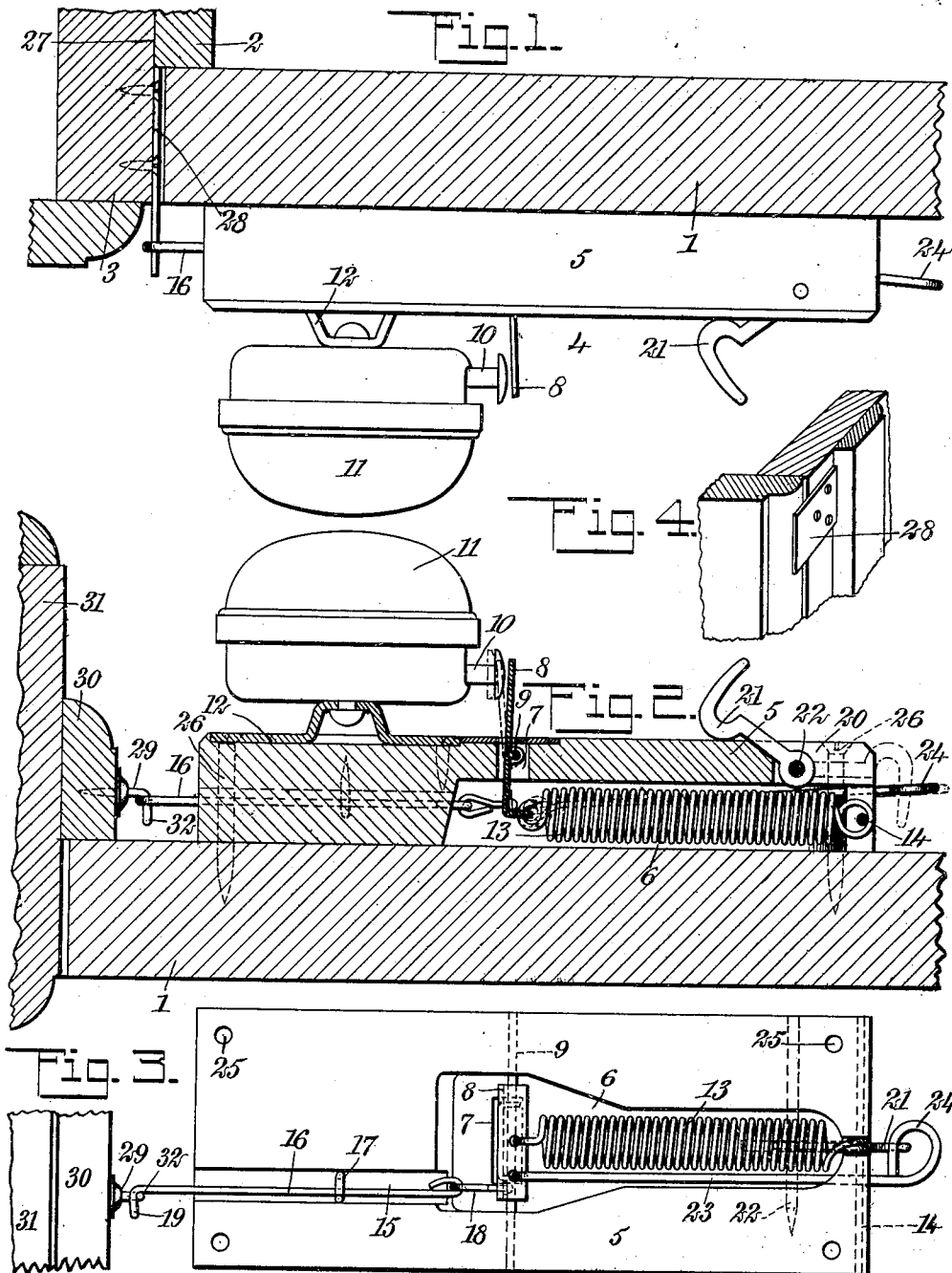


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BURGLAR ALARM.
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920,681.

Patented May 4, 1909.



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HARRISON SPENCER, OF RIDGEFIELD PARK, NEW JERSEY.

BURGLAR-ALARM.

No. 920,681.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HARRISON SPENCER, a citizen of the United States, and a resident of Ridgefield Park, in the county of Bergen and State of New Jersey, have invented a new and Improved Burglar-Alarm, of which the following is a full, clear, and exact description.

This invention relates to burglar alarms, and the object of the invention is to produce a device of this class which will operate without the use of electricity, and which can be readily attached to a door or window in such a way that it will indicate instantly when the door or window is opened.

More specifically the invention relates to that type of alarm which employs a bell which rings automatically when its plunger is pressed, and the invention concerns itself especially with the construction of means for pressing the plunger of the bell and for disengaging the operating mechanism of the device when desired.

The invention consists in the construction and combination of parts to be more fully described hereinafter and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a horizontal section through the edge of a door showing a part of the door jamb and one of my alarm devices attached to the door and shown in side elevation; this view illustrates the manner of applying the device to the outer side of the door, that is the side of the door toward which the door moves in opening; Fig. 2 is also a horizontal section taken through a door and part of the jamb and illustrating the application of the device to the inner side of the door, that is to the side of the door away from which the door swings in opening; in this view the alarm mechanism is shown also in longitudinal section; Fig. 3 is an elevation showing the inner face of the alarm device and its relation to the door jamb, this view is virtually a front elevation of Fig. 2 with the door removed; and Fig. 4 is a perspective showing a short portion of the jamb, and illustrating the manner of applying the keeper or keeper plate which is used when the device is applied on the outer side of a door.

Referring more particularly to the parts,

and especially to Fig. 1, 1 represents a door which closes against a stop 2 of the jamb 3. On the outer face of the door my device 4 is attached, a section of this device being most clearly illustrated in Fig. 2. It comprises an elongated block or case 5 which is attached in a horizontal position near the edge of the door, and the end of the device which is remote from the edge of the door is formed with a pocket 6, as shown in Figs. 2 and 3. The outer side of the block or case 5 is provided with a slot 7, which communicates with the pocket 6, as shown. In this slot 7 a rocker plate 8, is mounted to rock upon a transverse pin 9 as shown. The outer part of this plate lies close to the button or plunger 10 of an automatic bell 11, said bell being mounted upon a suitable bracket plate 12, on the outer side of the case or block 5. This bell 11 is of any well-known form which is adapted to ring continuously when its operating button or plunger 10 is pressed. The inner end of the rocker plate 8 projects into the pocket 6 and is attached to a helical spring 13, which extends longitudinally in the pocket, the rear end of the spring being secured in the outer end of the case 5 by a suitable pin 14.

On the under side of the block or case 5 there is provided a groove 15, which extends from the pocket 6 to the inner end of the case. In this groove there is guided a trigger or link 16 which is preferably formed of wire or similar material. This link is guided longitudinally through a staple 17 or similar fastening means located in the groove 15. The inner end of this link 16 is connected by a short link 18 with the lower end of the rocker plate 8. The trigger 16 projects beyond the block 5 and is provided with a laterally bent finger 19. At the end of the case or block 5 which is remote from the edge of the door a slot 20 is formed, and in this slot a hook 21 is pivoted at 22. Adjacent to the lower end of the rocker plate 8 I provide a stem 23 which passes longitudinally in the pocket 6 to the end of the case, from which it projects, the projecting part being bent so as to form an eye 24, as shown.

The block or case 5 is provided with openings or screw holes 25, by means of which suitable fastening devices 26 may be applied for securing the device on the door. When the device is applied to the outer side of the door as illustrated in Fig. 1, upon the inner face 27 of the jamb I provide a keeper or

keeper plate 28 of simple rectangular form, as illustrated in Fig. 4. This keeper projects from the jamb as shown, so as to be in a position to be engaged by the finger or hook 19 on the end of the trigger 16, when the trigger is pulled outwardly in such a way as to expand the spring 13. In this way the device will be held in a set position and so that it will be sprung when the door is opened, for it will be evident that when the door opens the trigger will slide off of the keeper and the spring will be released. When the spring is released in this way it forces the outer end of the rocker plate 8 against the button or plunger 10 and the bell or alarm 11 will begin to ring and will ring continuously. If it is desired to disengage or lock the mechanism in the case 5, so that it will not operate to ring the bell in opening or closing the door, the hook 21 is rotated down into its slot 20 in such a way that its bill extends into the eye 24. The parts are arranged so that when the hook is in position it holds the stem 23 against outward longitudinal movement, so that the spring cannot contract, in other words the hook constitutes independent means for locking the spring extended. This hook will be used principally in the daytime.

When the device is applied to the inner side of the door, instead of providing a keeper in the form of a plate, I simply provide a hook 29 of common form which is screwed into the side of a stop 30 of the jamb 31. This hook 29 has a horizontal, laterally disposed finger or bill 32 which projects from the door, and this bill is engaged by the finger 19 of the trigger so as to hold the spring extended. Evidently when the door opens, the trigger will become disconnected from the catch 29 and the bell will ring in the manner suggested.

It will be observed that in both applications of the device it is only necessary that the keeper should project in the direction in which the door opens.

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

1. In an alarm device, in combination, an elongated case having an opening in the wall thereof, an alarm mounted on the outer side of said case and having a controlling plunger, a rocker plate pivotally attached to said case

and passing through said opening, said rocker plate having a member adapted to engage said plunger to actuate said alarm and having a part projecting into the interior of said case, a spring attached to said rocker plate within said case and tending to force the same into engagement with said plunger, a trigger attached to said rocker plate within said case, extending longitudinally of said case and adapted to engage a member attached to the door jamb, a stem attached to said rocker plate within said case and extending in an opposite direction from said trigger, and a member attached to said case and adapted to engage said stem to lock said rocker plate against movement.

2. In an alarm device, in combination, a case, an alarm device mounted on the outer side of said case and having a controlling plunger movable longitudinally with respect to said case, a rocker plate pivotally mounted on said case and having a part lying adjacent to said controlling plunger, a spring attached to said rocker plate and tending to move the same upon said plunger, a trigger also connected with said rocker plate and extending toward the door jamb, and a keeper attached to the jamb and engaging said trigger to hold said spring normally extended.

3. In an alarm device, in combination, a case, an alarm mounted thereupon having a controlling plunger, a rocker plate mounted on said case and having a part disposed near said plunger, a spring attached to said rocker plate and tending to move the same upon said plunger, a trigger also connected with said rocker plate and extending toward the door jamb, a keeper plate attached to the jamb and engaging said trigger to hold said spring extended, a stem also attached to said keeper plate, and means for locking said stem against longitudinal movement when said spring is extended, said last means being independent of said means which engages said trigger.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HARRISON SPENCER.

Witnesses:

H. H. HOLMES,
JOSEPH L. STEARNS.