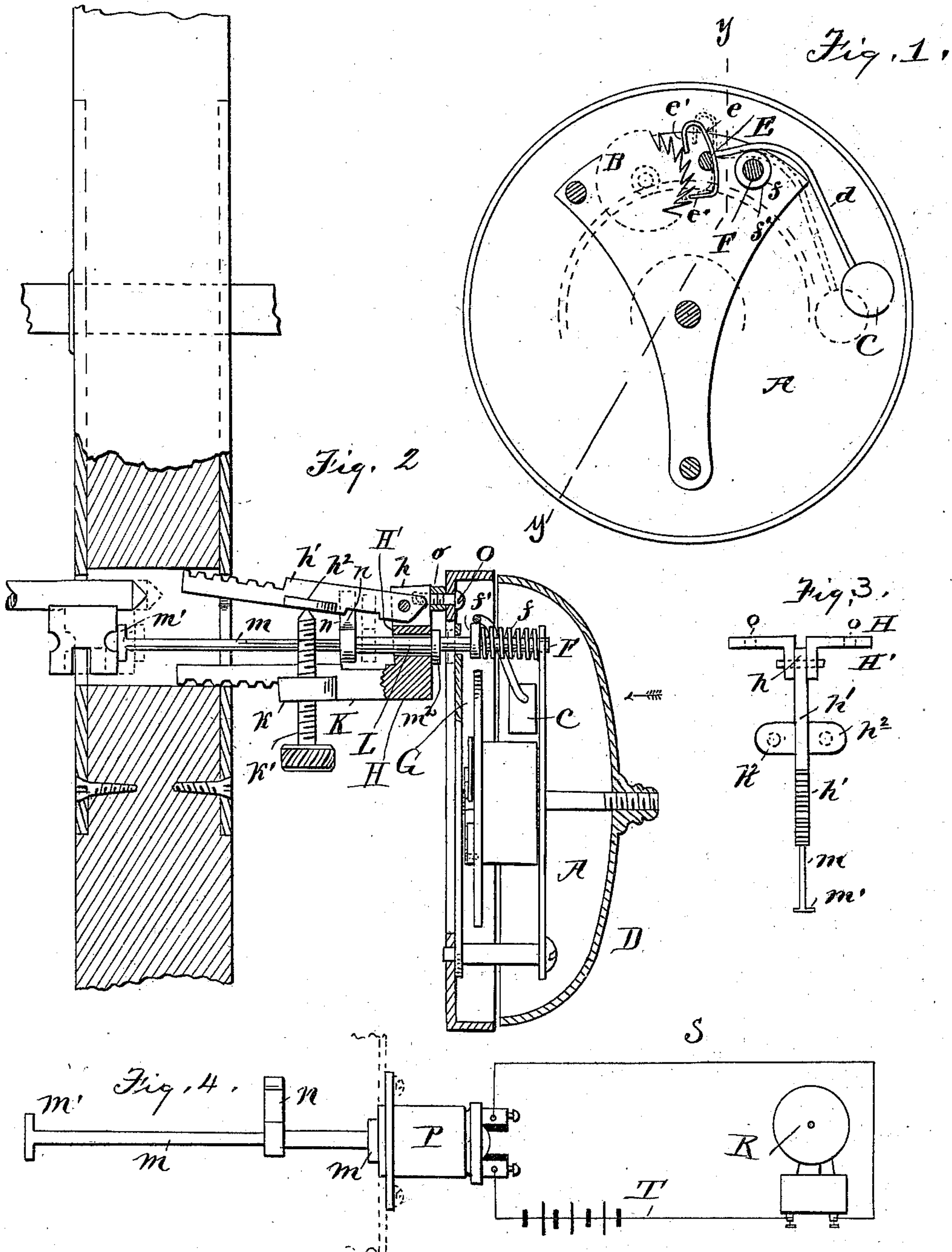


(No Model.)

T. J. SUTTON.  
BURGLAR ALARM.

No. 555,982.

Patented Mar. 10, 1896.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

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## BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 555,982, dated March 10, 1896.

Application filed April 9, 1895. Serial No. 545,060. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS J. SUTTON, a citizen of the United States, and a resident of New York, county of New York, and State of New York, have invented certain new and useful Improvements in Burglar-Alarms, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to burglar-alarm bells; and the object thereof is to provide a simple attachment for such devices so constructed and applied that the bell with its attachment can be applied to any door or to the keyhole thereof in such a manner that the alarm will be operated by the insertion of a key in an effort to unlock the door, and which can also be applied to an ordinary push-button of an electric bell.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a plan view of an ordinary alarm-bell, the top or cover being removed, the view being taken in the direction of the arrow shown in Fig. 2; Fig. 2, a section on the line *y* of Fig. 1, and also showing my improvement attached thereto and connected with a door; Fig. 3, a top plan view of my attachment, and Fig. 4 shows the method of applying my improvement to an ordinary electric bell.

In the practice of my invention I employ an ordinary spring-operated alarm-bell A, having a spring-operated ratchet-wheel B, a hammer C, mounted on the outer end of a curved arm or lever *d*, secured to a shaft E, to which is attached a verge *e*, having at each end prongs *e'*, adapted to operate in connection with the ratchet B to operate the alarm.

A push-pin F is supported within a frame adjacent to the shaft E, which carries a helical spring *f*, and on which is secured an annular shoulder *f'*, adapted to hold the arm or lever *d* normally in the position shown in full lines in Fig. 1, and this pin F extends through the back casing G and is operated by pressing on the end thereof.

When the pin F is pressed inward against the pressure of the spring *f*, the shoulder *f'*

will be released from contact with the arm *d* and the ratchet B will be revolved in the direction of the arrow and the alarm sounded by the teeth thereof operating on the curved prongs *e'* of the verge *e*, and when the pressure on the end of the pin F is removed the spring *f* thereon will force the shoulder *f'* into contact with the arm *d* and stop the alarm.

My attachment consists of a base-plate H, having a central vertical shoulder or projection H', in which is a top slot *h*, in which is pivoted an arm *h'*, the outer upper side of which is provided with notches or recesses, as shown in Fig. 3, and the lower central portion with a transverse plate *h*<sup>2</sup>.

To the lower side of the plate H, in vertical line with the arm *h'*, is rigidly secured an arm K, having a plate *k*, which corresponds with the plate *h*<sup>2</sup> on the arm *h'*, through which at each end is passed a screw-pin or bolt *k'*, adapted to bear against the ends of the plate *h*<sup>2</sup> on the pivoted arm *h'* and force said arm upward, the lower ends of said screw-pins being provided with milled heads by which they are operated.

It will be observed that the lower side of the arm K is provided at the outer end thereof with notches or recesses which correspond with those in the arm *h'*, and passing through a central bore L in the shoulder H' and plate H is a rod *m*, provided on its inner end with a head *m*<sup>2</sup>, adapted to be pressed against the end of the spring-operated pin F. The rod *m* is also provided at its outer end with a short pin or head *m'* and near the inner end with an arm *n*, rigidly secured thereto.

The attachment and bell are united by small screws O, which pass through short journals or bearings *o*, as clearly shown in Fig. 2.

When it is desired to apply or use the alarm, the attachment having been secured to the bell as described, the arms *h'* and K are inserted into the keyhole of a lock or door, as shown in Fig. 2, from the inner side thereof. The screws *k'* are then operated to force the upper arm upward and securely hold the entire device, as shown in said figure. If now an attempt be made to unlock the door from the outer side by inserting a key or other instrument, the same will strike the end of the rod *m* or the cover-head thereof and force it



inward against the push-pin F and sound the alarm, as will be readily understood.

The use of the arm *n*, secured to the rod *m*, is to turn said rod so that the the cross-head  
5 thereon will be vertical when it is being inserted into the keyhole and afterward to turn the same crosswise of the keyhole and insure its being struck by the key.

In Fig. 4 I have shown or indicated the application of my improvement to an ordinary  
10 electric bell, the push-button thereof being shown at P and the alarm-bell at R, provided with the usual connecting-wires S and T, all the aperture part of my attachment being  
15 omitted, this illustration being only for the purpose of showing that the improvement may be applied to electric alarm-bells now in use.

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

1. The combination with an alarm-bell operated by a push-pin, of an attachment secured thereto, consisting of a base-plate having  
25 a fixed arm and an arm one end of which is pivoted thereto above the fixed arm and each arm being provided with cross-plates through one of which extend screws adapted to bear upon the other, and a sliding rod be-

tween said arms, one end of which is adapted  
30 to be pressed against the push-pin, and the other to extend into the keyhole of a door and be operated by a key inserted therein, said rod being provided with a cross-head at its  
35 outer end, and an arm secured thereto, near its inner end by which it may be turned in its bearings or supports, the arrangement being such that the arms can be secured within the keyhole of a door by means of the screws operating on the arms, substantially as and for  
40 the purpose set forth.

2. The combination with an alarm-bell adapted to be operated by a push-pin, of an attachment secured thereto consisting of a  
45 base-plate, a fixed arm on the base-plate, an arm pivoted to the fixed arm, cross-plates on said arms and a sliding rod between the arms, one end of which is adapted to operate the push-pin and the other end to enter the key-  
50 hole of the door, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 6th day of April, 1895.

THOS. J. SUTTON.

Witnesses:

PERCY T. GRIFFITH,  
A. M. CUSACK.