

No. 625,867.

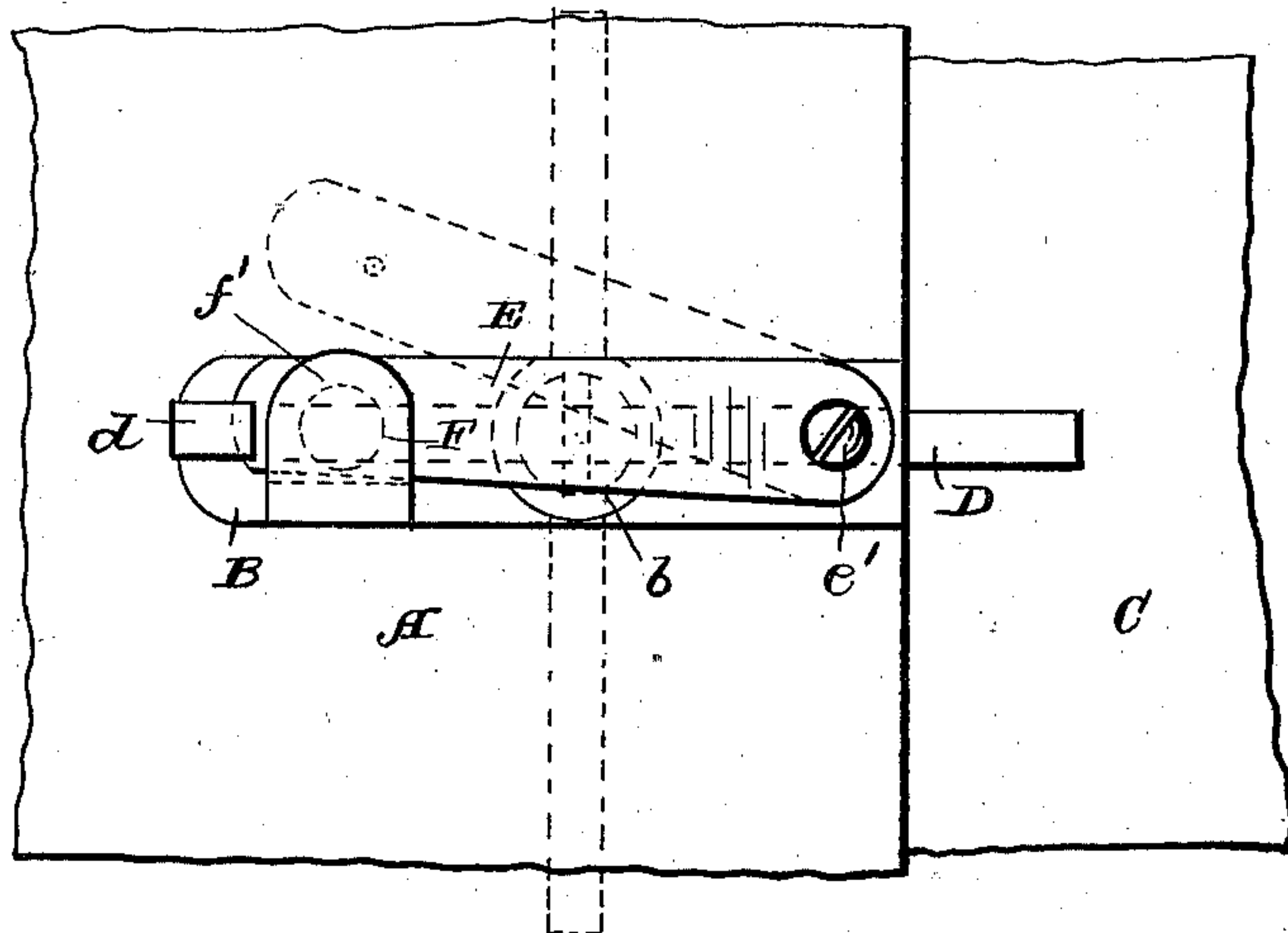
Patented May 30, 1899.

A. M. BENSON.
DOOR LOCKING BURGLAR ALARM.

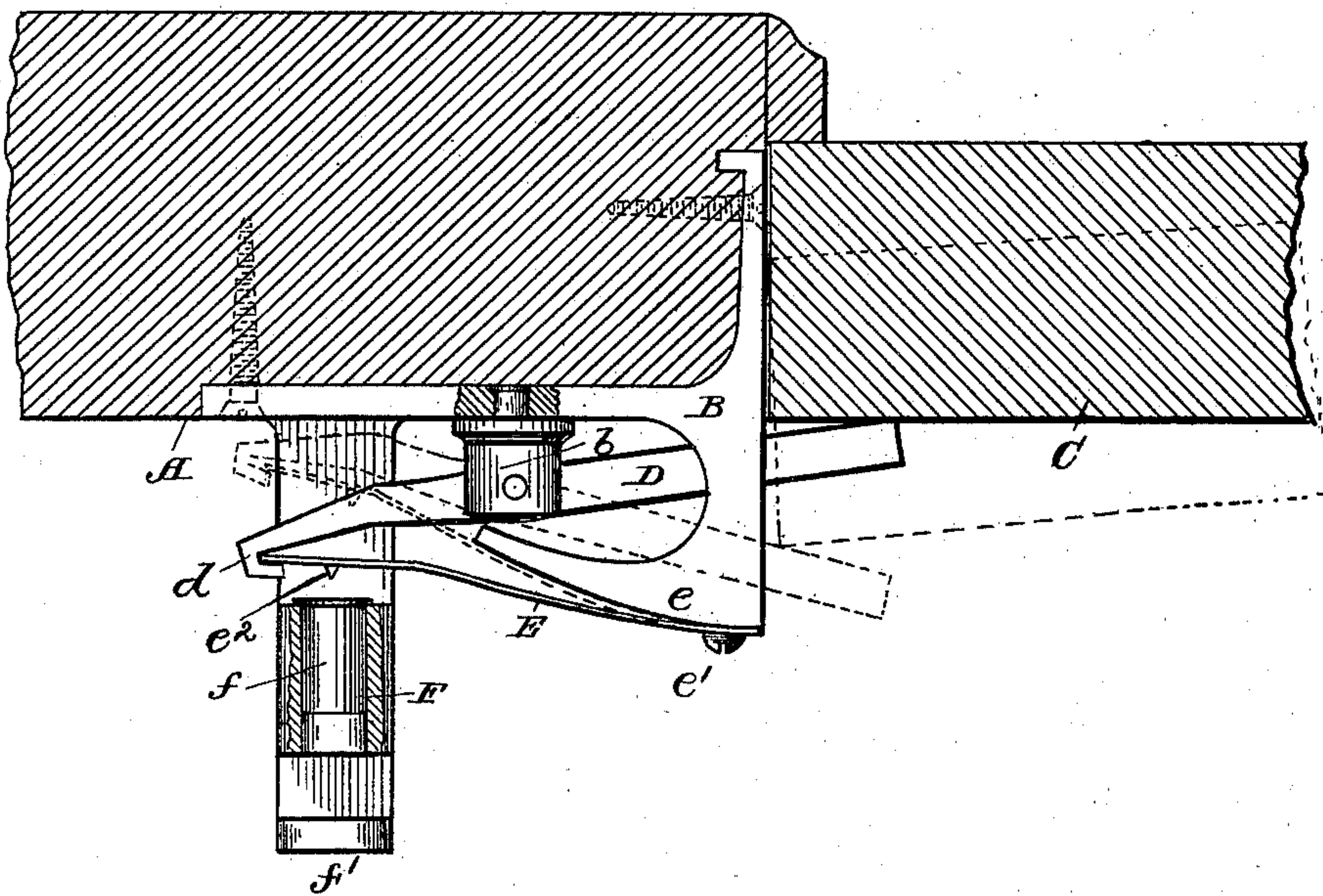
(Application filed May 23, 1898.)

(No Model.)

-FIG. I-



-FIG. II-



WITNESSES:

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DOOR-LOCKING BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 625,867, dated May 30, 1899.

Application filed May 23, 1898. Serial No. 681,413. (No model.)

To all whom it may concern:

Be it known that I, ARZA M. BENSON, a citizen of the United States, and a resident of Cleveland, county of Cuyahoga, and State of Ohio, have invented a new and useful Improvement in Door-Locking Burglar-Alarms, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

My invention has for its object a combined door or window lock and burglar-alarm.

The annexed drawings and the following description set forth in detail certain mechanism embodying the invention, such disclosed means constituting but one of various mechanical forms in which the principle of the invention may be used.

In said annexed drawings, Figure I is an elevational view of the alarm as secured to a door-casing. Fig. II is a horizontal sectional view through a door and door-casing, the alarm being shown in plan view.

A door-casing A is suitably cut away to permit the burglar-alarm B to be secured thereto by means of the usual screws, so as not to interfere with the opening of the door C. The alarm consists of a base, in which is pivoted the bifurcated lever-support *b*. Lever D is pivoted in the bifurcated portion of said support and is provided at its forward portion with the slotted end *d*, the rear portion of the lever extending, when in operative position, beyond the casing, so as to engage with the door C. A spring supporting portion *e* extends outwardly from the base of the alarm, and to this is movably secured the spring E, that pivots on the screw *e'*, that holds it in place. Said spring is provided near its free extremity with a lug *e²*, and the free extremity of the spring is adapted to slip into the slot formed in the extremity of lever D. A cartridge-support F is formed integral with the base of the alarm and has an opening in which cartridge *f* may be placed. Somewhat removed from the cartridge-opening is a wall *f'*, which is adapted to receive any discharge from the cartridge.

By locating the spring between the car-

tridge-support and the base and the lever between the spring and base a compact and neat arrangement of parts is secured.

The operation of the device is as follows: A cartridge is placed in the cartridge-opening, the lever D is swung around until its rear extremity crosses the path of the opening door, the free end of the spring is inserted in the slot of the lever, and the device is ready for use. If the door is forced open while the device is in operative position, the lever D is moved from the position shown in full lines in Fig. II to the position shown in dotted lines in Fig. II, and the spring is released from engagement in the slot, so that the lug *e²* is brought in violent contact with the cartridge and the cartridge is exploded, giving notice to the occupants that the door has been opened. When it is desired to leave the door unlocked, as during the daytime, or when it is desired to place a new cartridge in the cartridge-opening, lever D is turned from the position shown in full lines in the drawings to the position shown in dotted lines in Fig. I, and the spring is moved from the position shown in full lines in Fig. I to the position shown in dotted lines in Fig. I, thus giving easy access to the cartridge-opening and permitting the door to be freely opened or closed without engaging with said lever. This is accomplished by turning the lever-support on its pivot and turning the spring on the screw *e'*.

Other modes of applying the principle of my invention may be employed instead of the one explained, change being made as regards the mechanism herein disclosed, provided the means covered by any one of the following claims be employed.

I therefore particularly point out and distinctly claim as my invention—

1. The combination of a cartridge-support, a lever, a spring-support, a spring pivoted upon said spring-support, a lever pivoted upon a base, said spring-support secured to or integral with said base, said spring located between the cartridge-support and the base and said lever located between said spring and base, substantially as set forth.

2. The combination of a cartridge-support,

a lever, a spring-support, a spring pivoted
upon said spring-support, and a lever pivoted
upon a base, said spring-support secured to
or integral with said base, said spring located
5 between the cartridge-support and base, the
lever located between the spring and base and
formed with an end slot and adapted to en-

gage the end of the spring, substantially as
set forth.

Signed by me this 19th day of May, 1898.

A. M. BENSON.

Attest:

D. T. DAVIES,

J. C. TURNER.