

(No Model.)

P. BYRNE.
BURGLAR ALARM.

No. 525,530.

Patented Sept. 4, 1894.

Fig. 1.

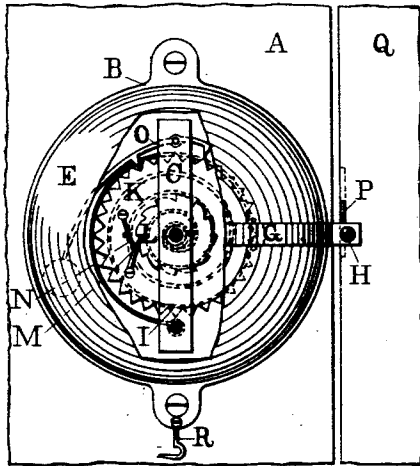


Fig. 2.

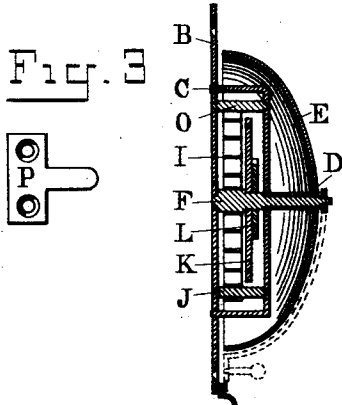


Fig. 3.



Fig. 5.

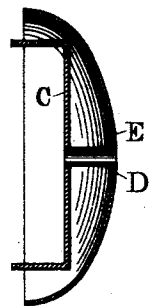


Fig. 6.

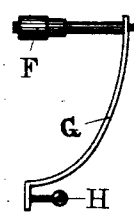
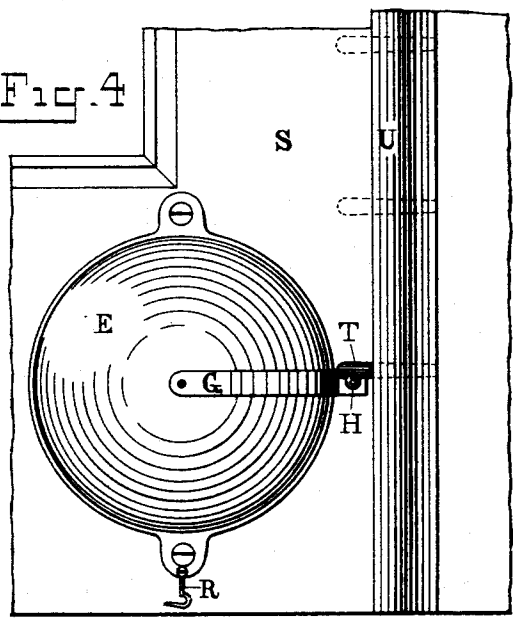


Fig. 4.



Witnesses

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BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 525,530, dated September 4, 1894.

Application filed April 23, 1894. Serial No. 508,733. (No model.)

To all whom it may concern:

Be it known that I, PATRICK BYRNE, a citizen of the United States, residing at Birmingham, in the county of Jefferson and State of Alabama, 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.

My invention relates to that class of burglar alarms in which a spring operates a striker against a bell, when the winding device is released by the opening of the door or window to which the device is attached; and the objects of my improvement are, first to provide a device of that kind which will be simple and cheap to construct, that can be readily attached to any door, window, or window blind; second, to provide an alarm of the above description which will be securely attached to the door, window or window blind on which it is used, thereby having the alarm always in position for setting, the device when unset not interfering with the opening or closing of the door or window to which it is attached; third, to provide an alarm to be attached to a door or window having a bell and striker operated by a spring which when wound up and set the door or window cannot be opened from the outside without giving an alarm. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1, is a vertical front view of my alarm attached to part of a door, a part of the bell broken out to show the interior works. Fig. 2, is a cross sectional view of the alarm through the center. Fig. 3, is a detail plan view of the keeper to hold the device wound up when set. Fig. 4, is a vertical front view of the alarm attached to part of a window sash, the device kept wound up by a pin in the window stop. Fig. 5, is a detail sectional view of the base plate, inside frame and bell, showing the tube connecting the bell and inside frame. Fig. 6, is a detail side view of the winding shaft and handle.

Similar letters refer to similar parts throughout the several views.

In the drawings A represents part of a door

having my burglar alarm attached. The base plate B of the alarm is made of sheet metal of the form shown, the inside frame C is made of sheet metal bent at right angles to form the ends, the frame is attached to the base plate by any of the usual methods, a metallic tube D is attached in the center of the inside frame the tube having a bell E attached to the upper end.

A winding shaft F formed as shown, is journaled at one end in the base plate, the other end passing through the tube to the outside of the bell, the shaft is provided at its upper end with a winding handle G bent to the form of the outside of the bell, the handle having a knob H attached at its outer end. A spring I is secured at one end, to the winding shaft F, the other end of the spring, is attached to a pin J secured in the base plate and the inside frame. A toothed wheel K is placed on the winding shaft F, the wheel rests on a shoulder formed above the spring and is loose on the shaft, to permit the alarm to wind up without turning the wheel. Above the toothed wheel attached to the shaft is a ratchet wheel L, the ratchet wheel is connected to the toothed wheel by a pawl M, a spring N holding the pawl to place, the pawl connecting the wheels permits the device to be wound without striking the bell, the reverse movement revolves both wheels, which sets the striker hereinafter described in motion and makes an alarm.

The striker O is made in the usual form of alarm strikers, it is pivoted in the base plate and inside frame as shown; when the alarm is attached to a door the keeper P is attached by screws to the inside of the door jamb Q, the keeper projecting slightly outside the face of the door, the projecting end of the keeper holds the winding handle when the device is wound and set, the door if opened releasing the winding handle from the keeper, sounds an alarm until the device is run down.

To permit the door to be opened from the inside and prevent the alarm from sounding, a hook R is provided to engage the winding handle, the hook is pivoted on the base plate, and can be hooked over the knob of the winding handle when turned down, the hook holding the handle in that position, until unhooked to reset the alarm.

Fig. 4, represents the alarm attached to a window sash S in the same manner as described for a door, a pin keeper T is inserted in the window stop U to hold the device wound up when set, the winding handle resting against the under side of the pin, a series of holes can be provided in the stop for the pin, as shown by dotted lines, to set the sash partly open for ventilation.

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

15 1. In a burglar alarm, the combination with a door of a burglar alarm having a winding shaft journaled in the base plate and tube attaching the bell, operating alarm mechanism attached to the shaft, a winding handle attached to the shaft on the outside of the bell, a keeper attached to the door jamb to hold

the handle when set, substantially as and for the purpose described.

2. The combination of a burglar alarm as shown and described attached to a door having a winding handle on the outside of the bell, a keeper attached to the door jamb to hold the handle when set, substantially as set forth.

3. The combination of a burglar alarm as shown and described having a winding handle on the outside of the bell, a hook pivoted on the base plate to engage the handle and prevent unwinding, substantially as set forth.

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

PATRICK BYRNE.

Witnesses:

A. G. WARE,

R. A. MCAELVOY.