

R. C. JONES.
ELECTRIC BURGLAR ALARM DEVICE.
APPLICATION FILED MAY 13, 1912.

1,052,724.

Patented Feb. 11, 1913.

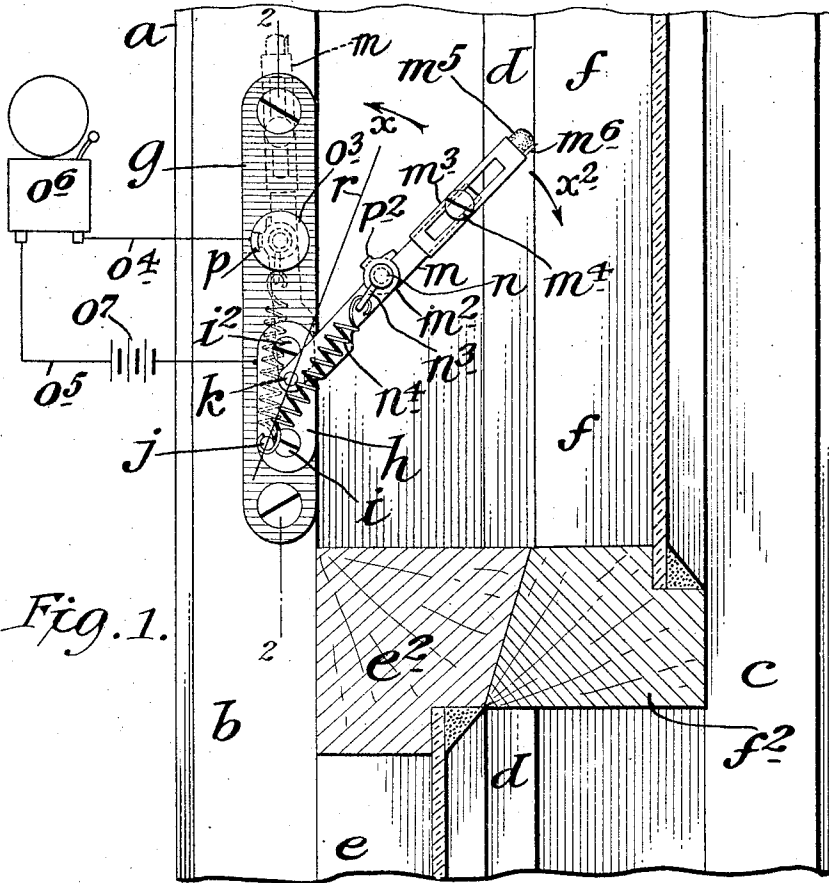


Fig. 1.

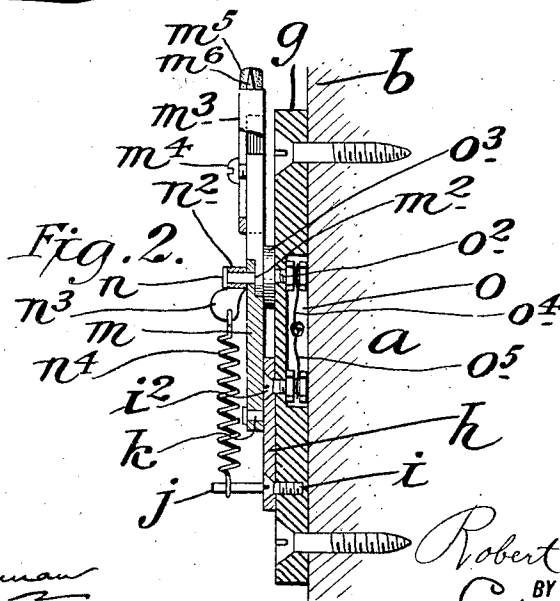


Fig. 2.

WITNESSES

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ELECTRIC BURGLAR-ALARM DEVICE.

1,052,724.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ROBERT C. JONES, a citizen of the United States, and residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Electric 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.

This invention relates to alarm devices, and the object thereof is to provide an improved device of this class designed particularly for use in connection with windows and which is simple in construction, efficient in operation and comparatively inexpensive.

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 an inside sectional view of one side of a window provided with my improved burglar alarm device, and Fig. 2 a section on the line 2—2 of Fig. 1, with the arm of the device in the position shown in dotted lines in said figure.

In the drawing forming part of this specification I have shown at *a* one side of a window frame to which is secured an inner molding strip *b* an outer strip *c* and a central bead or strip *d*. It will be understood that both sides of the window frame are similarly provided and this construction forms two vertical spaces in which the inner sash *e* and the outer sash *f* are vertically movable, and said sashes are provided with the usual top and bottom rails *e*² and *f*².

In the practice of my invention I secure to the front molding strip *b* an oblong plate *g* composed of insulating material on the bottom part of which is secured a metal plate *h*, this connection being made by means of screws *i* and *i*², and the plate *h* is provided with a post *j*, and pivoted to the plate *h* at *k* is an arm *m* composed of two parts connected at *m*² by an elbow joint, and the outer end portion of said arm is composed of separate parts one of which is longitudinally adjustable on the other, these parts being connected by a set screw *m*⁴, and the end portion of the adjustable part is provided with a rubber buffer *m*⁵ and a projection or tooth *m*⁶.

Mounted on the pivot pin *n* which connects the separate parts of the arm *m* is a collar *n*² having a downwardly directed finger *n*³ with which is connected a spiral spring *n*⁴ which is always under tension and which is connected with the post *j*.

The plate *g* is provided centrally of the back thereof with a recess or chamber *o* into which the screw *i*² passes, and another screw *o*² is passed inwardly through said plate and is provided with a large circular head *o*³, and the screw *i*² and the screw *o*² form binding posts with which are connected wires *o*⁴ and *o*⁵ which connect with an alarm device *o*⁶, and in the circuit thus formed is placed a battery *o*⁷.

The head *o*³ of the screw *o*² is provided with a stop *p* which limits the movement of the arm *m* in the direction of the arrow *x*, and the inner part of the arm *m* at the hinge *m*² thereof is provided with a contact projection *p*² adapted, when said arm is in the position shown in dotted lines in Fig. 1, to make contact with the stop *p*. The arm *m* is also composed of metal and it will be observed that the spring *n*⁴ serves to hold said arm in the position shown in full lines in Fig. 1, and also in the position shown in dotted lines, the line *r* serving to show the center line of the action of said spring, and the position of said arm, shown in full lines, in the operative position, while the position shown in dotted lines is the inoperative position, but in this last named position the circuit is closed through the alarm device *o*⁶ and said alarm device will be operated.

Suppose the parts to be in the position shown in Fig. 1. If now, the bottom sash *e* be raised the top rail thereof will strike the arm *m* and force said arm into the position shown in dotted lines in Fig. 1, and the alarm device *o*⁶ will be operated. If an attempt be made to lower the top sash the end *m*⁵ of the arm *m*, which bears on the front face of the side *f*³ of the top sash, will catch against said face and the front end portion of the arm *m* and will be forced downwardly in the direction of the arrow *x*², the arm bending at *m*² to permit of this operation, and in operation said arm will be forced back into the position shown in dotted lines and the alarm *o*⁶ will be operated. When the arm has once been forced into the position shown in dotted lines in Fig. 1, it must be forced back into the posi-

tion shown in full lines by hand, and when said arm has once been bent at m^2 it must be straightened by hand, if, the backward movement thereof when stopped by the post p is not sufficient to throw the end portion of said arm back into its normal position. The collar n^2 is free to rotate on the pin n , and it will be understood, that the alarm device o^a may be placed at any desired point or in any preferred position, and my invention is not limited to the various details of construction herein shown and described, nor to the shape or form of the various parts, and changes in and modifications of these features of the invention, may be made, within the scope of the appended claims, without departing from the spirit of my invention or sacrificing its advantages.

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

1. In an alarm apparatus of the class described, a plate having means whereby it may be secured to one side of a window frame, an arm pivoted to said plate and adapted to swing in a plane at right angles to the plane of the sashes when the plate is in place, a spiral spring connected with said plate and said arm and adapted to hold said arm in two different positions in one

of which it bears on the adjacent sash, an open electric circuit of which said arm forms a part and an electric alarm device placed in said circuit and forming a part thereof.

2. In an alarm apparatus of the class described, a plate having means whereby it may be secured to one side of a window frame, an arm pivoted to said plate and adapted to swing in a plane at right angles to the plane of the sashes when the plate is in place, a spiral spring connected with said plate and said arm and adapted to hold said arm in two different positions in one of which it bears on the adjacent sash, an open electric circuit of which said arm forms a part, an electric alarm device placed in said circuit and forming a part thereof, said arm being composed of two parts connected by an elbow joint and the outer end portion thereof being composed of separate parts one of which is adjustable.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 11th day of May 1912.

ROBERT C. JONES.

Witnesses:

C. MULREANY,
S. ANDREWS.