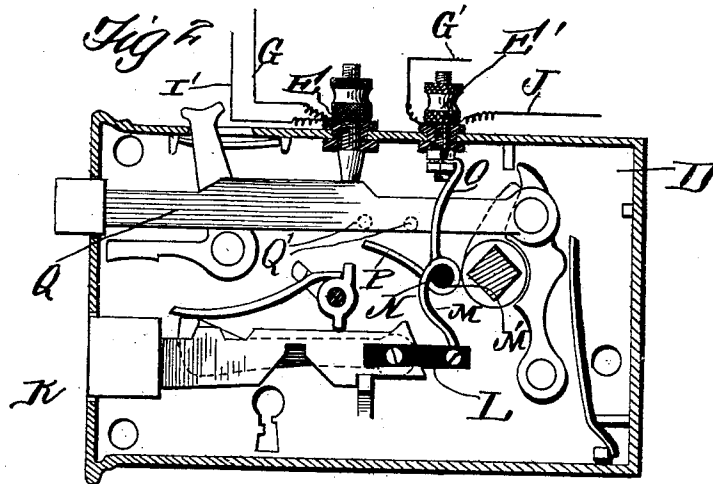
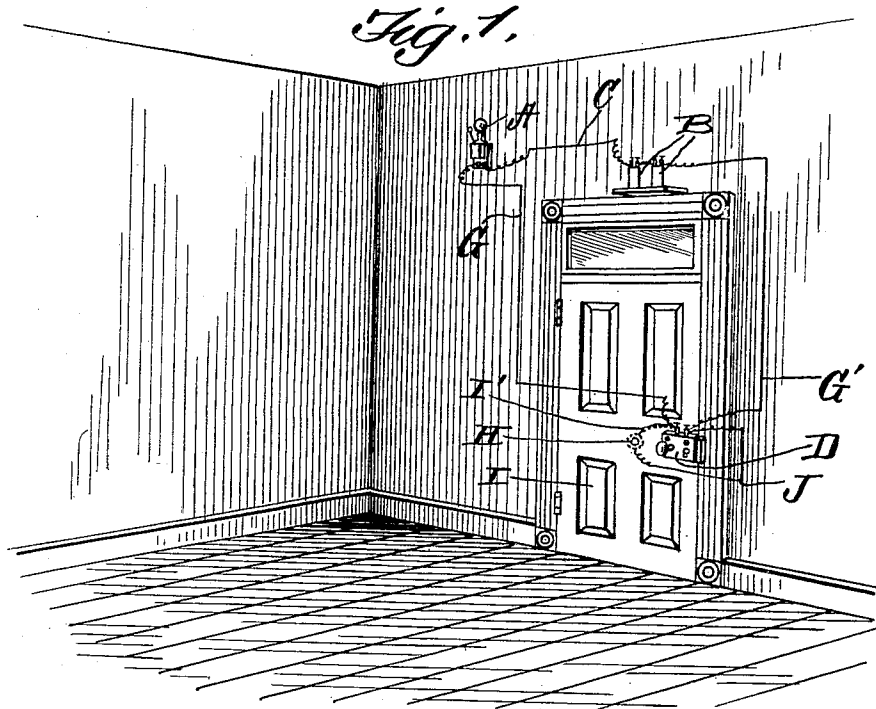


A. VERHOEVEN.
BURGLAR ALARM.
APPLICATION FILED MAY 6, 1909.

932,358.

Patented Aug. 24, 1909.
2 SHEETS—SHEET 1.



Witnesses

R. H. Joswell.
A. L. Hough

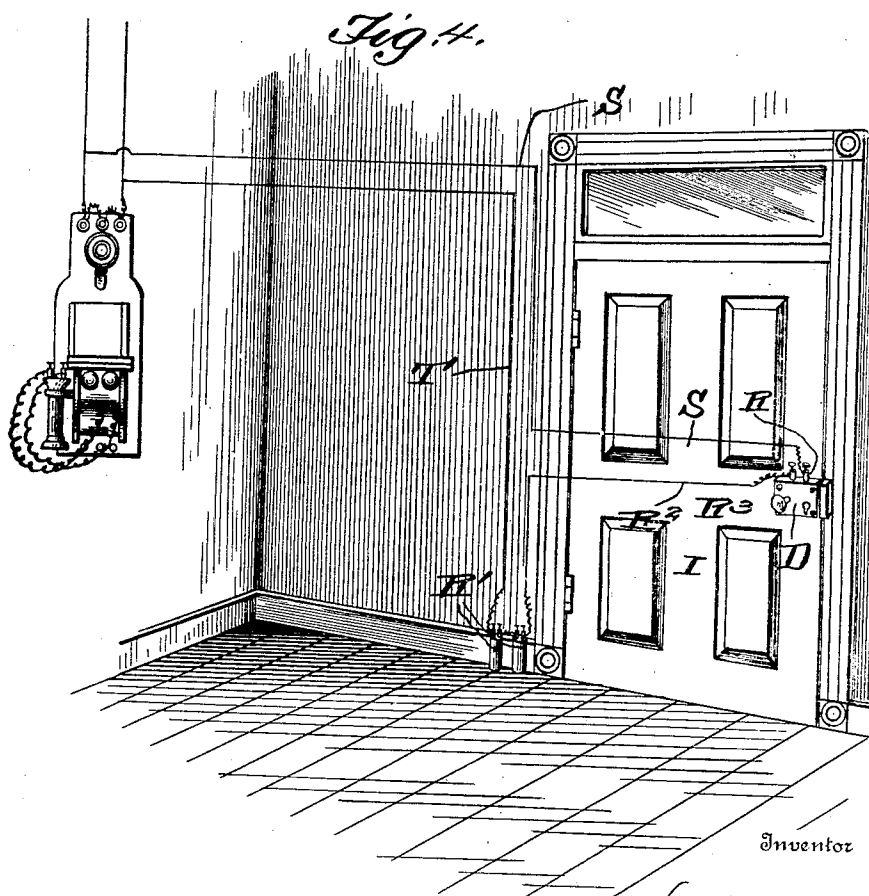
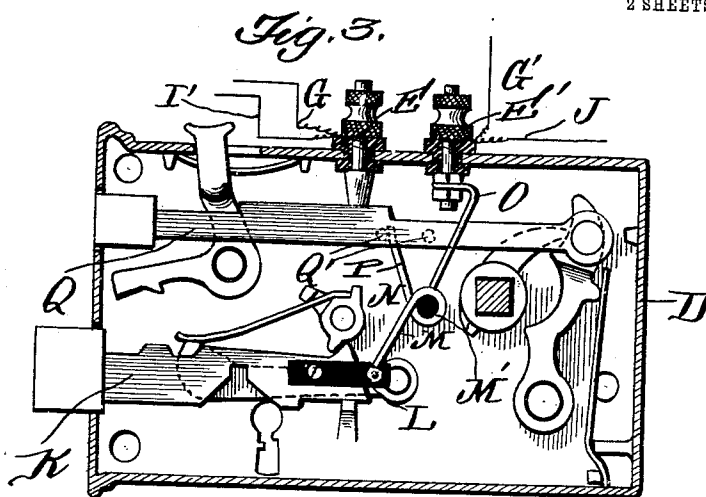
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UNITED STATES PATENT OFFICE.

ARNOLD VERHOEVEN, OF MARIANNA, ARKANSAS.

BURGLAR-ALARM.

932,358.

Specification of Letters Patent.

Patented Aug. 24, 1909.

Application filed May 6, 1909. Serial No. 494,214.

To all whom it may concern:

Be it known that I, ARNOLD VERHOEVEN, a citizen of the United States, residing at Marianna, in the county of Lee and State of Arkansas, 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in burglar alarm apparatus and comprises means connected with an ordinary door lock so arranged that, in the event of a person turning the knob while the door is locked, a signal will be sounded.

The invention comprises various details of construction, combinations and arrangements of parts which will be hereinafter fully described and then specifically defined in the appended claims.

I illustrate my invention in the accompanying drawings, in which:—

Figure 1 is a diagrammatic view showing an electric bell and battery in circuit with a lock. Fig. 2 is an enlarged detail view in elevation of the works of the lock showing the terminals and the means for closing the circuit. Fig. 3 is a detail of the rear side of the knob-actuated latch showing the projections thereon and a contact wire intermediate the same, and Fig. 4 is a detail view showing the lock connected to the wires of a telephone.

Reference now being had to the details of the drawings by letter, A designates an electric bell, B a battery and C a wire connecting the battery with the bell and which may be located at any suitable place.

D designates the casing of a lock of the usual construction, and E and E' designate two terminals mounted upon said casing and G is a wire connecting one of said terminals with the bell and the other wire G' connects the terminal E' with the battery. A push button, designated by letter H, is mounted upon the door I and has a wire J connecting one terminal thereof with the terminal E' while another wire I' connects the other terminal of the push button with the terminal E. Mounted within said lock casing is the usual lock bolt K and fastened to said bolt is

a strip L of non-electric conductive material and fastened to said strip L is one end of the wire M which is turned into a coil M' and pivotally mounted upon an insulated pin N carried by the wall of the casing. A wire O is connected to said coil and extends to and is connected to the terminal E' and one end P of the wire M is free and is adapted, as the coil M' turns upon its pivot, to be moved into such position that, when the knob-actuated latch Q is moved in one direction or another, said end P will contact with one projection or another Q' upon the latch Q for the purpose of closing a circuit and causing an alarm to be sounded. The terminal E is normally in contact with the latch Q, thereby completing the circuit when the free end P is in contact with said latch as the knob is turned in one direction or the other.

In Fig. 4 of the drawings, I have shown the alarm apparatus applied to a telephone whereby, in the event of any one turning the knob while the door is locked, a signal may be announced at the telephone office and in said modification the two wires S and T are connected, the former with the terminal R and the latter with the batteries R' which in turn are connected through the wire R² with the terminal R³.

In operation, when the bolt of the lock is turned by means of a key, the wire M, which is connected to the insulated strip fastened to said bolt, will cause said wire to tilt so that the free end P will be thrown between the projections Q' upon the latch Q so that, in the event of the knob being turned in one direction or the other for the purpose of moving said latch longitudinally, one projection or another Q' will contact with the end P and close the circuit and cause an alarm to be sounded either at the bell A or at the telephone headquarters through the connections with the telephone described. When the bolt of the lock is thrown back in an unlocked position, the wire M will tilt upon its pivot and the free end P will be thrown from between the projections Q', thus allowing the knob-actuated latch to be moved freely without sounding the alarm.

By the provision of the push button, the alarm bell may be utilized in the regular way when the door is unlocked.

What I claim to be new is:—

1. A burglar alarm comprising a lock casing, a bolt mounted therein, a conductor

wire mounted within the casing and having a resilient arm connected with suitable insulation to said bolt, a terminal to which said conductor is connected, an integral finger projecting from said conductor, a knob-actuated latch mounted within the casing, a terminal electrically connected to said latch, a bell and battery with connections between the same and said terminals, said finger being adapted to be moved by the bolt when thrown into a locked position, into the path of the latch.

2. A burglar alarm comprising a lock casing, a bolt mounted therein, a conductor wire mounted within the casing and having a resilient arm connected with suitable insulation to said bolt, a terminal to which said conductor is connected, an integral finger projecting from said conductor, a knob-actuated latch mounted within the casing, projections spaced apart upon said latch, a terminal electrically connected with the latch, a bell and battery with connections between the same and said terminal, said finger being adapted to be positioned between said projections when the bolt is in a locked position thus causing the circuit to be closed as one or the other of said projections contacts with said finger as the latch is moved in one direction or the other.

3. A burglar alarm comprising a lock casing, a bolt mounted therein, a conductor wire bent to form a coil, an insulating pin carried by the casing and passing through said coil, one end of said wire being connected to said bolt and insulated therefrom, a terminal to which the other end of the conductor is fastened, a finger projecting from said

wire, a knob-actuated latch, a terminal connected therewith, a battery and electrical connections between the same and said terminals, projections upon said latch spaced apart and between which said finger is adapted to be positioned when said bolt is thrown to a locked position thus causing the circuit to be closed as one or the other of said projections contacts with said finger as the latch is moved in one direction or the other.

4. A burglar alarm comprising a lock casing, a bolt mounted therein, a conductor wire bent to form a coil, an insulating pin carried by the casing and passing through said coil, an insulation strip fastened to the inner end of said bolt and to which strip one end of said conductor is fastened, a terminal to which the other end of the conductor wire is connected, a longitudinally movable knob-actuated latch mounted within the casing and provided with laterally projecting pins spaced apart, a terminal in contact with said latch, a battery and connections between the same and said terminals, a finger projecting from said conductor and adapted to be moved between said pins upon the latch when the bolt is thrown to a locked position thus causing the circuit to be closed as one or the other of said projections contacts with said finger as the latch is moved in one direction or the other.

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

ARNOLD VERHOEVEN.

Witnesses:

W. P. HARRIS,
T. B. SMITH.