No. 676,744. Patented June 18, 1901.

O. J. GATTEN.

BURGLAR ALARM.

(Application filed Feb. 4, 1901.)

(No Model.)

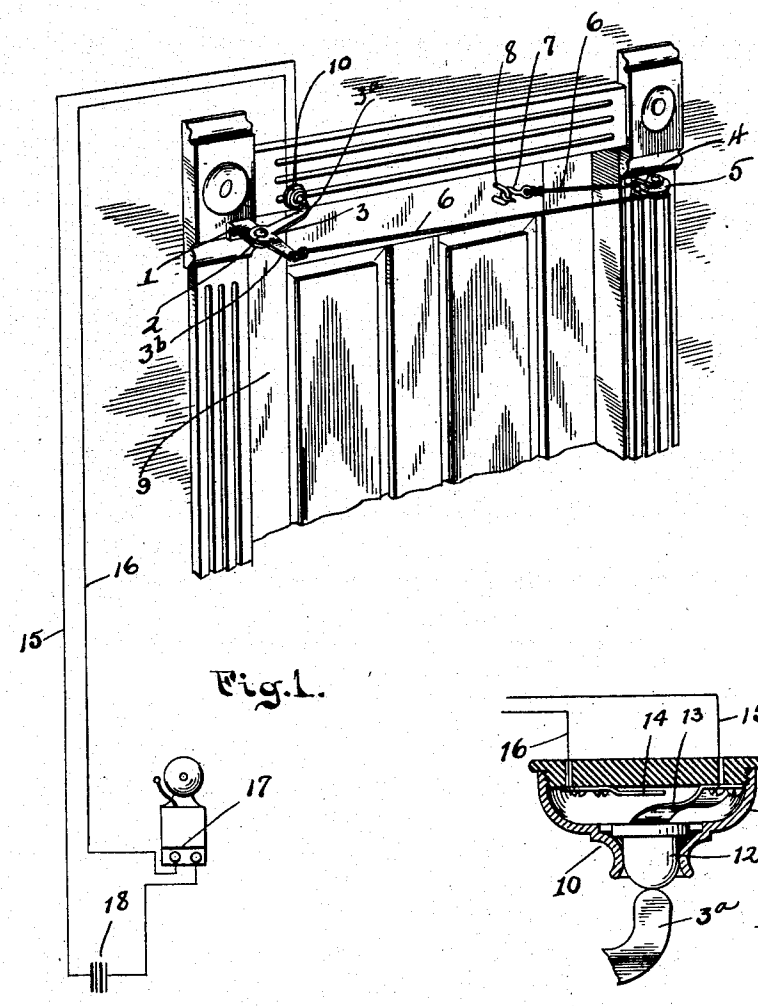


Fig. 1.

Fig. 2.

WITNESSES:

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BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 676,744, dated June 18, 1901.

Application filed February 4, 1901. Serial No. 45,844. (No model.)

To all whom it may concern:

Be it known that I, ORVAL J. GATTEN, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Burglar-Alarms, of which the following is a specification.

My invention relates to the improvement of burglar-alarms of that class which are adapted for employment in conjunction with house doors and windows; and the objects of my invention are to provide an improved attachment for doors whereby the opening of the same results in the ringing of an alarm-bell and to produce certain improvements in details of construction and arrangement of parts, which will be more fully pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a view in perspective of the upper portion of a door and door-frame, showing my improved alarm mechanism thereon; and Fig. 2 is a central sectional view of the push-button, showing a portion of the button-depressing arm.

Similar numerals refer to similar parts throughout both views.

In carrying out my invention I secure to a door-frame, near the upper portion of one side thereof and on the inner side of the doorway, a projecting bracket 1 of suitable form, and on this bracket is pivotally supported at 2 at the junction of its arms a bell-crank lever 3. One arm 3^a of this lever has its outer end portion bent so as to normally project toward the top of the door-frame, while the remaining arm 3^b thereof extends outward, as shown. On the opposite side of the door I connect with the door-frame in its upper portion a pulley-bracket 4, in which is journaled a pulley 5 of desirable size. 6 represents a cord one end of which is secured to the bell-crank-lever arm 3^b, from which point said cord runs to and about the pulley 5, being provided at its unattached end with a hook 7. This hook, as indicated in the drawings, is adapted to be detachably connected with a staple 8, projecting from the inner side of the upper portion of the door 9.

With the upper portion of the door-frame I connect an electric push-button 10, of which 11 represents the button-case, 12 the depressible button, and 13 and 14 the normally-separated spring contact-strips. From these contact-strips lead wires 15 and 16, the wire 16 leading to one post of an electric bell 17 and the wire 15 running through a battery 18 to the remaining post of said electric bell. The hook 7 being engaged with the staple 8 of the door, it is obvious that the opening of said door will result, through the consequent pull on the cord 6, in the bell-crank arm 3^a contacting with and depressing the button-body 12 until the contact-strip 13 is in contact with the strip 14, thus closing the circuit through the battery and bell and resulting in the ringing of the latter in the usual manner. From this operation it will be seen that the opening of a door having my device in connection therewith will be indicated by the ringing of an alarm-bell.

When it is desired to open and close the door without producing the alarm, the hook 7 may be disengaged from the staple 8.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

In a burglar-alarm, the combination with a door-frame, a bell-crank lever pivoted therefrom, of an electric push-button arranged on said door-casing, an alarm-bell, wire connections between the contact-strips of said push-button and the posts of an electric bell through a battery, a journaled pulley 5 and a cord having one end connected with the outer end of said bell-crank, said cord running over said pulley and terminating in a hook, said hook adapted to be detachably connected with a door, substantially as specified.

ORVAL J. GATTEN.

In presence of—

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