L. H. BERG.

BURGLAR ALARM DEVICE.

APPLICATION FILED AUG. 16, 1913.

1,112,592. Patented Oct. 6, 1914.

Fig. 1.

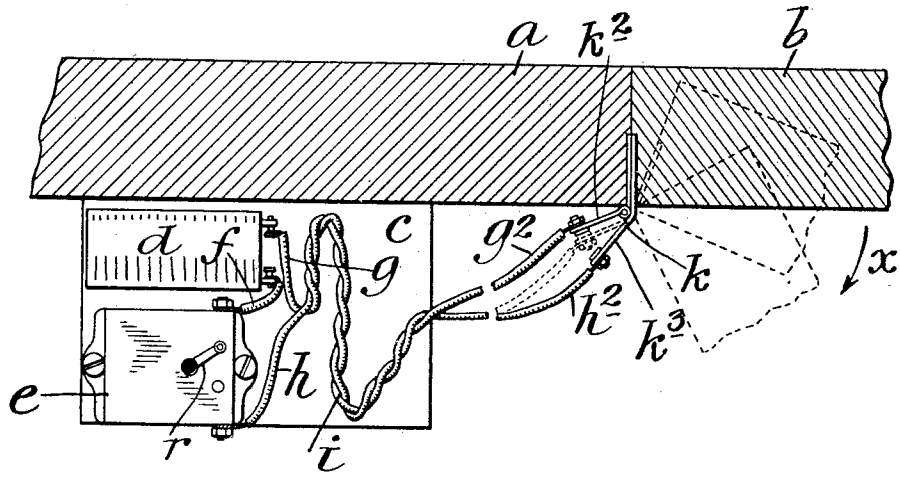


Fig. 2.

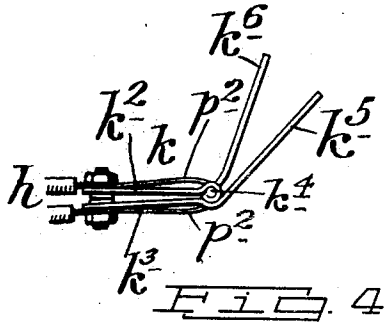


Fig. 3.

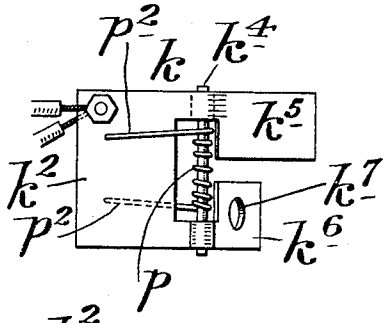
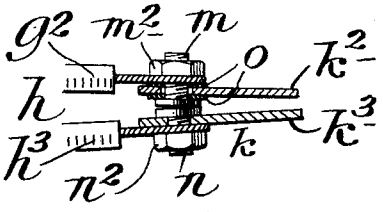


Fig. 4.



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

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BURGLAR-ALARM DEVICE.

1,112,592. Specification of Letters Patent. Patented Oct. 6, 1914.

Application filed August 16, 1913. Serial No. 785,082.

To all whom it may concern:

Be it known that I, LEWIS H. BERG, a citizen of the United States, and residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Burglar-Alarm Devices, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide an improved burglar alarm device which may be conveniently used in connection with doors, or window sashes, and which on the opening of a door or window sash will operate automatically, and with this and other objects in view the invention consists in a device of the class specified, constructed as hereinafter described and claimed.

In the accompanying drawing, I have shown my improvement applied to a door, and the invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:—

Figure 1 is a sectional view of a part of a door frame and a part of a door and showing the method of using my improvement in connection therewith; Fig. 2 a side view of an electric circuit making and breaking device which I employ; Fig. 3 a front view thereof; and, Fig. 4 a sectional view of a part of said circuit making and breaking device and on an enlarged scale.

In the drawing forming part of this invention, I have shown at a a part of a door frame and at b a part of a door hinged to said frame and adapted to open in the direction of the arrow x, and in the practice of my invention, I provide a plate or board c on which is mounted a battery d of any preferred form and an ordinary electric buzzer e, and the battery d and the buzzer e are connected by a circuit wire f and other circuit wires g and h are connected respectively with the battery d and buzzer e in the usual manner, and as will be understood by all those familiar with this class of devices.

The circuit wires g and h are preferably twisted together to form a single rope or cable i of any desired length, and the end portions g^2 and h^2 of the circuit wires g and h are connected with my improved circuit making and breaking device k constructed as shown in Figs. 2, 3 and 4.

The circuit making and breaking device k involves two flat jaw members k^2 and k^3 mounted on a pintle k^4 in the manner of the plates of a hinge, and the jaw members k^2 and k^3 are provided respectively with projecting shank and handle members k^5 and k^6 which project from said pintle in diverging lines or planes and preferably in an angle to said jaw members, and one of said shank and handle members is preferably provided with a hole or aperture k^7 by means of which the circuit making and breaking device may be suspended from a hook, nail or other support, if desired. The jaw members k^2 and k^3 are also provided with binding posts m and n consisting of screws which are passed outwardly therethrough and provided at their outer ends with nuts m^2 and n^2 respectively, and the binding post m is insulated from the corresponding jaw, as shown at o, and the ends g^2 and h^3 of the circuit wires g and h are connected with said binding posts as shown.

A spring p is wound on the pintle k^4 and provided with projecting spring fingers p^2 which bear on the outer sides of the jaws k^2 and k^3 and normally hold them, when the circuit making and breaking device is not in use, in contact, as shown in Figs. 2 and 4, and in order to break the circuit all that is necessary is to press the shank and handle members k^5 and k^6 together, or into the same plane, which operation will separate the jaws k^2 and k^3 as shown in Fig. 1, in which figure the circuit making and breaking device is shown in use.

In the use of this device the plate or board c with the battery d and buzzer e may be connected with a door frame adjacent to the door in any desired manner, or may be placed at any point and supported in any way, and the shank and handle members k^5 and k^6 of the circuit making and breaking device are passed between the door and the door frame, the door being open or partially open for this purpose, after which the door is closed and secured in the usual manner. This operation of closing and securing a door separates the jaws k^2 and k^3 and breaks the circuit as shown in Fig. 1, said circuit being normally closed, and if an attempt be

made to open the door and said door be partially open the circuit making and breaking device will drop out and the jaws k^2 and k^3 will be forced together by the spring fingers p^2, the circuit will be completed and the buzzer or alarm device will be operated.

The buzzer e is provided, in practice, with a hand-operated switch r by which the circuit may be completed or broken, whenever desired, and when desired the circuit wires g and h may be folded backwardly on the plate or board c and the circuit making and breaking device h laid thereon, and the entire device or apparatus may be placed in a small box and conveniently carried in a handbag or other receptacle.

Although I have shown and described the battery and buzzer as connected with the plate or board c it will be apparent that this is not necessary as the entire device or apparatus may be placed in a small box, of which the plate or board c forms the bottom, and other changes in and modifications of the construction herein described may be made, within the scope of the appended claim, without departing from the spirit of my invention or sacrificing its advantages.

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

In an apparatus of the class described, an electric circuit making and breaking device comprising spring-operated jaws hinged together and normally held in contact and provided with diverging thin flat shanks, and electric circuit wires connected with said jaws, and the spring by which the jaws are operated being wound on the pintle pin of the hinge by which said jaws are connected and being provided with projecting portions which bear on the backs of said jaws.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 9th day of August 1913.

LEWIS H. BERG.

Witnesses:
C. MULREANY,
H. G. THOMPSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."