T. L. PIDGEON.

BURGLAR ALARM BOLT.

APPLICATION FILED MAR. 17, 1915.

1,156,809.

Patented Oct. 12, 1915.

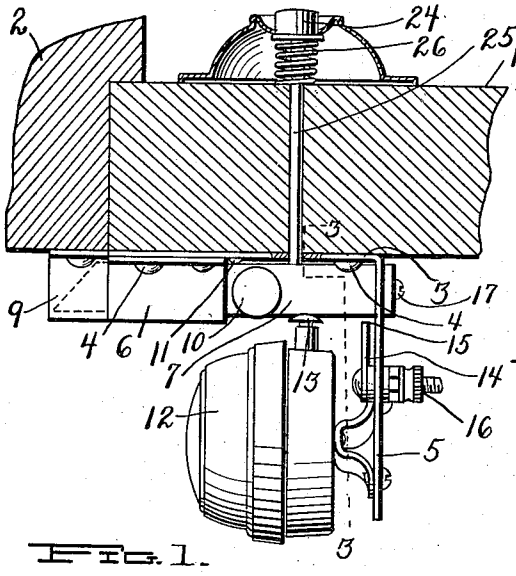


FIG. 1.

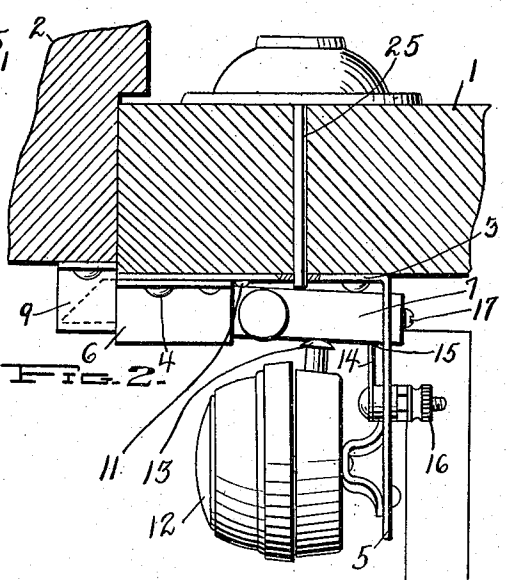


FIG. 2.

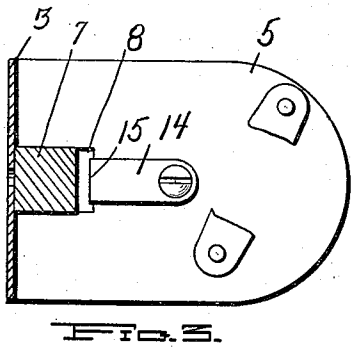


FIG. 3.

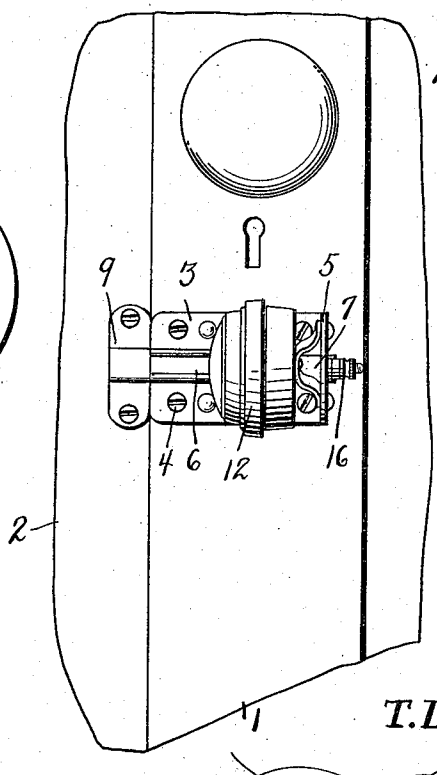


FIG. 4.

Witnesses

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BURGLAR-ALARM BOLT.

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To all whom it may concern:

Be it known that I, THOMAS L. PIDGEON, subject of the King of England, residing at St. Barnabe, in the county of St. Maurice, Province of Quebec, Dominion of Canada, have invented certain new and useful Improvements in Burglar-Alarm Bolts; 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 a burglar alarm bolt.

An object of the invention resides in the provision of a device by means of which a door may be locked and which, when an attempt is made to force the door, will give an alarm.

A further object of the invention resides in so constructing the device that a plurality of alarm bells will be provided, one of which will be mechanically operated and the other of which wil be electrically operated.

A still further object of the invention resides in so constructing the device that it may be used as an ordinary door bell.

With these and other objects in view, such as will appear as the description progresses, my invention comprises the combination and arrangement of parts as set forth in and falling within the scope of the appended claims.

Referring to the drawing: Figure 1 is a plan view of my device in use, showing the door and its casing in section and the parts in the positions they will occupy when the door is in its closed position. Fig. 2 is a similar view, but showing the position of the parts when the door is being forced open. Fig. 3 is a vertical sectional view on line 3—3 of Fig. 1, showing the relation of the locking bolt and the contact which it is adapted to engage. Fig. 4 is an elevational view of the device.

Referring to the drawing wherein like parts are indicated by like characters throughout the several views:—In the drawings I have illustrated a door 1 and a casing 2, in section, on which my device is mounted. The embodiment of my device shown includes an angular base plate which has a portion 3 arranged to be secured to the door by suitable screws 4 and a portion 5 extending outwardly at right angles thereto. Secured to the end of the portion 3 is a keeper 6 in which a bolt 7 is slidably mounted, one end of which bolt extends through an opening 8 in the portion 5 of the base plate. The end of this bolt 7 is beveled, as is usual, and is adapted to engage in a socket 9 secured to the casing 2. An operating handle 10 is secured to this bolt 7 and extends upwardly therefrom by means of which handle the bolt may be manually disengaged from the socket 9. The opening 8 is slightly larger than the bolt 7 and the keeper 6 is sufficiently larger than the bolt 7 to allow the bolt to have rocking movement on a projection 11 struck from the portion 3 of the base plate when pressure is applied to the beveled end of the bolt which would tend to move the end toward the portion 3 of the base plate. Secured to the portion 5 of the base plate is a bell 12 of the spring actuated type which has an outwardly extending spring pressed push button 13. The end of this push button bears against the adjacent face of the bolt 7 and tends to maintain the bolt in contact with the portion 3 of the base plate. However, when the beveled end of the bolt is operated in the manner above referred to, the bolt will be pushed away from the portion 3 of the base plate about the projection 11 as a pivot. This will force the push button 13 inwardly and the bell 12 will be rung.

In order that an electric bell may be simultaneously rung, I have provided a contact member 14 which is secured to the portion 5 of the base plate with its free end 15 projecting beyond the adjacent edge of the opening 8. Connected to this contact is a binding post 16 which extends outwardly from the opposite side of the portion 5 and is insulated from the said portion as is also the contact 14. Secured to the end of the bolt 7, which extends through the opening 8, is a binding post 17 which is in electrical communication with the said bolt. Secured to the binding post 17 is a wire 18 which extends to a switch 23 and thence to one pole of a battery 19. Extending from this battery is a wire 20 which is connected to an electric bell 21 of the ordinary type from which extends a wire 22 to the binding post 16.

When the bolt 7 is rocked by inward movement of the projection 11 in an attempt to open the door it engages the end of the contact 14 and completes the circuit just de-

scribed and causes the bell 21 to ring at the same time that the bell 12 is rung by the engagement of the bolt 7 with the button 13. It will thus be seen that as the attempt is made to force the door, both the bells 12 and 21 will be caused to sound an alarm. It is obvious that the bell 21 may be placed at any position in the house and it may or may not be used because of the presence of the switch 23 by means of which the circuit may be broken if desired.

In order that the device may be used as an ordinary door bell I have secured a push button 24 to the outer face of the door, the rod 25 of which extends through the door and the inner end of which rod projects through an opening in the portion 3 of the base plate and bears against the bolt 7. This rod is normally pushed outwardly, however, by a spring 26 in the push button casing. When the rod is pushed inwardly against the tension of the spring the engagement of the inner end thereof with the bolt 7 will cause the bolt to rock about the projection 11 as a pivot and thus ring the bell 12 and complete the circuit in which the bell 21 is included or ring the bell 12 alone if the circuit in which the bell 21 is included is broken by the switch 23.

From the foregoing description it will be seen that I have provided a device by means of which a door may be locked and which will give an alarm should an attempt be made to force the door. I have provided an electrically and a mechanically operated bell which will be simultaneously actuated upon the rocking movement of the locking bolt, which movement will be caused when an attempt is made to force the door open. I have further provided a push button by means of which the device may be used as an ordinary door bell and either the mechanically operated bell may be used alone or together with the electrically operated bell.

While I have illustrated and described a particular embodiment of my invention, I wish it to be understood that I do not wish to be limited to that particular embodiment as it is obvious that numerous changes may be made within the details of construction thereof without in any way departing from the spirit of the invention or exceeding the scope of the appended claims.

What I claim is:—

1. In a device of the class described, the combination with a slidable bolt for locking the door, means for supporting the bolt in such manner that it may have a rocking movement, a mechanically operated bell and an electrically operated bell operatively connected to said bolt in such manner that when a rocking motion is imparted thereto they will be simultaneously rung.

2. In a device of the class described, an angular base plate, a bolt slidably mounted on the said base plate, means for supporting the bolt in such manner that it may have rocking movement, a mechanically operated bell having a push button engaging said bolt, a binding post on said bolt, a contact on said base plate insulated therefrom, a circuit including a source of electrical supply and a bell having the said contact and binding post as terminals, the said push button and contact being so arranged that upon the rocking movement of the bolt the mechanically operated bell will be rung and the bolt will engage the contact and cause the electrically operated bell to be rung.

3. In a device of the class described, a base plate, a bolt slidably mounted thereon constructed and arranged to lock a door, means for supporting the bolt on the base plate in such manner that it may have rocking movement, a mechanically operated bell including a push button mounted on said base plate, the said push button being arranged to bear against the bolt, means for rocking the bolt to operate said push button to ring the bell, an electric bell, and means to ring the electric bell upon the inward movement of the push button.

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

THOMAS L. PIDGEON.

Witnesses:
H. MATTERN,
H. LAVERGNE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."