Nov. 24, 1925. 1,562,574

G. J. MAUD

PORTABLE BURGLAR ALARM

Filed July 10, 1923

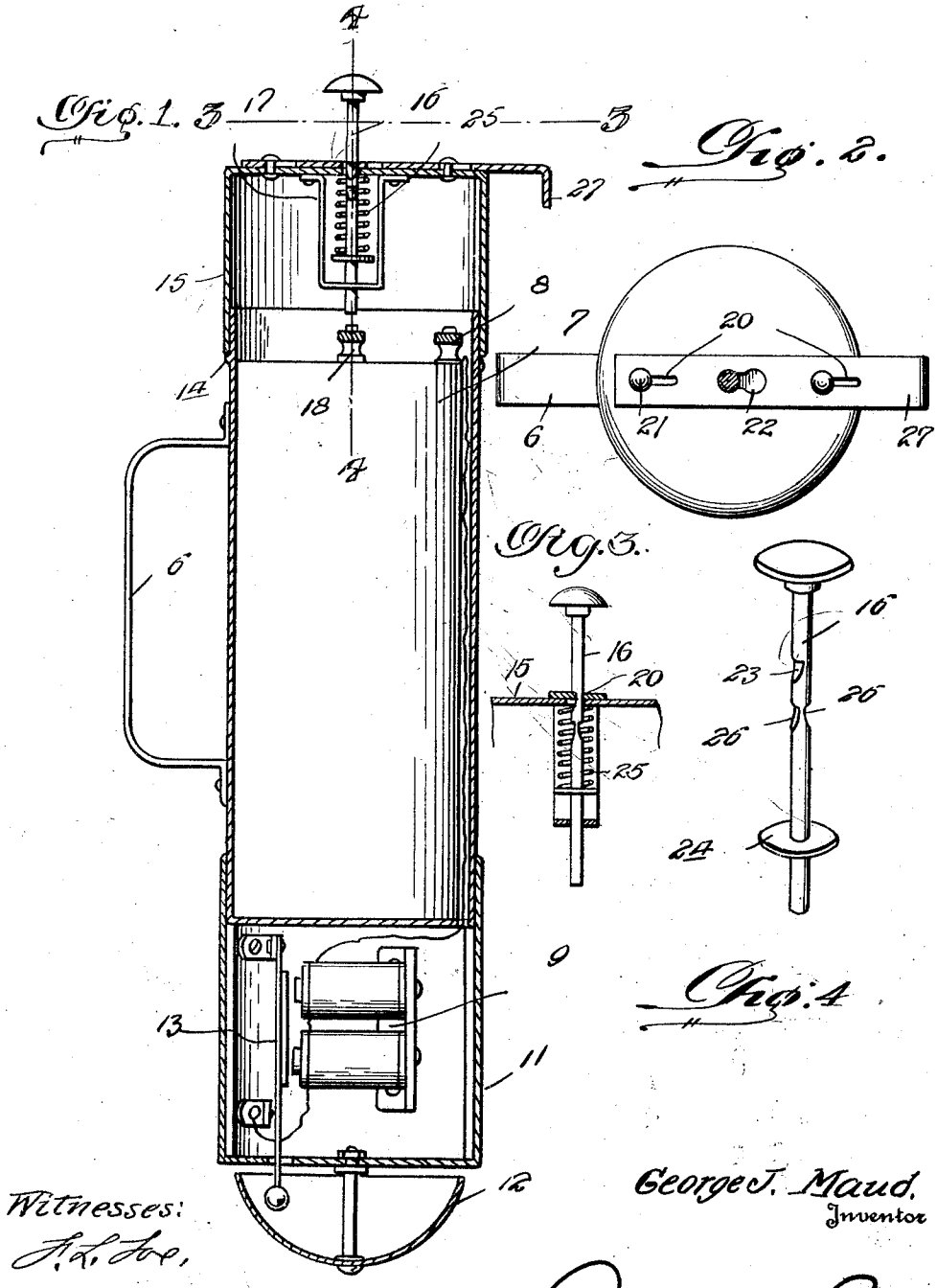

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

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PORTABLE BURGLAR ALARM.

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To all whom it may concern:

Be it known that I, GEORGE J. MAUD, a citizen of the United States, residing at Adena, in the county of Jefferson and State of Ohio, have invented certain new and useful Improvements in Portable Burglar Alarms, of which the following is a specification.

In carrying out the present invention, it is my purpose to provide a burglar alarm of the portable electric type, whereby the same may be placed in close proximity to windows or doors, to be actuated by said windows or doors, for giving an alarm whenever desired.

The primary object of my invention is to provide such an alarm that is extremely simple of construction, and one that embraces at the same time, the desired features of efficiency and durability, the device comprising relatively few parts, and these correlated in such a manner as to reduce the possibility of disarrangement to a minimum.

The nature and advantages of the invention will be better understood when the following detailed description is read in connection with the accompanying drawings, the invention residing in the construction, combination, and arrangement of parts as claimed.

In the drawings forming part of this application, like numerals of reference indicate similar parts in the several views, and wherein:

Figure 1 is a detail vertical cross section thereof.

Figure 2 is a transverse cross section upon the line 3—3 of Figure 1, showing more clearly the form of trigger mechanism for the movable contact member that forms an essential part of the present invention.

Figure 3 is a detail vertical cross section taken substantially upon the line 4—4 of the same figure, and

Figure 4 is an enlarged perspective of the circuit completing plunger, per se.

Now, having particular reference to the drawings, my novel alarm embodies a cylindrical container 5 open at one end, and provided with a desirable form of carrying handle 6. Within this container is any form of dry cell battery 7, the negative pole 8 of which has electrical connection to a pair of electromagnets 9, that are supported within a cylindrical cap, that is positioned over the closed end of the casing 5, as more clearly shown in Figure 2.

The cap carries an external bell 12 to be sounded by a hammer 13 that is also supported within the cap, and has its head projecting through an opening in the bottom wall thereof, as shown, it being of course understood that this hammer is to be vibrated by the pair of magnets 9.

Upon the opposite end of the casing 5 and having its lower edge supported upon a shoulder 14 formed upon the outer side of said casing and adjacent the upper end thereof is another cap 15, that has an opening in its closed end to permit the free sliding movement therein of a contact or circuit closing rod 16, this contact rod being additionally guided by a U shaped bracket 17, within said cap as shown in Figure 2. The contact rod 16 is in vertical alinement with the central positive pole 18 of said battery and is adapted for engagement therewith in a manner presently to be set forth for completing the circuit from the battery through the rod 16 through the cap 15, casing 5, shell 11 and back to the negative pole 8. Slidable upon the cap 15 is a strip 19, that is provided adjacent its opposite ends with guide slots 20 through which extend rivets 21 for allowing a free sliding movement of the strip in opposite directions. This plate or strip 19 is formed between said slots with an additional key slot 22, through which said contact rod 16 has movement. This rod is provided at one side at a point intermediate its ends with a notch 23, for receiving one of the side walls of the restricted portion of said key hole slot when the plate 19 has been moved to the position of Figure 3 for holding the contact rod in the position shown in Figure 2, that is, out of engagement with the positive pole 18 of the battery.

Surrounding the contact rod 16 between an abutment in the form of a disk 24 formed upon the rod and the top wall of said shell 15 is an expansion spring 25 that serves as a means for forcing the rod inwardly into engagement with the said pole 18, when the plate 19 is moved to the left. This rod 16 is additionally formed upon opposite sides and beneath the notch 23 with other notches 26 for positively retaining the same in inoperative position.

The plate 19, which is in reality a trigger is formed at one end with a lug 27, it being

apparent that after the alarm has been set as shown in several of the views, the article is placed adjacent a door, whereby the door will strike said lug for releasing the contact bar and completing the circuit to the magnets 9 for sounding the alarm.

In this connection, it should be noted that the aforesaid handle 6 rests upon the floor adjacent the door and prevents the device from rolling over and sliding along the floor. The handle need not necessarily be anchored upon the floor and when the door is forced against the device, it is slid along the floor against the action of the handle. The handle, however, holds the device in position sufficiently long enough to permit the door to close the trigger and to allow the alarm to operate.

Numerous advantages of a device of this character will be at once appreciated by those skilled in the art, and although I have herein shown and described the most preferred embodiment of the invention, it is nevertheless to be understood that minor changes may be made therein, without departing from the spirit and scope of the invention as claimed.

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

1. A device of the class described comprising a casing open at one end, a battery inserted into said casing through said open end and having its contacts close to said end, a closing cap for said open end fitted thereon, a guide carried by said cap and disposed in alignment with one of said contacts, a spring pressed circuit closing rod slidably mounted in said guide and adapted to be pressed against said last mentioned contact, said rod being provided between its ends with a retaining shoulder, a trigger slidably mounted upon the cap and provided with a key hole slot through which said rod passes slidably, the shoulder on said rod being operable with the restricted portion of said key hole slot, to maintain the rod in a set position, and an audible alarm mounted upon the casing having electric circuit connection with said battery.

2. A device of the class described comprising an open ended casing, a battery fitted into the casing through said open end, a closing cap for said open end, said cap being provided on its interior with a U-shaped guide member in alignment with the central contact of said battery, a circuit closing rod slidable through the cap and guide and cooperable with said central contact, a spring surrounding the rod for moving it into engagement with the contact, said rod being provided at its end with a notch forming a shoulder, a trigger slidably mounted upon said cap, the free end of the trigger being bent laterally to extend in parallelism with the body portion of the cap, the intermediate portion of the trigger being provided with a key hole slot, through which said rod is slidable, said shoulder being cooperable with the restricted portion of the slot to hold the rod in a predetermined position, another cap fitted upon the opposite end of the casing, electromagnets arranged in said second end cap, a wire connection between the magnets and the remaining contact of said battery, a bell carried by said second cap, and an armature cooperable with the magnets and equipped with a striker engageable with said bell.

In testimony whereof I affix my signature.

GEORGE J. MAUD.