

(No Model.)

F. FENLEY.
BURGLAR ALARM.

No. 598,916.

Patented Feb. 15, 1898.

Fig. 1.

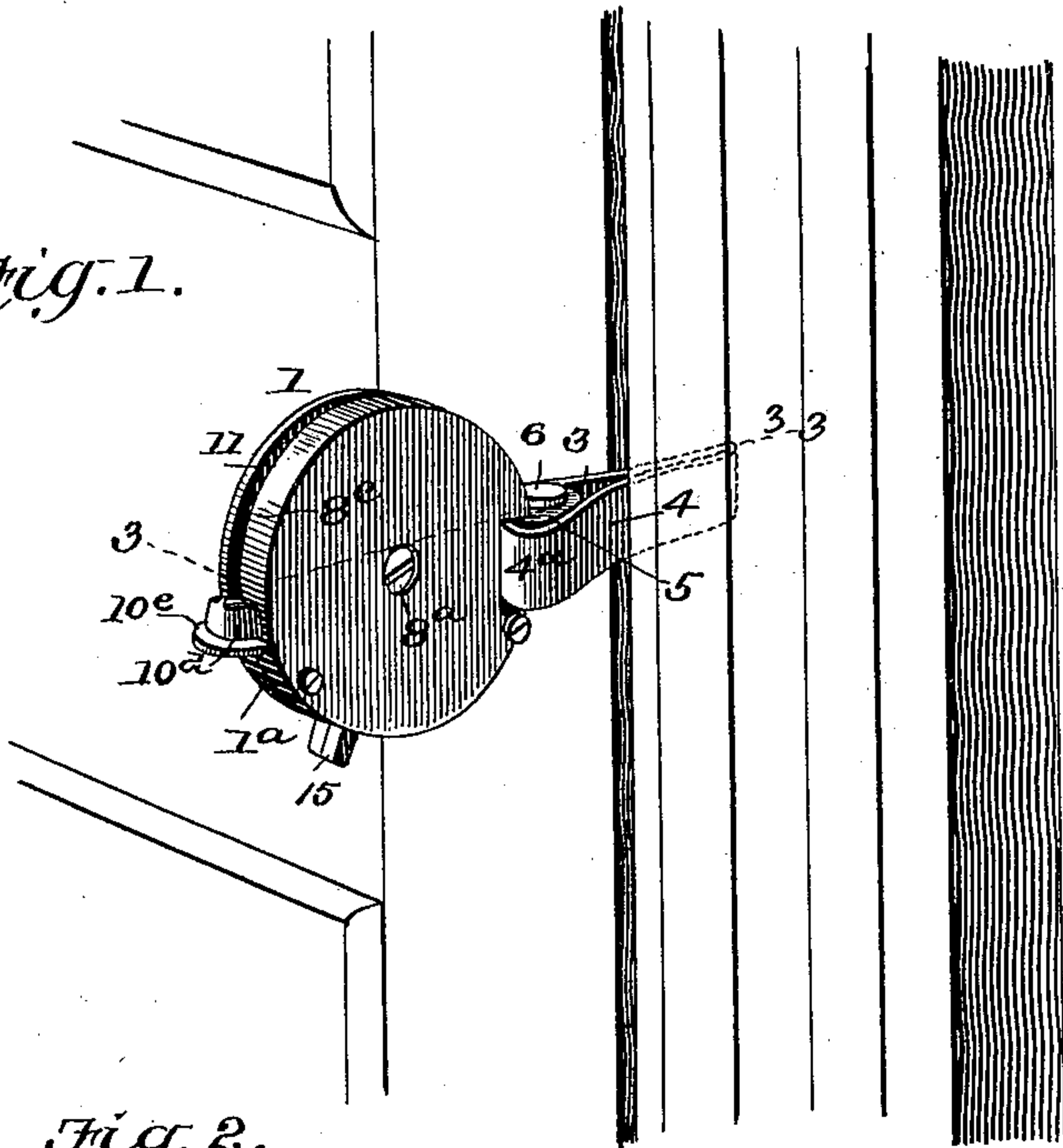


Fig. 2.

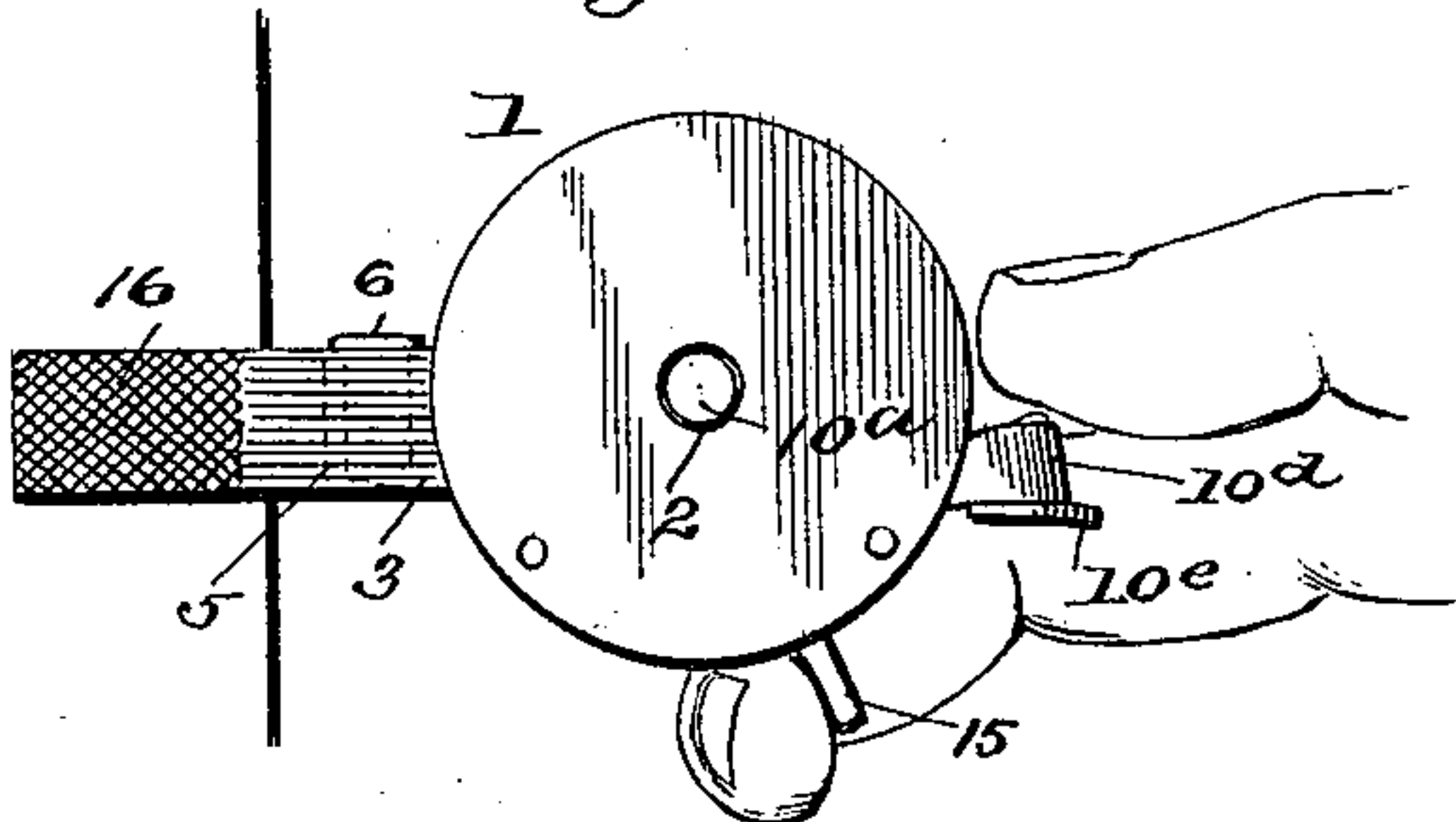


Fig. 3.

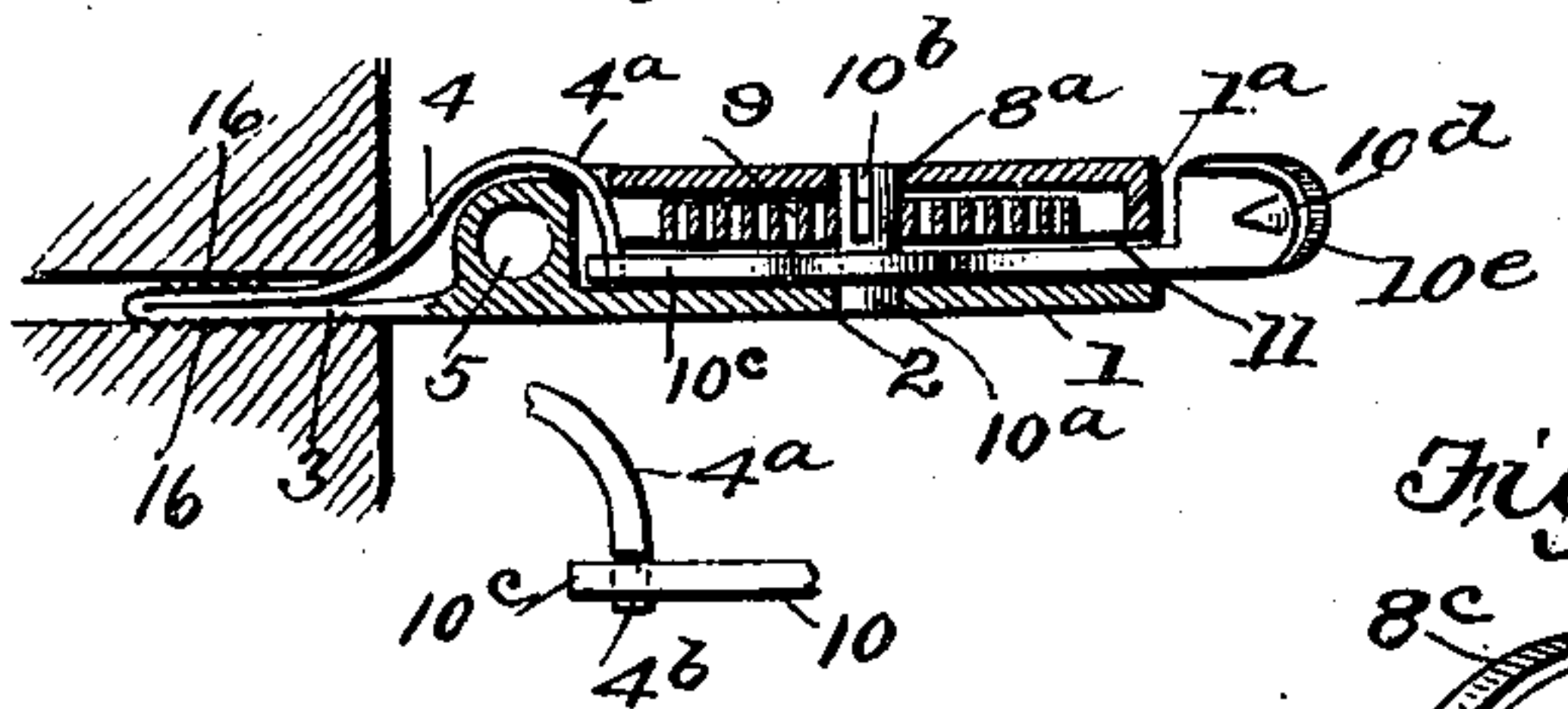


Fig. 4.

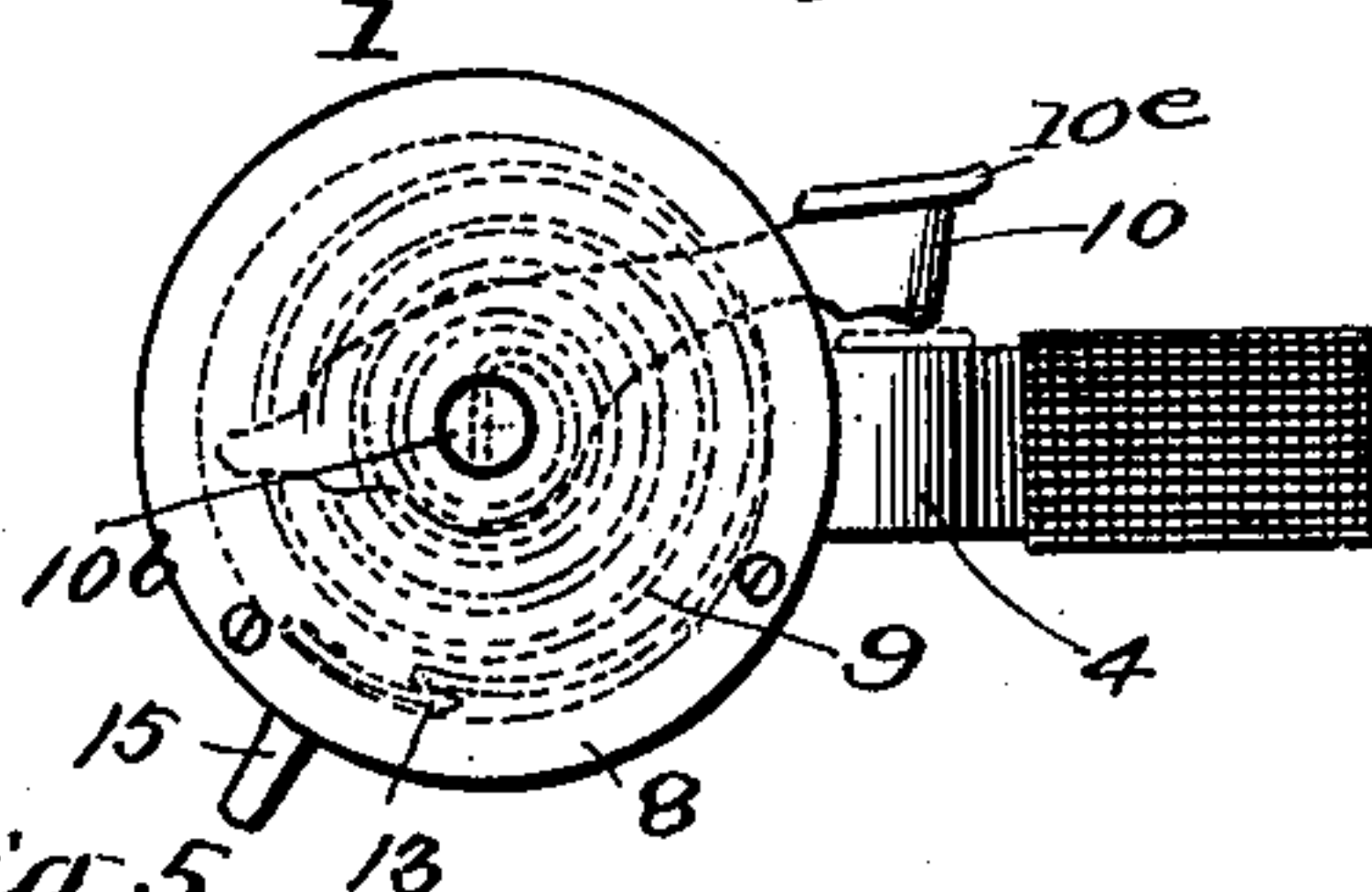


Fig. 5.

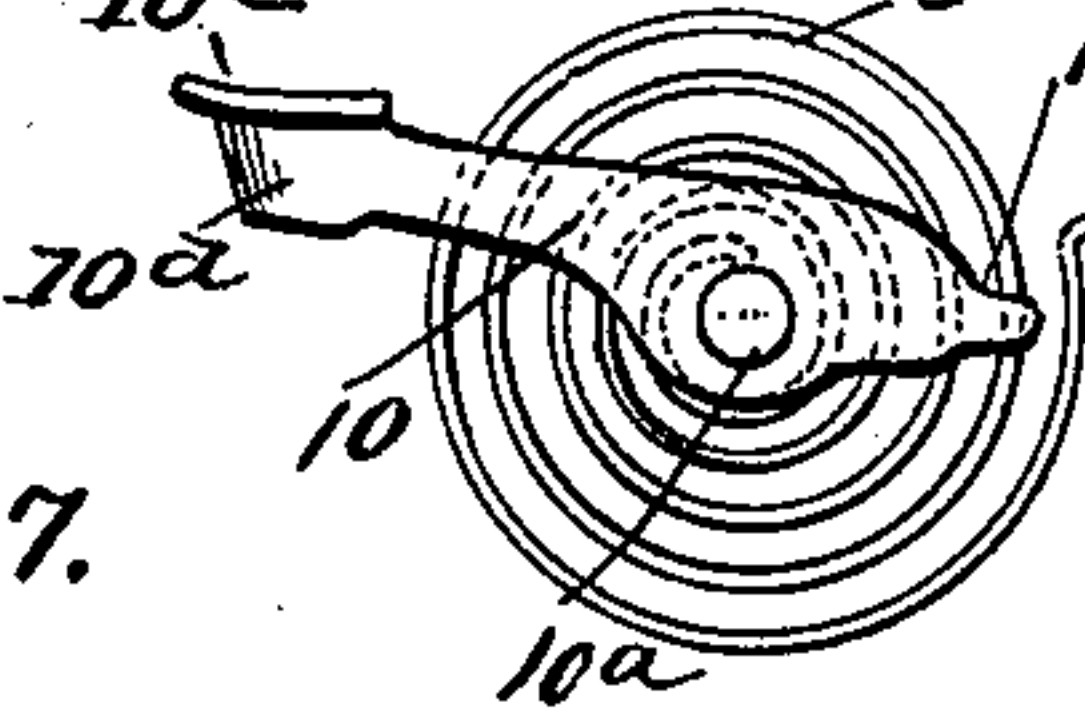


Fig. 6.

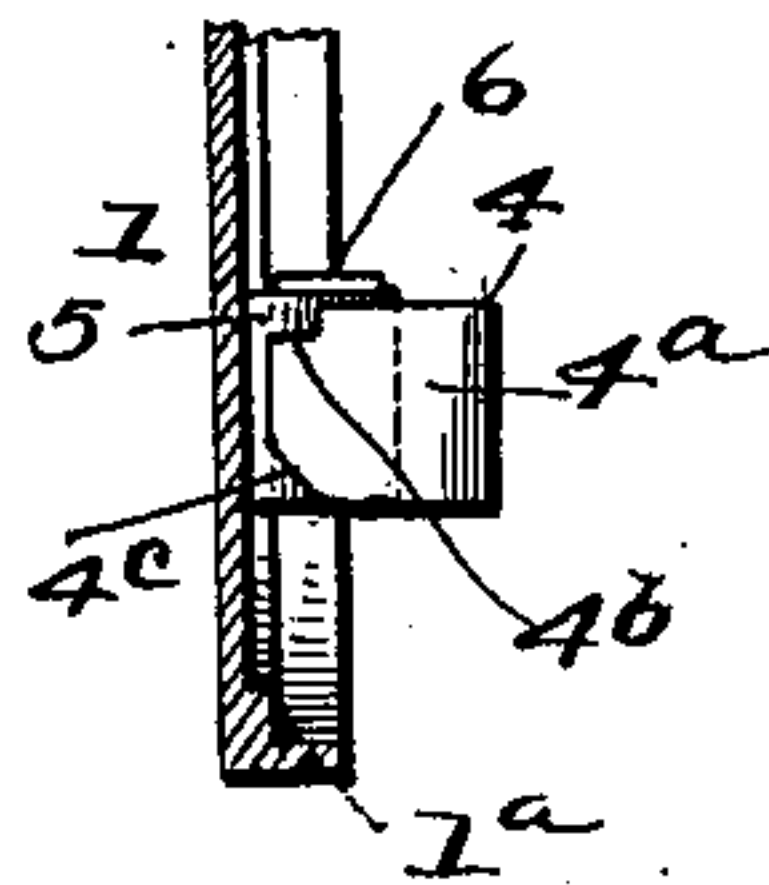
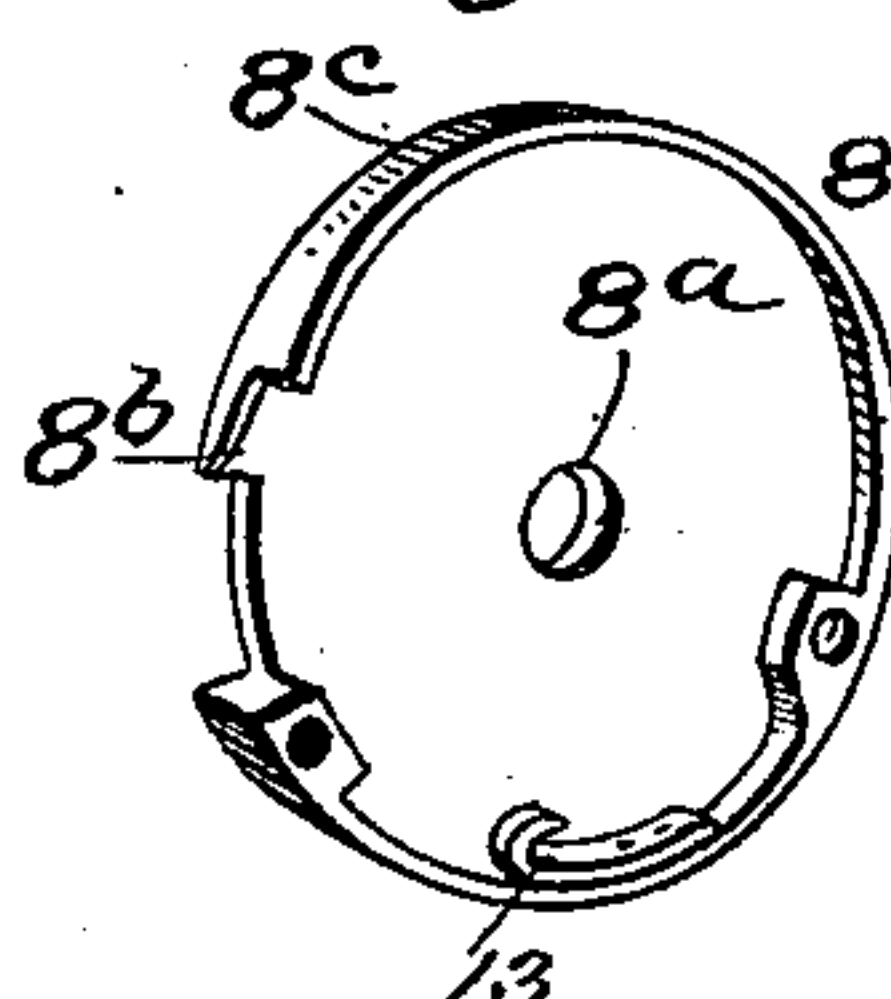


Fig. 7.



WITNESSES:

Jos. A. Ryan
M. S. Blondell

INVENTOR

Frank Fenley.

BY Munn & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

FRANK FENLEY, OF NEW ORLEANS, LOUISIANA, ASSIGNOR OF ONE-HALF
TO EMILIEN PERRIN, OF SAME PLACE.

BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 598,916, dated February 15, 1898.

Application filed April 22, 1897. Serial No. 633,348. (No model.)

To all whom it may concern:

Be it known that I, FRANK FENLEY, residing at New Orleans, in the parish of Orleans and the State of Louisiana, have invented a new and Improved Burglar-Alarm, of which the following is a specification.

This invention is in the nature of a portable alarm device adapted to be secured in a crevice between a door, transom, or window and its casing, having an explosive, and inserted in the door, window, or transom crevice in such a manner as to explode when such door, window, or transom is opened.

Primarily this invention has for its object to provide an alarm device of this character which can be readily carried in the pocket, quickly applied to a door or other crevice, and which will positively serve for its intended purposes.

Furthermore, this invention seeks to provide an alarm of this kind of a very simple and inexpensive nature having the several parts so arranged that they will not become easily broken when the device is released from the crevice between the door and the casing.

With other minor objects in view, which will hereinafter appear, the invention consists in a burglar-alarm embodying the peculiar combination and novel arrangement of parts, such as will be first described in detail, and then be specifically pointed out in the appended claims, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view illustrating my invention as applied for use. Fig. 2 is a view illustrating the manner in which the device is held to insert same in the door or window crevice. Fig. 3 is a horizontal section taken practically on the line 3 3 of Fig. 1. Fig. 4 is a side elevation illustrating the hammer in its firing position, the hammer-spring being shown in dotted lines. Fig. 5 is a detail view of the hammer and its operating-spring. Fig. 6 is a sectional view of the base portion having the combined crevice and hammer-holding clamp-spring, and Fig. 7 is a detail view of the cap-plate.

My improved alarm device comprises a circular body 1, provided with a central aperture 2 and a forwardly-extending spring-tang

3, which is bent back upon itself to form a spring-clamp member 4, the inner end 4^a of which is curved inward at an approximately right angle at a point in the rear of a cap-holding socket 5, secured to or formed integrally with the body 1, such socket being disposed at the inner end of the tang 3 and provided with a seat for the head of the blank cartridge 6, which is fitted in such socket when the device is adjusted for use.

The body 1 has a peripheral flange 1^a extending from the cartridge-socket about one-third the circumference of such body, which flange has seats to receive the screws which hold the circular cap-piece 8 thereon. The cap-piece has a central aperture 8^a and a cut-out portion 8^b at its front end for the passage of the end 4^a of the clamp member 4, such cap member also having a peripheral flange 8^c, whereby to form an internal space to receive the hammer-operating spring 9.

The hammer consists of a shank 10, having a stud-pintle 10^a, one end of which fits the aperture 2 in the body 1, while the other end is slotted, as at 10^b, and has its bearing in the aperture 8^a of the cap member. The rear end of the shank has a lock-lip 10^c, while the front end extends through the peripheral slot 11, formed between the cap and body members, and terminates in a head 10^d, having a finger-engaging flange 10^e, as shown.

The hammer is normally held to move toward its firing position by the volute spring 9, one end of which is secured in the slotted spindle end 10^b, while the other end engages a hook 13 on the cap member 8, as shown in dotted lines in Fig. 4.

By referring now to Figs. 3 and 6 it will be noticed the inner end of the member 4^a of the clamp-spring lies in the path of the lock end of the hammer when such hammer is pulled back to a cocking position, as shown in Fig. 2. To hold the hammer cocked, the end of the member 4^a has a lock-notch 4^b, which the lock-lip end 10^c engages, as clearly shown in Fig. 3, and to admit of an easy passing of the said end 10^c under the end 4^a when the hammer is swung back the lower edge of the end 4^a is beveled, as at 4^c. The body 1 and the cap-piece have radially-projecting lugs held

in alinement, which form a thumb-engaging member 15 to facilitate the holding of the device while placing it in position for use. (See Fig. 2.) The faces 16 of the tang and the clamp-spring are serrated, so as to more securely bind against the sides of the door or window crevice. Instead of serrating the ends they may have a yielding covering, such as a rubber cap, as indicated in dotted lines in Fig. 4.

My improvement is used as follows: The hammer is swung back to the position shown in Figs. 2 and 3 to bring its lock-lip over the lock edge of the clamp-spring end 4^a, such hammer being held back by the forefinger, the thumb engaging the member 16. The cartridge having been inserted within the socket-piece, the tang and clamp-spring is held against the side of the door or window casing and such door or casing closed thereagainst, which compresses the clamp-spring 4, causes it and the tang to bind in crevice, and at the same time forces the member 4^a inward to hold the hammer to its locked position, as clearly shown in Fig. 3. When in this position, it is manifest that should the door or window be opened pressure on the clamp-spring will be released, the device drop from the crevice, and as it does the end 4^a will spring back, release the hammer, and allow it to explode the cartridge.

My alarm device can be carried in the pocket and, while adapted for general use, will be found especially useful to travelers. The parts can be economically manufactured and so connected as not to break when the device falls to the floor.

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

1. A burglar-alarm, comprising a body having a cap-holding socket and a spring-clamp therebeyond, and a spring-actuated exploding-hammer pivotally held in said body and formed with a locking-lip, one of the members of said spring-clamp entering said body and being arranged to engage said locking-lip to hold the hammer raised, as shown and described.

2. A burglar-alarm, comprising a body having a cartridge-holding portion, a spring-actuated hammer pivotally connected therewith and having a lock end, and a clamp-spring adapted to enter the door or window crevice and having a movable portion adapted to engage the lock end of the hammer when such hammer is moved to a cocked position, and

to release such hammer when the door or window is opened, as set forth.

3. A burglar-alarm, comprising a body member having a cartridge-holding pocket, and a spring-tang having a clamp member provided with an angle portion projected inward over the rear face of the cartridge-pocket, a cap-plate held on the body, said body having a peripheral slot, a spring-operated hammer pivotally held between the body and the cap-plate, having a lock end, and having its front end extended through the peripheral slot and provided with an exploding-head, said clamp member being adapted to engage the lock end of the hammer when compressed by the closing of the door or window, substantially as shown and for the purposes described.

4. A burglar-alarm, comprising the body portion formed with a cap-socket, and a member arranged to be projected in the door or window crevice, a spring-operated firing-hammer pivoted in said body and provided with a rear extension, and a device for holding said hammer in a cocked position, said device being brought into engagement with the said rear extension by the pressure of the closed door or window, and automatically releasing the hammer when such door or window is opened as described.

5. In a device for the purpose described, the combination with the body having a cartridge-holder, and clamp devices for holding it in the door or window crevice, and having a radial projection 15, of a spring-actuated exploding-hammer pivotally held on the body and having its head extended beyond the body, and provided with a finger portion, and means for holding the hammer to its cocked position and releasing the same when the door or window is opened, as specified.

6. A burglar-alarm, comprising a member 1 having a forwardly-extending spring-tang and a spring-clamp having an angle portion 4 provided with a lock-notch 4^a, and the cartridge-pocket secured to the body in advance of the portion 4 of the cap-plate, the hammer held between such plate and the body, having its front end projected beyond the body and having a firing-head, its rear end having a lock-lip 10^c, the spring 9 secured to the hammer and the cap-plate, all being arranged substantially as shown and for the purposes described.

FRANK FENLEY.

Witnesses:

HERMANN PILGER,
O. T. NOBLES.