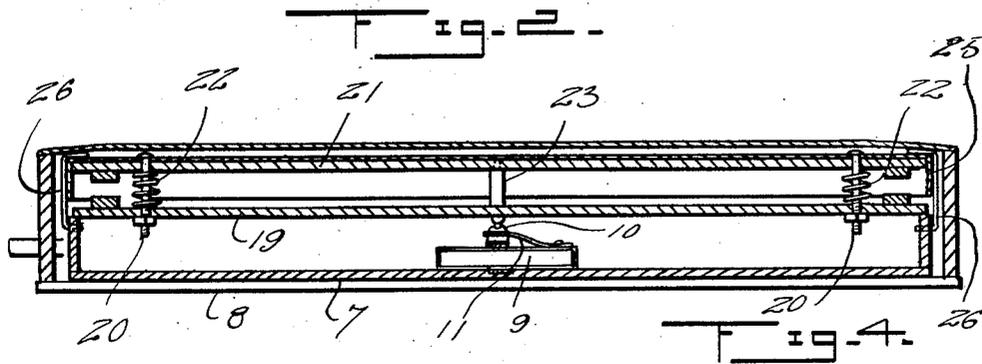
By *A. J. Handley, Jr.*
Attorney

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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

ROBERT J. CUTSHALL, OF MECHANICSBURG, ILLINOIS.

BURGLAR ALARM.

1,411,167.

Specification of Letters Patent. Patented Mar. 28, 1922.

Application filed December 29, 1917. Serial No. 209,530.

To all whom it may concern:

Be it known that I, ROBERT J. CUTSHALL, a citizen of the United States, residing at Mechanicsburg, in the county of Sangamon and State of Illinois, have invented certain new and useful Improvements in Burglar Alarms; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in burglar alarms and has for one of its objects the provision of a device of this character which may be associated with a door or the like and is adapted to complete an electric circuit to an alarm when the weight of a person is thereon.

Another object of this invention is the provision of a casing adapted to be embedded in the ground or hidden from view and having a circuit closer therein and adapted to be actuated under the weight of a person.

A further object of this invention is the provision of a burglar alarm of the above stated character which shall be simple, durable and efficient and which may be manufactured and sold at a comparatively low cost.

With these and other objects in view as will become more apparent as the description proceeds, the invention consists in certain novel features of construction, combination, and arrangement of parts as will be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawing, in which:—

Figure 1 is a front elevation of a building illustrating the burglar alarm constructed in accordance with my invention associated therewith and embedded in the ground.

Figure 2 is a longitudinal sectional view illustrating the circuit closer.

Figure 3 is a transverse sectional view illustrating the circuit closer.

Figure 4 is a plan view of a casing with the cover removed.

Figure 5 is a bottom plan view of the movable member of the circuit closer.

Referring in detail to the drawing, the numeral 1 indicates a building having a doorway 2 that is closed by a door 3. The foregoing description relates to a well known

construction of a building and with which my invention is associated.

A rectangular casing 4 is embedded in the ground 5 in front of the door 3 as clearly illustrated in Figure 1 and is closed by a cover 6 constructed from any water-proof fabric. The fabric is secured to the casing 4 by suitable fasteners. The casing 4 is embedded in the ground 5 and a thin layer of earth or the like is placed over the cover 6 so as to hide the same from view.

A rectangular member 7 is supported withing the casing 4 by strips 8 and has centrally arranged therein a supporting block 9 carrying a contact 10 which is insulated therefrom in any well known manner. A spring contact 11 is carried by the block 9 and has its free end spaced from the contact 10 and has connected thereto a conductor 12 which is connected to one pole of a switch 13 located within the building 1. The switch 13 has connected to its other pole a conductor 14 which is connected to a battery 15 located in the building. A conductor 16 is connected to the battery 15 and to an alarm 17 and which alarm is connected to the contact 10 by a conductor 18, whereby when the contact 11 moves into engagement with the contact 10 an electric circuit will be completed to the alarm 17 actuating the same providing the switch 13 is in a closed position.

A stationary member 19 is supported by the rectangular member 7 and has extending therethrough a plurality of bolts 20 which are carried by a movable member 21. The movable member 21 is supported in spaced relation to the stationary member 19 by means of coil springs 22 mounted upon the bolts 20 and interposed between the members 19 and 21. A pin 23 is carried by the movable member 21, and extends through an aperture 24 in the stationary member 19 and is adapted to move the contact 11 in engagement with the contact 10 upon movement of the movable member 21 in the direction of the stationary member 19. The movable member 21 has mounted thereon a metallic covering 24 which has its edges bent downwardly to form flanges 25 that extend in the direction of the stationary member 19 to form a protection to the springs 22.

In operation, the device is located in front of the door of a building and embedded so as to be hidden from view and upon a person stepping upon the same, the movable mem-

ber 21 will be moved downwardly causing the pin 23 to move the contact 11 in engagement with the contact 10 completing an electric circuit to the alarm 17. When it is not
5 desired to use the device the switch 13 may be opened breaking the circuit to the alarm 17. A plurality of rods 26 are carried by the rectangular member 7 and have their upper
10 ends bent to overlie the movable member 21 so as to limit the upward movement of said member.

While I have shown and described the preferred embodiment of my invention, it will be understood that minor changes in
15 construction, combination, and arrangement of parts may be made without departing from the spirit and scope of the invention as claimed.

What is claimed is:—
20 A circuit closure comprising a casing, a

switch therein, a closure for said casing, a frame surrounding and extending above said casing, a flexible closure at the top of said frame, an operating member between the
25 closures having a pin to pass through an opening in the first closure to operate the switch, bolts on the first closure slidably mounting the operating member and serving
30 as guides therefor, expansion springs surrounding the bolts between the first closure and operating member, a cover on said movable member secured by said bolts, and
flanges depending from the cover engageable with the casing to protect the springs.

In testimony whereof I affix my signature
35 in presence of two witnesses.

ROBERT J. CUTSHALL.

Witnesses:

D. P. ISAACS,
A. H. CRANE.