

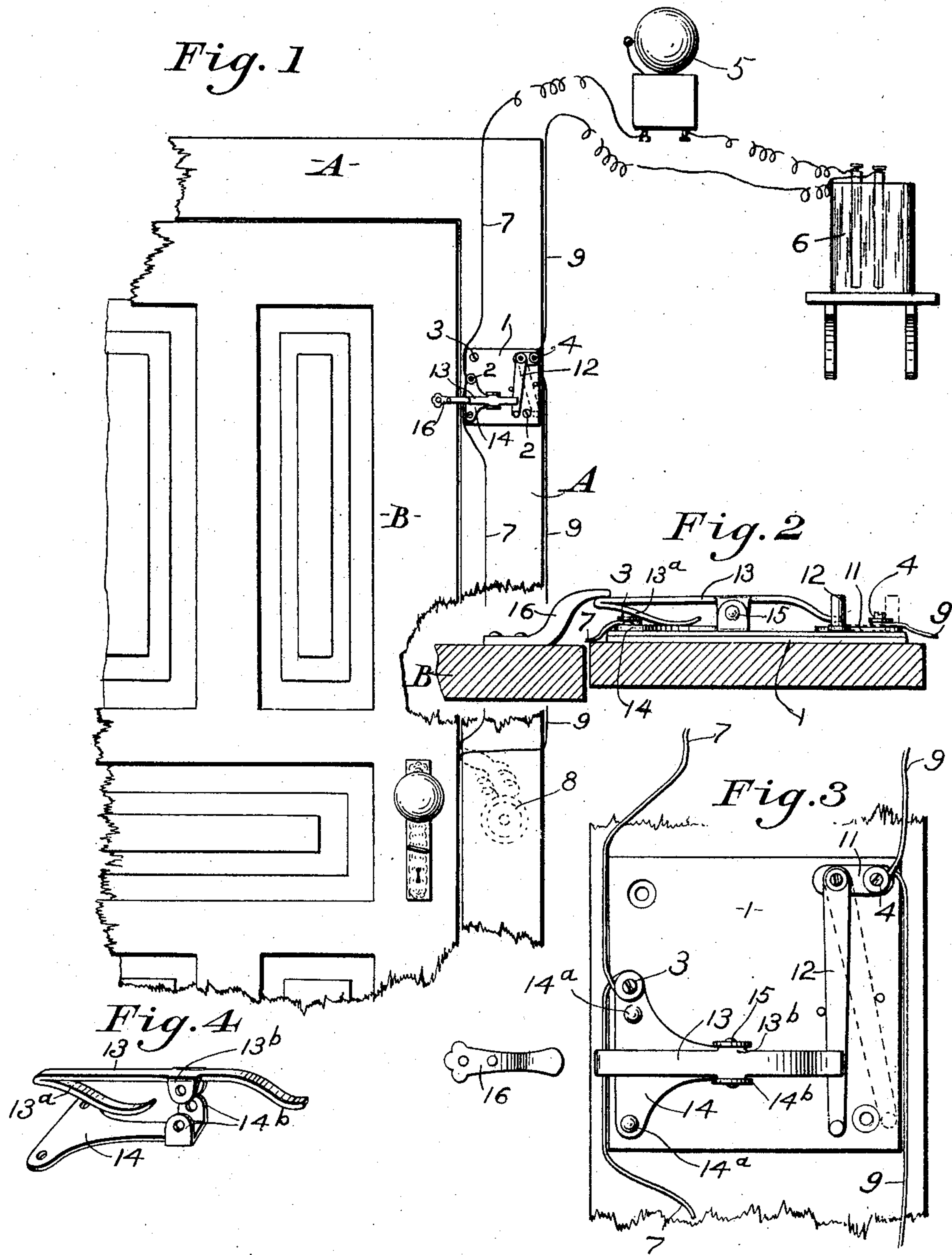
(No. Model.)

P. UNGER.

CONTACT DEVICE FOR ELECTRIC BURGLAR ALARMS.

No. 567,176.

Patented Sept. 8, 1896.



Witnesses:

J. J. Klossowski  
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Inventor—

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# UNITED STATES PATENT OFFICE.

PAUL UNGER, OF LEMONT, ILLINOIS.

## CONTACT DEVICE FOR ELECTRIC BURGLAR-ALARMS.

SPECIFICATION forming part of Letters Patent No. 567,176, dated September 8, 1896.

Application filed June 22, 1896. Serial No. 596,400. (No model.)

*To all whom it may concern:*

Be it known that I, PAUL UNGER, a citizen of the United States, residing at Lemont, in the county of Cook and State of Illinois, have  
5 invented certain new and useful Improvements in Contact Devices for Electric Burglar-Alarms, of which the following is a specification.

Heretofore the contact device and its connections for electric burglar-alarms have comprised various parts expensive to manufacture and easily gotten out of order, and therefore not adapted for general use upon the numerous doors and windows of ordinary  
15 buildings.

The object of my invention is to provide a simple, inexpensive, and reliable contact device which may be used in connection with an electric burglar-alarm to be attached to a  
20 door or window, and may also be conveniently connected both with a door and electric bell-pull switch and burglar-alarm.

The improvement consists in certain constructions and combinations of parts hereinafter described, which may be mostly stamped up of sheet metal instead of cast, and may be extremely simple in construction, certain in operation, and may be thus manufactured at very small cost.

30 In the accompanying drawings, which illustrate my invention, Figure 1 is an elevation of a portion of a door and door-frame with the contact device attached and connected in an alarm system, battery, and bell-pull; Fig.  
35 2, a horizontal section through the edge of the door and door-frame with the contact device shown in elevation upon an enlarged scale; Fig. 3, a plan view of the contact device as shown in Fig. 2; Fig. 4, a perspective  
40 view of the contact spring-lever and its supporting-plate.

The device consists of an insulating base-plate 1, made of hard rubber, vulcanite, or other suitable insulating material, adapted  
45 to be fastened to the door-frame A by wood-screws 2 of binding-posts 3 4, which pass through the said insulating base-plate. The line binding-post 3 is connected in circuit with an electric alarm-bell 5 and battery 6  
50 by a conducting-wire 7, and also with one of the contact-points of a bell-pull 8 of any preferred construction. The other contact-point

of the bell-pull 8 is connected by a conducting-wire 9 with the switch-lever binding-post 4, and is connected by the conducting-wire 9  
55 with the battery and with a pivot-strip 11, upon which the switch-lever 12 is swung to connect the burglar-alarm in or out of circuit with the electric alarm-bell. This is accomplished by means of a contact spring-lever 13,  
60 of novel construction, pivoted or hinged upon a supporting-plate 14, stamped out of sheet conducting-metal, which is attached by rivets 14<sup>a</sup> to the insulating base-plate 1, and provided with upturned lugs 14<sup>b</sup> to receive the  
65 pivot-pin 15 of the contact spring-lever. The contact spring-lever 13 is also made whole of sheet metal with a spring extension 13<sup>a</sup> at its operating end, turned under to rest upon the supporting-plate 14, and normally hold the  
70 opposite or contact end of said lever in engagement with the free end of the switch-lever 12 when the latter is placed in position beneath it. The contact spring-lever 13 also has lugs 13<sup>b</sup> to correspond with the lugs 14<sup>b</sup>  
75 of the base and receive the pivot-pin 15 in a simple and secure manner. An abutment-plate 16 is fastened to the edge of the door B, and overlies the operating spring end of the lever 13 in such manner that said lever will  
80 be pressed down and the contact end thereof separated from the switch-lever 12 when the door is closed, and when the door is opened the spring-actuated end of said lever will press down the contact end thereof to bear upon  
85 the said switch-lever and close the circuit between the contact device binding-posts 3 4 and alarm-bell circuit to ring the bell. When, however, the burglar-alarm is to be cut out, leaving the pull-bell in circuit with the alarm-  
90 bell, the switch-lever 12 is moved out of contact with the lever 13 and the circuit for the burglar-alarm is broken. Each metal piece of the contact device described may be cheaply  
95 stamped out of metal plates, thus reducing the number of parts and obviating the employment of separate screws, springs, and castings, which must be fitted together by hand-work at greatly-increased cost of manufacture.

I claim as my invention and desire to secure by Letters Patent—

1. A contact for burglar-alarms, comprising an insulating-plate, binding-screws, a base-

plate struck up from sheet metal with pivot-lugs secured thereto and a contact-lever also made of sheet metal having its operating end bent under to provide a spring connection integral and adapted to connect the binding-screws of an alarm-circuit, substantially as described.

2. A contact for burglar-alarms, comprising an insulating-plate, binding-screws, a base-plate struck up from sheet metal with pivot-lugs secured thereto, a contact-lever having a spring-actuated arm, a switch-lever adapt-

ed to connect one of said binding-screws with the said spring-lever, and a bell-pull circuit connecting the line binding-screw with the binding-screw at the free end of the switch-lever, substantially as described. 15

In testimony that I claim the foregoing as my invention I have signed my name in the presence of two subscribing witnesses.

PAUL UNGER.

Witnesses:

FRANK W. WELCH,  
B. KRUEPER.