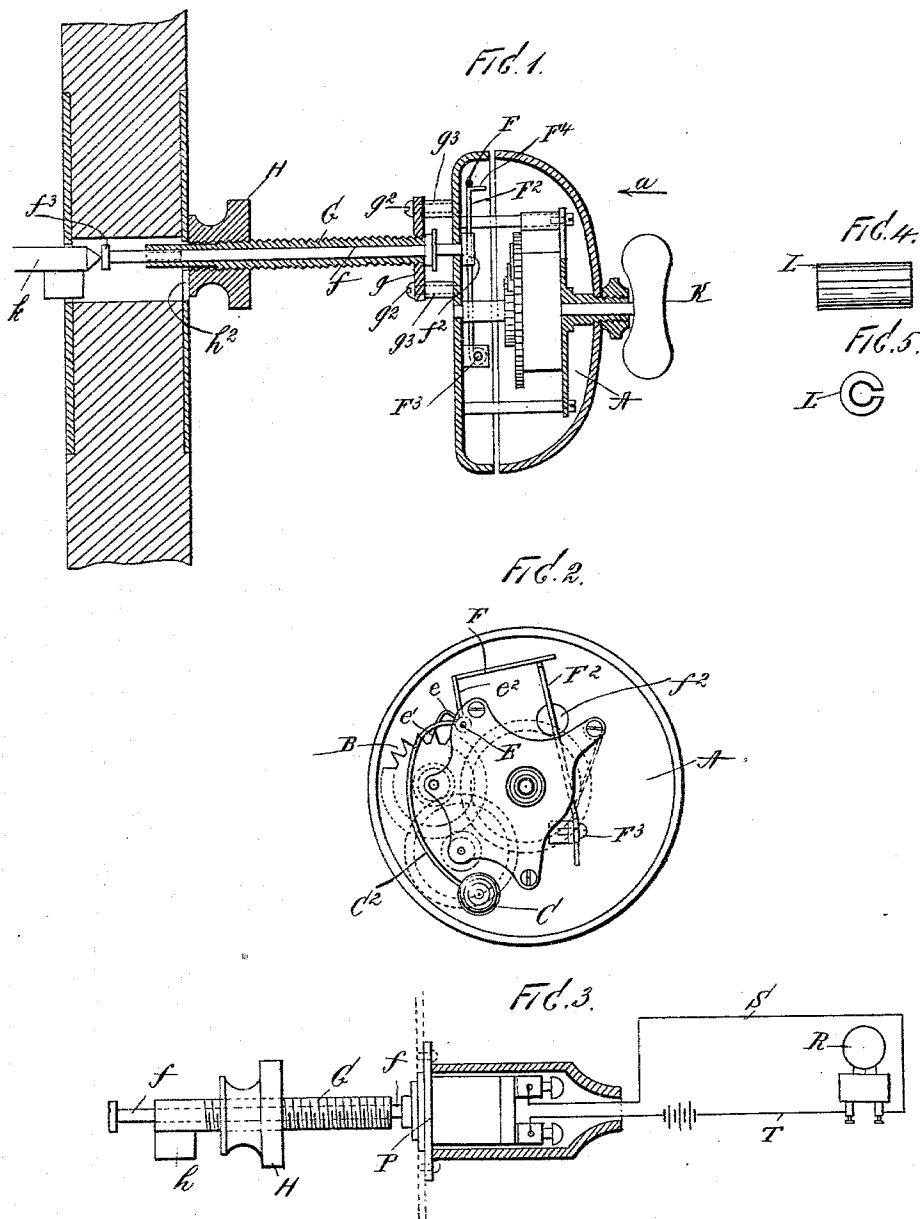


(No Model.)

T. J. SUTTON.
BURGLAR ALARM.

No. 559,631.

Patented May 5, 1896.



WITNESSES:

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UNITED STATES PATENT OFFICE.

THOMAS J. SUTTON, OF NEW YORK, N. Y.

BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 559,631, dated May 5, 1896.

Application filed January 25, 1896. Serial No. 576,809. (No model.)

To all whom it may concern:

Be it known that I, THOMAS JAMES SUTTON, a citizen of the United States, and a resident of New York, in the 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 which is so constructed and arranged that the bell with its attachment can be applied to any door or to the keyhole thereof in such 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 vertical section of a portion of a door and the keyhole thereof, showing also my improved alarm connected therewith, the casing of the alarm-bell, which forms a part thereof, and other parts of the device being also shown in section; Fig. 2, a plan view of an ordinary alarm-bell, the top or cover thereof being removed, said view being taken in the direction of the arrow *a* shown in Fig. 1. Fig. 3 shows the method of applying my improvement to an ordinary electric bell; and Figs. 4 and 5 represent a side and end view, respectively, of a detail of the construction which I employ.

In the practice of my invention I employ an ordinary spring-operated alarm-bell A, having a spring-operated ratchet-wheel B, a head C, mounted on the outer end of the curved arm or lever C², which is secured to a shaft E, to which is secured a verge *e*, having a prong *e'*, adapted to operate in connection with the ratchet-wheel B, and an end or projection *e''*, to which is secured an arm F, the outer end of which comes in contact with the end of an arm or lever F², one end of which is secured to the back of the alarm-bell, as shown at F³, the free end of said arm or lever being provided with a projecting

arm F⁴, against which the arm F of the verge *e* rests when in a normal position. I also provide a push-pin *f*, which is provided with a head *f''*, which is provided with a transverse slot, in which the arm or lever F² rests, and the push-pin *f* is supported in a tubular rod or casing G, which passes through a plate *g*, which is connected with the back of the alarm by means of pins or bolts *g''*, which pass through the tubular heads *g''*.

The tubular rod or casing G is screw-threaded, and mounted thereon is an adjustable head or bearing H, and the end of said tubular casing G is provided at one side with a shoulder or projection *h*, as shown in Fig. 3, and said end is adapted to be inserted into an ordinary keyhole *h''* and the end of the push-rod *f* projects from the end of the tubular casing or rod G and is provided with a head *f''*.

The spring of the alarm-bell is adapted to be wound by a key K, which is shown in Fig. 1, and the operation of this construction will be readily understood in view of the foregoing description, when taken in connection with the accompanying drawings and the following statement thereof.

It will be understood that my improved alarm, as herein shown and described, is adapted to be connected with the lock of a door from the inner side thereof and to be operated by a key inserted from the outer side of the door, and in connecting the alarm with the door the end of the tubular rod or casing G is inserted into the keyhole and turned so that the shoulder or projection *h* on the end thereof will extend transversely of said keyhole and hold the tubular rod or casing G therein, and the head H is then screwed against the outer side of the lock, as shown in Fig. 1, so as to firmly hold the device in connection with the lock. When thus secured in position, if a key *k* be inserted into the lock on the opposite side, as shown in Fig. 1, the push-rod *f* will be operated thereby and forced inwardly, and the head *f''* thereof will operate in connection with the arm or lever F² and force the same inwardly and thus release the arm F of the verge *e*, and this operation will release the end or projection *e'* of said verge and the ratchet-wheel E will be revolved by the spring of the alarm-bell, and

the revolution of this wheel will operate in connection with said verge to operate the arm or lever C² and the head C thereof to sound the alarm.

5 In Figs. 4 and 5 I have shown a short tubular sleeve L, which is adapted to be placed on the outer end of the tubular casing G, so as to adapt the same for use in connection with keyholes of different sizes, and in Fig. 3
10 I have shown or indicated the application of my improvement to an ordinary electric bell, the push-button thereof being shown at P and the alarm-bell at R, and said alarm-bell is connected with the usual connecting-wires
15 S and T, and the operation of this form of construction will be readily understood from the foregoing description of the operation of the construction shown in Figs. 1 and 2.

My improved alarm apparatus is simple in
20 construction and operation and perfectly adapted to accomplish the result for which it is intended, and it is also comparatively inexpensive, and, as will be understood, it may be applied to almost any, if not every, form
25 of door-lock now in use, and it is evident that changes in and modifications of the construction herein described may be made without departing from the spirit of my invention or sacrificing its advantages.

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

1. The combination with an alarm-bell which is adapted to be operated by a push-

rod, of a tubular casing secured thereto, in
35 which said push-rod is mounted, the end of said tubular casing being adapted to be inserted into the keyhole of a door, and said push-rod being adapted to be operated by a
40 key inserted at the opposite side of the door, and said tubular casing being provided with a shoulder or projection, at the outer end thereof, and being also screw-threaded and
45 provided with a correspondingly-threaded and adjustable head which is mounted thereon, substantially as shown and described.

2. The combination with an alarm-bell, which is adapted to be operated by a push-rod, of a tubular casing secured thereto, in
50 which said push-rod is mounted, the end of said tubular casing being adapted to be inserted into the keyhole of a door, and being also provided with a detachable sleeve which
55 is adapted to be connected therewith, whereby it is adapted for use in connection with keyholes of different sizes, and said push-rod being adapted to be operated by a key inserted
60 at the opposite side of the door, substantially as shown and described.

In testimony that I claim the foregoing as
65 my invention I have signed my name, in presence of the subscribing witnesses, this 20th day of January, 1896.

THOMAS J. SUTTON.

Witnesses:

C. GERST,

L. M. MULLER.