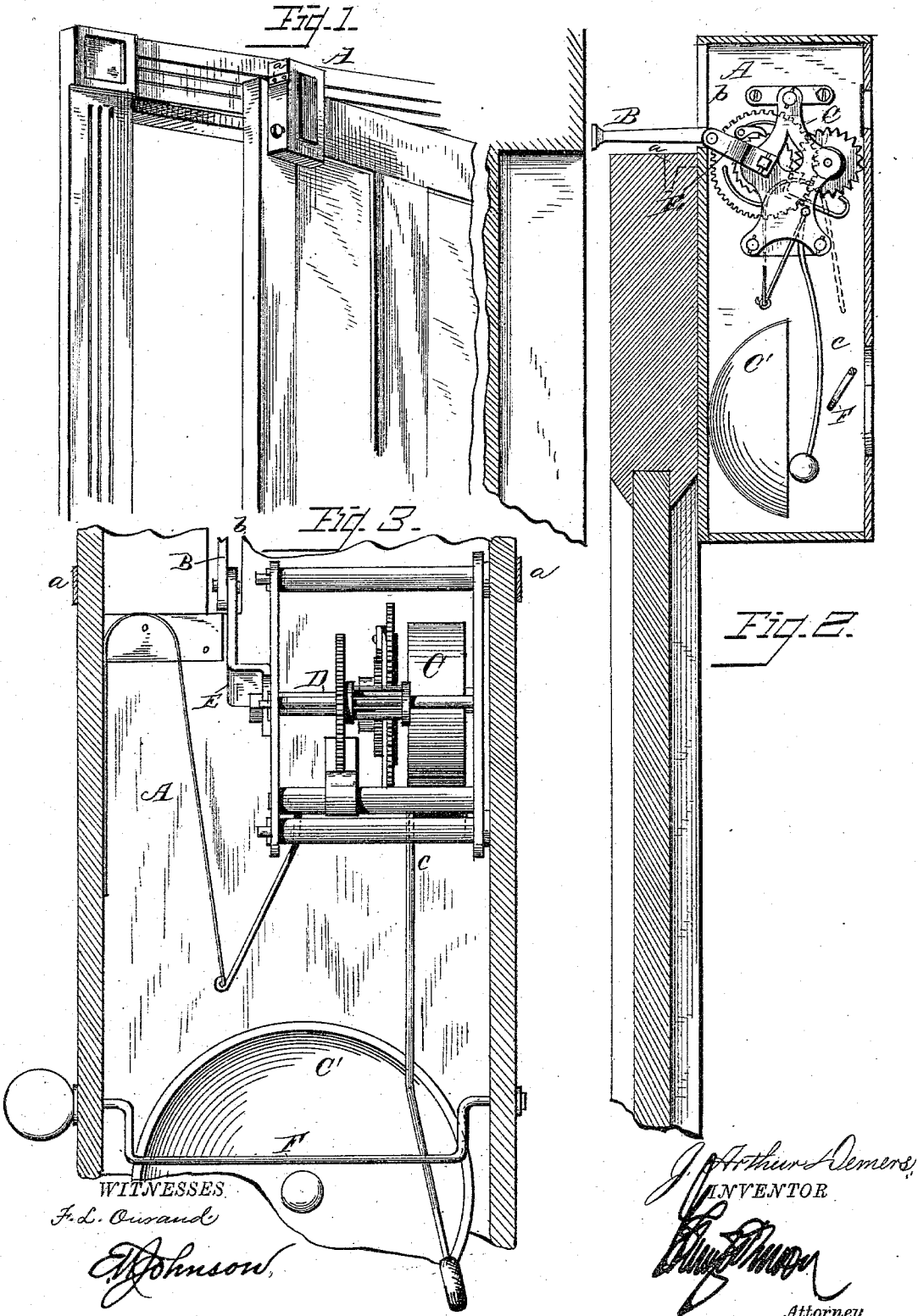


(Model.)

J. A. DEMERS.  
BURGLAR ALARM.

No. 295,366.

Patented Mar. 18, 1884.



WITNESSES  
J. L. Curran

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# UNITED STATES PATENT OFFICE.

J. ARTHUR DEMERS, OF GREAT FALLS, NEW HAMPSHIRE.

## BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 295,366, dated March 18, 1884.

Application filed October 18, 1883. (Model.)

*To all whom it may concern:*

Be it known that I, J. ARTHUR DEMERS, a citizen of the United States of America, residing at Great Falls, in the county of Stafford and State of New Hampshire, have invented certain new and useful Improvements in Alarms for Doors; 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 letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in alarms for doors, its object being to provide a means which can be readily attached to and detached from a door, and which will sound an alarm when the door is opened, said alarm being set when the door is closed; and my invention consists in an alarm which is incased within a box, which is provided with a spring-actuating means, which actuating means is wound or set by a lever attached to a dog, which lever comes in contact with the door-jamb when the door is closed, as will be hereinafter more fully set forth, and is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view, showing my improved attachment secured to a door. Fig. 2 is a vertical longitudinal section; and Fig. 3 is a front view, the case being shown in sections.

In the accompanying drawings, A represents a suitable box or case, which is provided with side pieces, *a a*, having hooks at their end, or other equivalent means, for attaching the same to a door in a manner so that the box may be readily detached from the same. This box is provided at its upper end with a slot, *b*, through which passes an arm, B, which abuts against the door-jamb when the door is closed, as will be hereinafter set forth. Within the box is secured a suitable spring mechanism, C, which is provided with a train of gearing and escapement, the shaft of

which escapement is provided with a hammer, *c*, which strikes against the bell *C'*, so as to sound an alarm.

The construction of the spring mechanism and hammer-actuating means is of the usual form, and is fully illustrated in the accompanying drawings.

To the shaft D, upon which is secured the actuating-spring, is attached a dog, E, said shaft D being located below the slot *b*, so that when the door is closed, as shown in Fig. 2, said dog will be in an inclined position, and the arm B will rest upon the lower portion of the slot *b*, so as to be in a horizontal position.

At a suitable point within the box I provide a crank-shaft, F, which is located above the bell-hammer *c*, by means of which, when the alarm is attached to a door, the crank-shaft can be turned, so as to bear upon the bell-hammer and render the same inoperative when it is desired not to sound an alarm.

The operation of my invention is as follows: When the box inclosing the alarm mechanism is attached to a door and the brake or crank-shaft F unset, the arm B will be thrown outward by the dog attached to the shaft which carries the mainspring, and when the door is closed the arm will strike against the jamb of the door and be pressed inwardly, and said arm will carry with it the dog E, so as to wind the spring; and as soon as the door is opened the spring, being free to act, will set the gearing in motion and sound an alarm.

Having thus described my invention, so that the same can be fully understood and made by those skilled in the art, I do not wish to limit myself to the precise construction herein shown, but reserve the right to modify or change the same within the scope and spirit of my invention; and

What I claim as new, and desire to secure by Letters Patent, is—

1. In an alarm for doors, a case provided with hooks, whereby it may be attached to a door, and provided with an alarm and spring-actuating means, said spring-actuating means being provided with a dog and arm, whereby

the spring is wound up when the arm is forced within the receptacle, substantially as shown, and for the purpose set forth.

2. In combination with the case A, having an opening or slot, *b*, and inclosing an alarm-sounding mechanism, the dog E, attached to the shaft of the spring, and provided at its end with an arm, B, the parts being organized and

combined substantially as shown, and for the purpose set forth. 10

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

J. ARTHUR DEMERS.

Witnesses:

WM. R. BURLEIGH,  
W. F. RUSSELL.