

(No Model.)

E. REICHENBACH.
BURGLAR ALARM.

No. 534,482.

Patented Feb. 19, 1895.

Fig. 1.

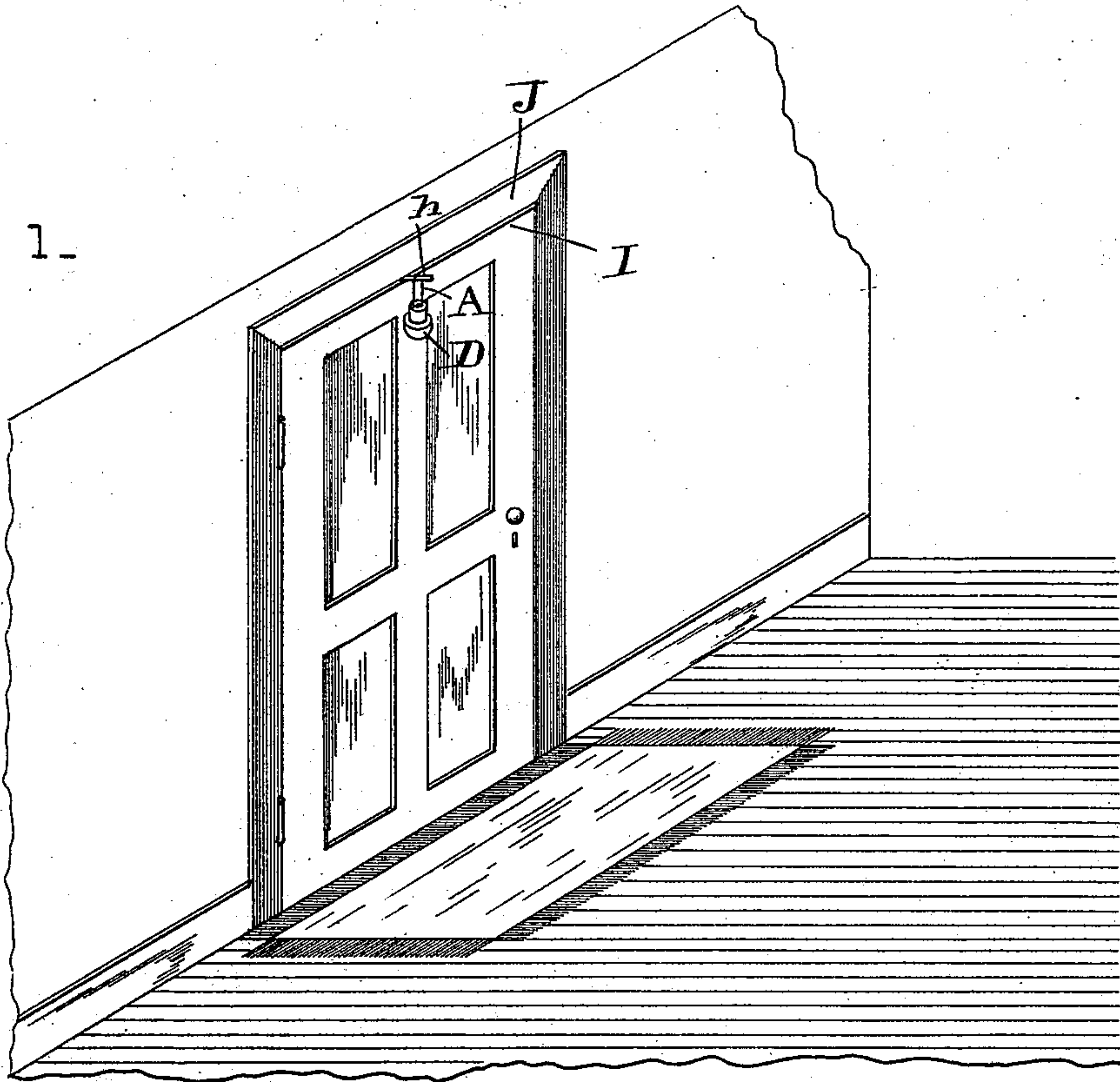


Fig. 2.

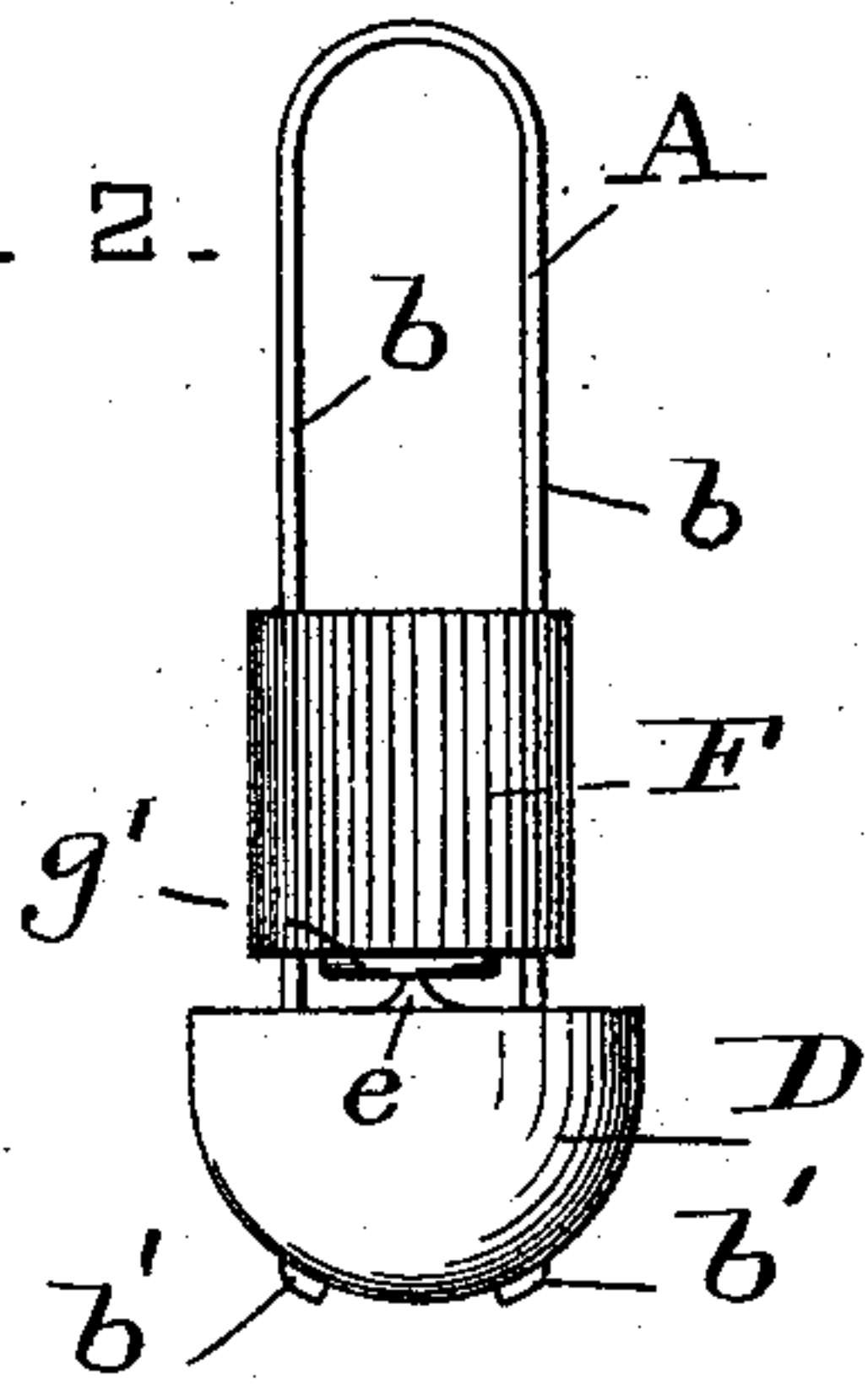
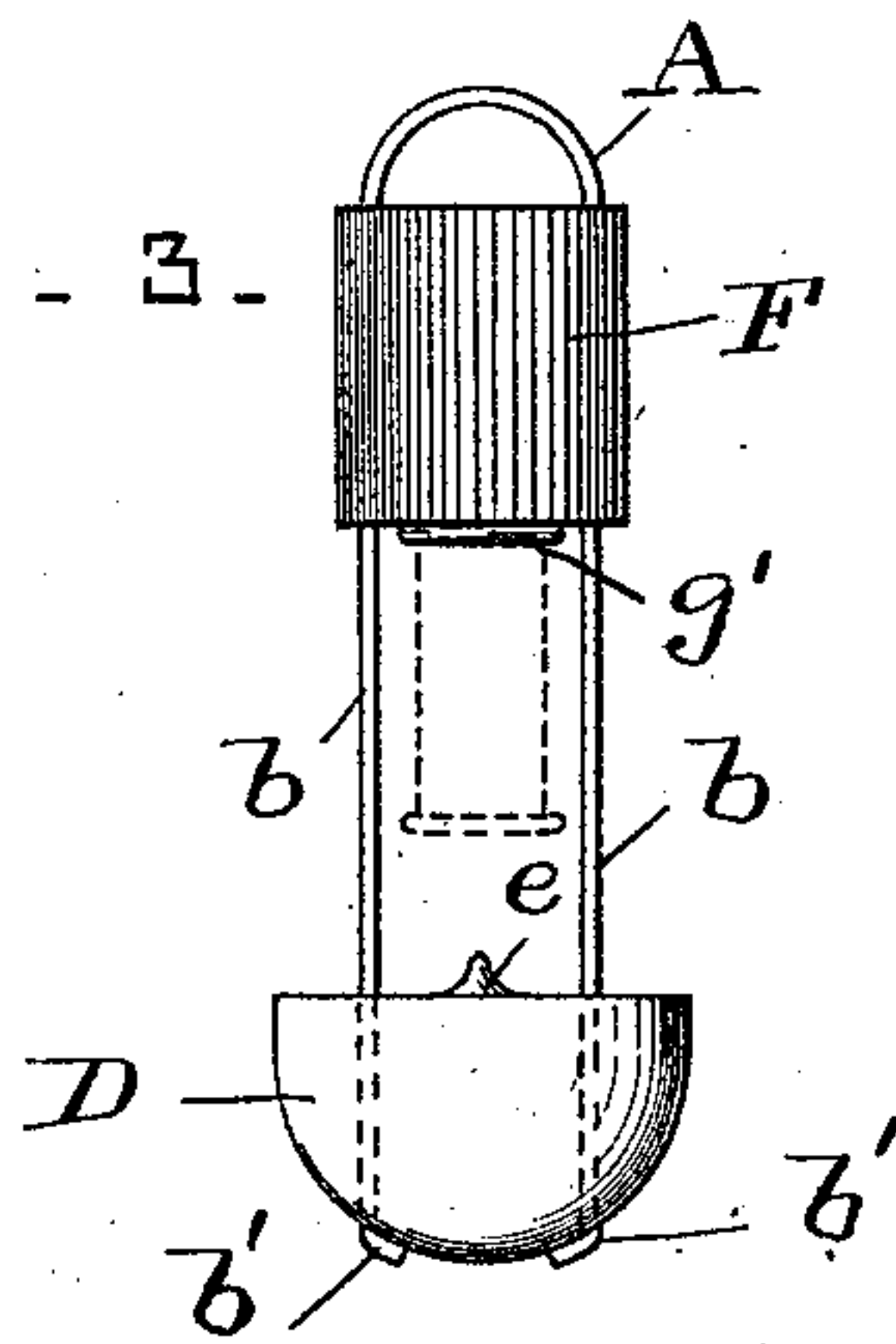


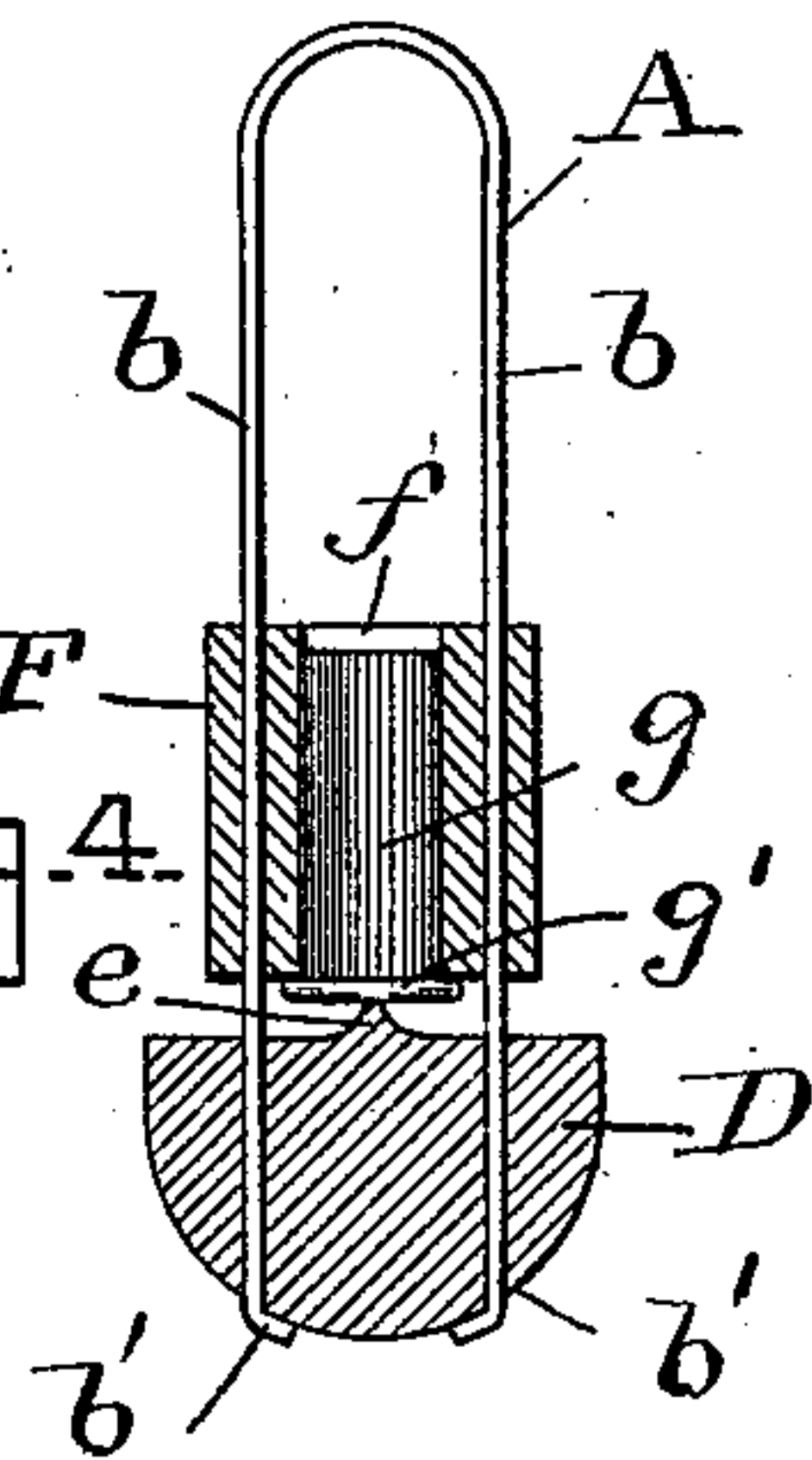
Fig. 3.



WITNESSES:—

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Fig. 4.



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BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 534,482, dated February 19, 1895.

Application filed December 13, 1894. Serial No. 531,637. (No model.)

To all whom it may concern:

Be it known that I, EDWARD REICHENBACH, a citizen of the United States, residing at Jefferson, in the county of Jefferson and State of Wisconsin, have invented certain new and useful Improvements in Burglar-Alarms, of which the following is a specification.

This invention relates to certain new and useful improvements in burglar alarms for doors, of that class commonly termed "detonating," and has for its object to provide a device of simple construction carrying an explosive cartridge and adapted to be supported normally on a closed window or door of a house, the opening of said window or door causing the release of the device which thereupon falls to the floor and explodes the cartridge and so gives an alarm.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is an interior view of part of a room showing the alarm device applied to a door. Fig. 2 is a side view of the device showing the cartridge cylinder lowered and the cartridge in position. Fig. 3 is also a side view but shows the cartridge cylinder raised for the purpose of inserting or extracting a cartridge. Fig. 4 is a central vertical section showing the cartridge cylinder lowered and the cartridge in position.

In the accompanying drawings the letter, A, designates a loop or staple-shaped wire hanger having two parallel arms, *b*. These arms are connected at the top by a return bend.

A weight or hammer, D, of any desired shape but in the present instance comprising a semi-circular piece of metal is secured on the free ends, *b'*, of the parallel arms, *b*, and is provided on its top surface with a firing pin or point, *e*. In the present instance the hammer is secured by having the free ends of the hanger arms passed down through it and the terminal points of said arms bent, clinched or flattened down on the under side of the hammer.

A cylinder, F, having a central chamber, *f*, to contain the blank cartridge to be exploded, is mounted on the hanger-arms, *b*, so as to move or slide thereon between the return bend and said hammer in order to permit of the insertion of a blank cartridge, *g*, at the lower end of the chamber, as shown in the drawings, so that the rim, *g'*, of the cartridge

carrying the fulminating cap or "primer" will have position, when the cylinder is lowered, where the firing pin, *e*, will take against the said cap and explode it in the manner hereinafter stated. Figs. 2 and 4 show the relative positions of the parts when the device is suspended by the hanger.

The drawing, Fig. 1, shows one way of applying the alarm device to a door in readiness for operation. Here a small pin support, *h*, is inserted in the crevice between the upper edge of the door, I, and the frame-piece, J, above it, and this pin projects horizontally and the alarm device is suspended therefrom by the hanger-loop, A. By this construction of parts and the arrangement for its operation, it will be understood when a burglar or an unauthorized person opens the door, or forces an entrance into the room through the door, the pin, *h*, will be released and the alarm device will drop to the floor; and the shock or concussion produced by the contact of the weight or hammer, D, with the floor, will cause the firing pin or point, *e*, to puncture the fulminating cap and thus cause the cartridge to explode with a loud report, thus giving an alarm.

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

1. The combination in a burglar alarm, of a wire hanger, A, having two parallel arms, *b*; a firing hammer mounted at one end of the said hanger; and a cylinder movable up and down on said parallel arms to and from the hammer and provided with a chamber to hold a cartridge, said cartridge being exploded by said hammer.

2. The combination in a burglar alarm, of a loop or staple-shaped hanger, A, having two parallel arms, *b*, connected at one end by a return bend; a weight or hammer, D, mounted on the other end and said weight provided on top with a firing pin or point, *e*; a cylinder, F, movable on the hanger arms between the said pin and the return bend and provided with a chamber for a cartridge; and an explosive cartridge in said chamber.

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

EDWARD REICHENBACH.

Witnesses:

F. W. BOEHM,
B. S. HARRIS.