(No Model.)

W. S. McCLINTOCK.

DETONATING BURGLAR ALARM.

No. 516,215. Patented Mar. 13, 1894.

Fig. 1.

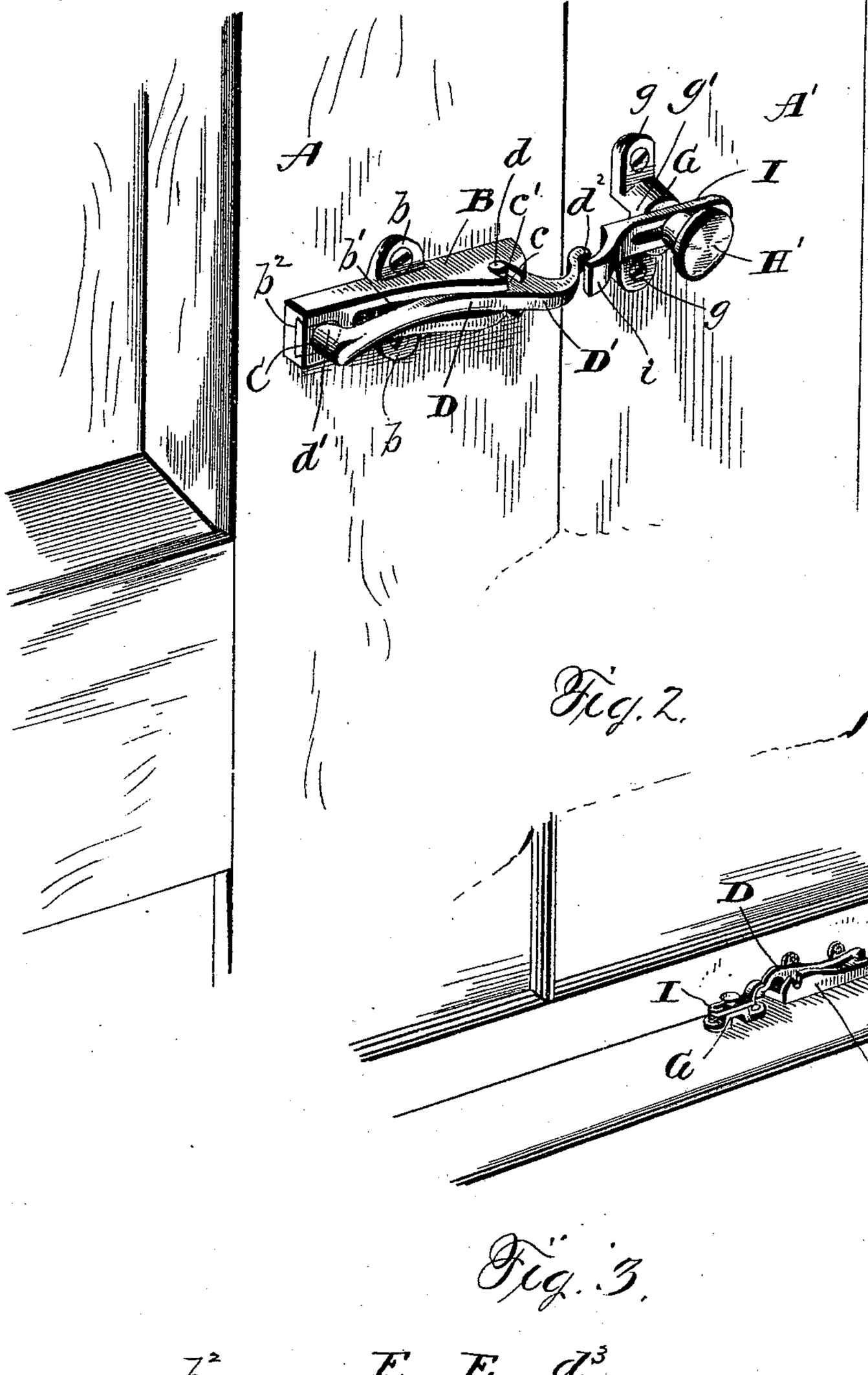
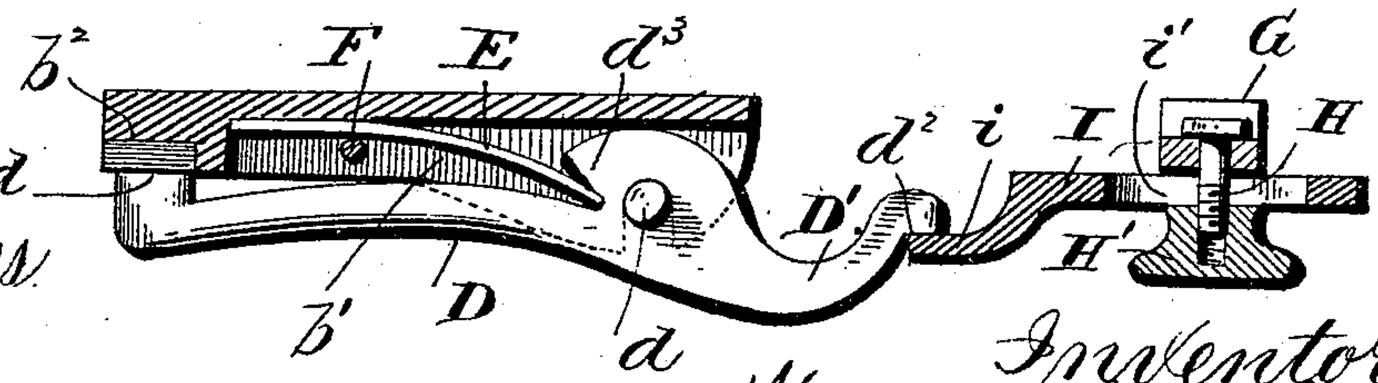


Fig. 2.

Fig. 3.



Witnesses.
C. J. Williamson.
A. L. Hough

Inventor
William S. McClintock
by Franklin H. Hough

THE NATIONAL LITHOGRAPHING COMPANY,
WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM S. McCLINTOCK, OF CAMDEN, NEW JERSEY.

DETONATING BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 516,215, dated March 13, 1894.

Application filed November 18, 1893. Serial No. 491,348. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM S. McCLINTOCK, a citizen of the United States, residing at Camden, in the county of Camden and State of New Jersey, have invented certain new and useful Improvements in Burglar-Alarms for Doors, &c.; and I do 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 the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in burglar alarms of that class designed to be applied to the door or window of a building in such a manner that the opening of a door or window to which it is applied will cause an explosion to occur and thus notify the occupant of the building and signify that burglars are effecting an entrance.

It has for its objects among others to provide a simple and cheap yet efficient device of this character which can be readily applied and which will be positive in its action. The lever is so arranged that the end thereof opposite to that which explodes the cartridge must be moved by the engaging part as the door or window is opened and a spring forces it against the cartridge with great force to explode the cartridge. The engaging means has provision for its adjustment to throw it out of operative contact or position when it is desired to leave the door or window free to be opened without sounding an alarm, as for instance during the day.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be particularly pointed out in the appended claim. The novelty in this instance resides in the peculiar combinations, and the construction, arrangement and adaptation of parts, all as more fully hereinafter described, shown in the drawings and then specified in the claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification and in which—

Figure 1 is a perspective view showing the application of my invention to a door. Fig. 2 is a like view showing its application to a window. Fig. 3 is a sectional view of the alarm mechanism and its engaging means.

Referring now to the details of the drawings in which like letters of reference indicate like parts, A designates a portion of the door and A′ the frame thereof.

B designates a casting or bracket having the ears or lugs *b* for the reception of the screws or other means employed for securing it to the door as seen in Fig. 1. This casting or bracket is recessed as seen at *b′* and at one end is provided with a depression or chamber b^2 to receive a cartridge C of any well known or approved kind suited for this purpose. Near the other end the bracket or casting is formed with the upwardly or outwardly extending lugs *c* which are provided with the open ended slots *c′* into which are removably seated the pins or projections *d* of the lever D which is formed at one end with a flattened portion *d′* over the recess or chamber in which the cartridge is to be seated and adapted to strike the same when the lever is operated as will soon appear. This lever is further formed or provided with the tail piece D′ which is curved and is formed with or terminates in the shoulder d^2 as seen. It is still further provided or formed with a lug d^3 in proximity to the projections or pins thereof as shown, and over this lug is engaged one end of the flat spring E the other end of which is held under the cross pin F which is held in the casting or bracket.

G is a bracket or plate having the lugs or ears *g* by which it is secured in position on the side of the frame as shown in Fig. 1. It is formed with an arched portion *g′* which is provided with an opening therein for the reception of the screw threaded bolt H having a thumb nut H′ as seen, and I is an arm one end of which is offset as seen at *i* and curved while the main portion of the arm is provided with a longitudinal slot *i′* through which the bolt passes.

In operation the bracket or casting B is secured to the door in the position shown and the bracket G is secured to the frame as shown with its arm adjusted so that as the door is opened the projecting portion thereof will be engaged by the end of the lever and riding

thereover will move the said end of the lever against the tension of the spring until the parts pass each other when the spring will cause the flattened end of the lever to be thrown with great force against the cartridge and cause the same to explode. When it is desired to allow the door to be opened without sounding an alarm the arm I may be adjusted so as to throw it out of the path of the projecting end of the lever and thus held by the thumb nut.

The improvement may be applied to a window in substantially the same way as to a door and the operation is substantially the same; such application is shown in Fig. 2. By the peculiar construction shown the device is positive in its action and great force is given to the lever so that it will never fail to explode the cartridge. It is simple, cheap of manufacture and not liable to get out of order.

What is claimed as new is—

In a burglar alarm of the character described, the combination with a door and its frame, of a casting having ears and recessed and with a chamber at one end and lugs *c'* at the other having open-ended slots, the lever having its axis seated in said slots, said lever having a flattened portion at one end and with a tail piece curved and terminating in a shoulder, a flat spring in the recess of the casting and acting on the lever and a bracket on the frame and formed with an arched portion, a slotted arm with curved offset, and a thumb screw working in the slot of the arm and in the bracket, all substantially as shown and described.

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

WILLIAM S. McCLINTOCK.

Witnesses:

CHARLES H. TUPFOEM, Jr.,

SAMUEL D. COX.