

(No Model.)

I. L. HAUSER.
BURGLAR ALARM.

No. 545,426.

Patented Aug. 27, 1895.

Fig. 1.

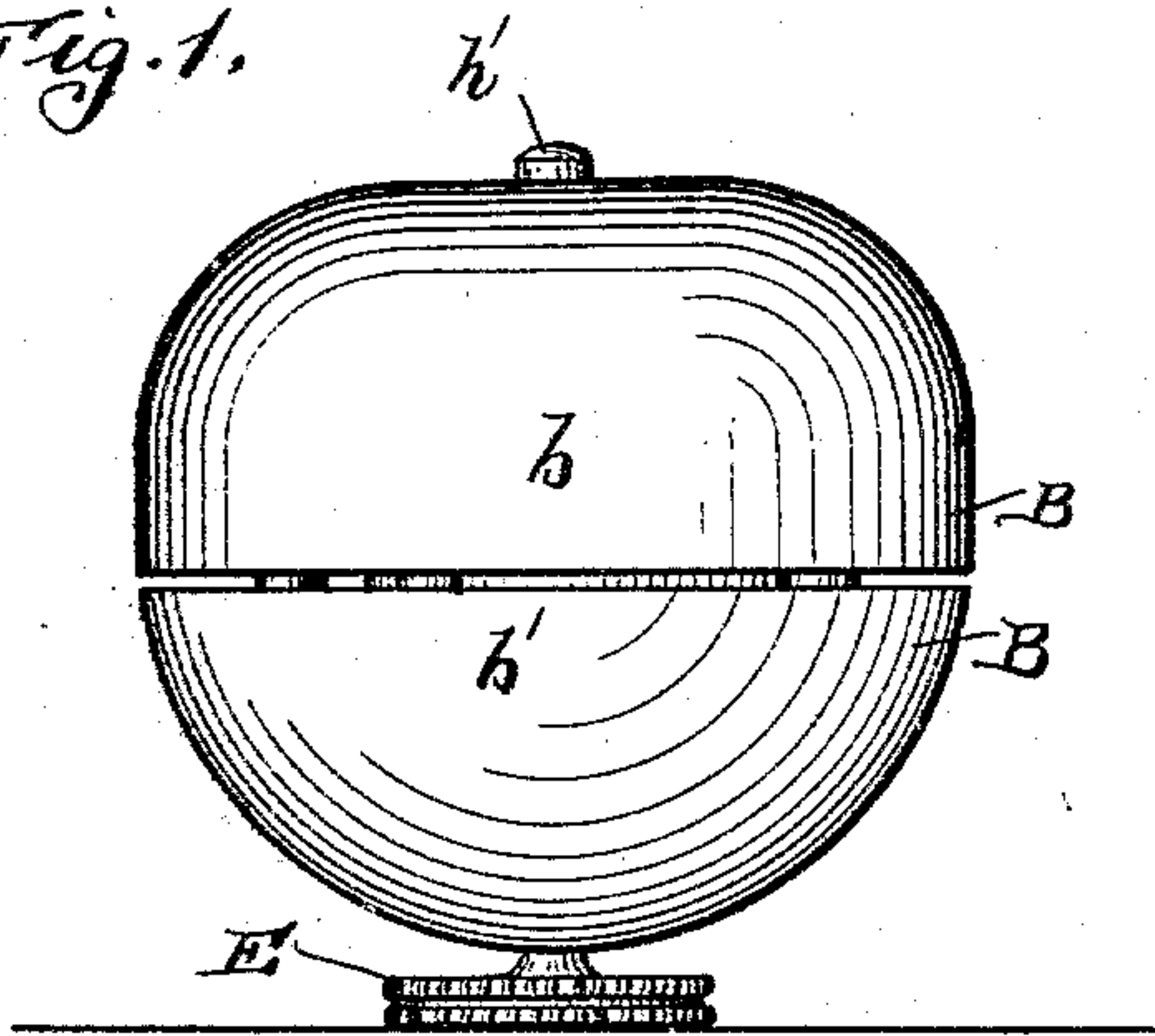


Fig. 2.

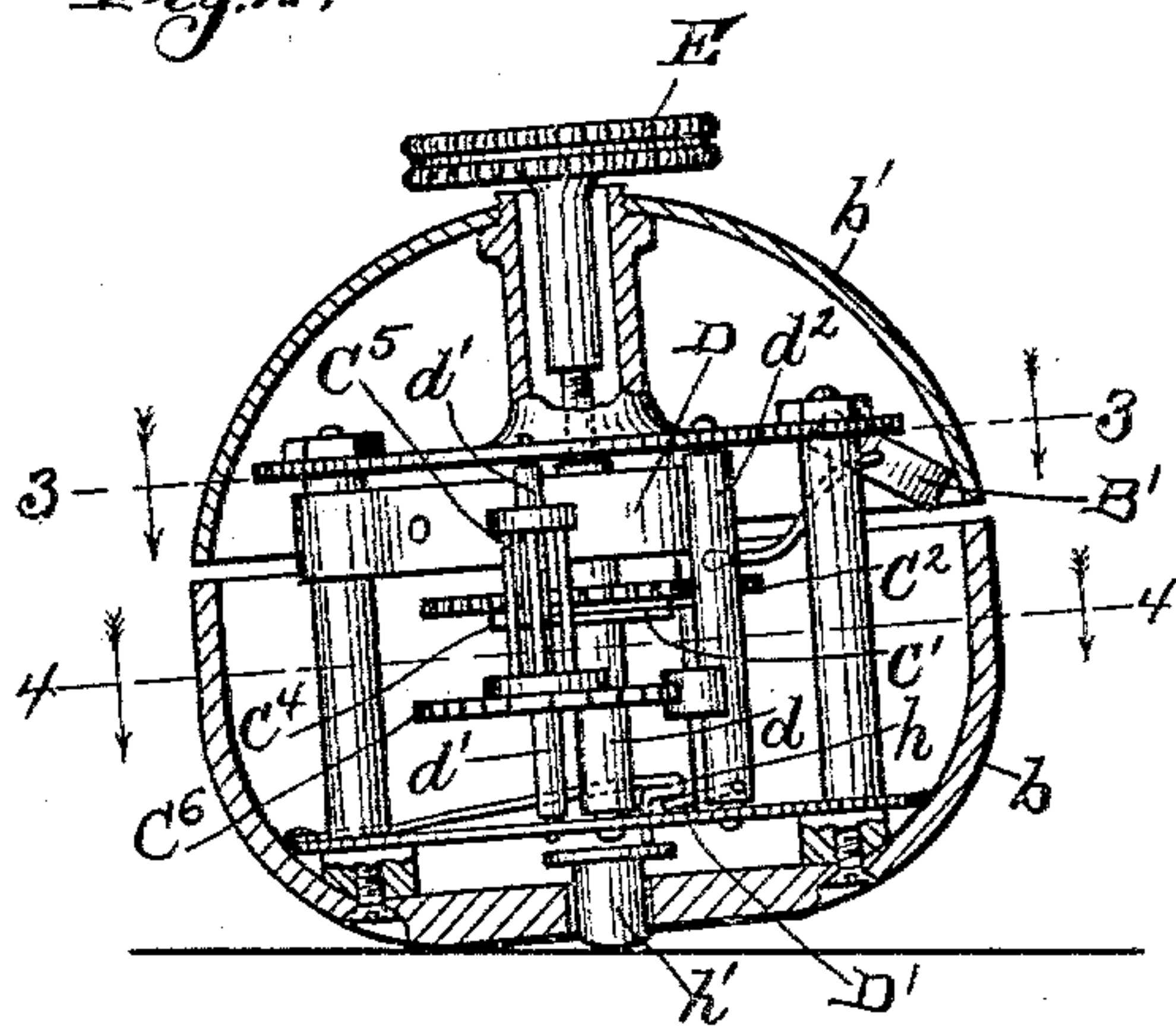


Fig. 3.

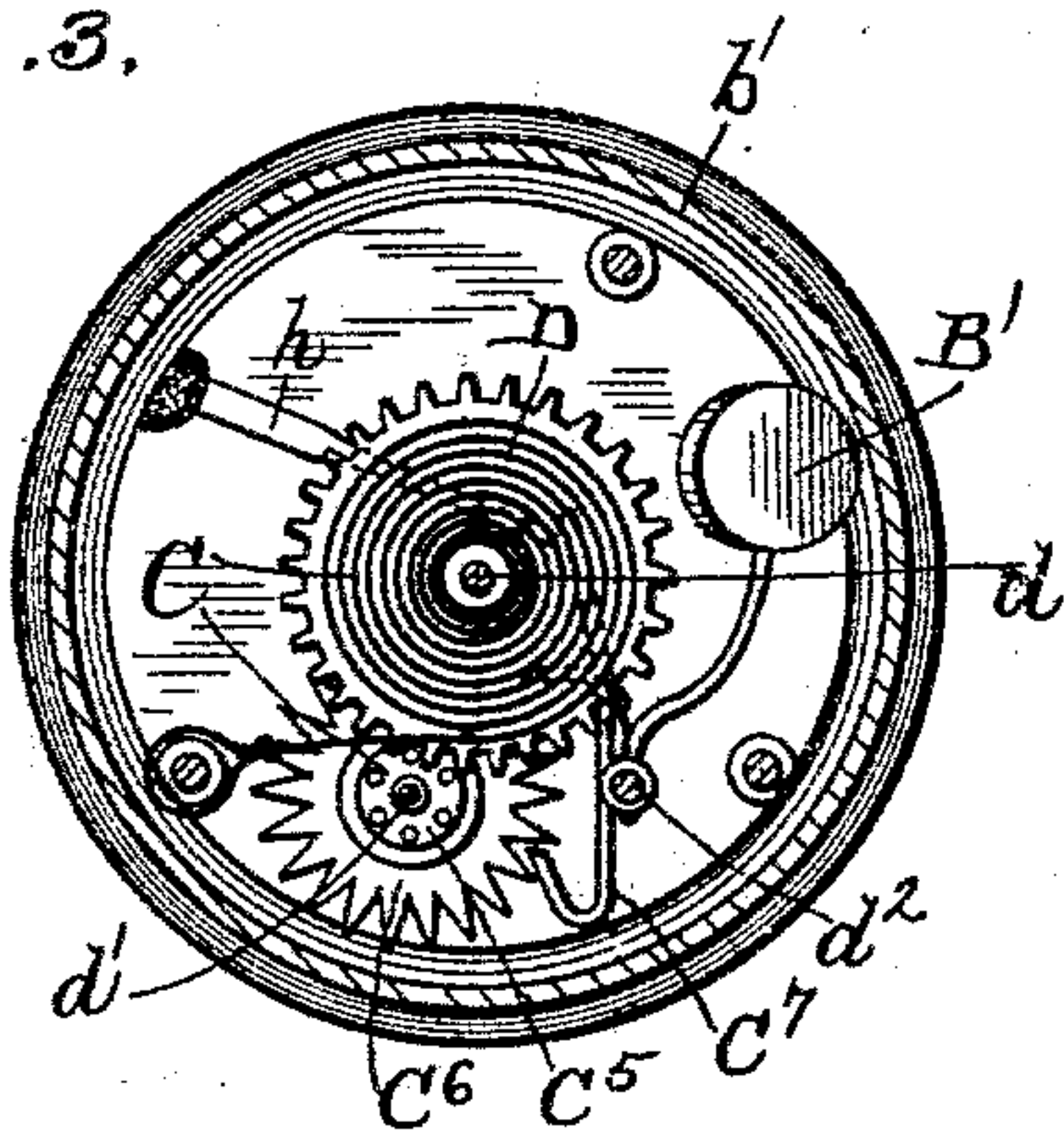


Fig. 4.

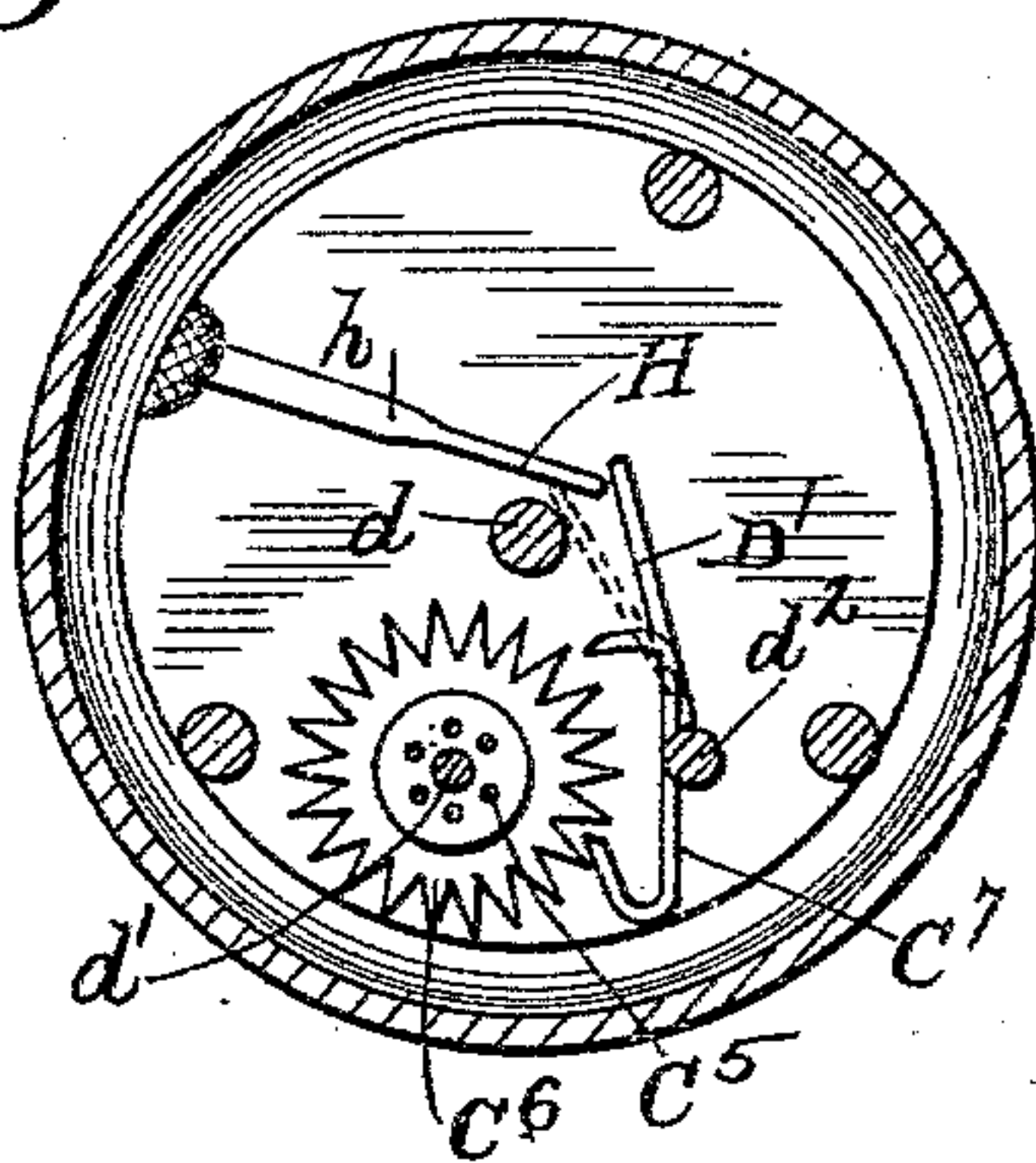
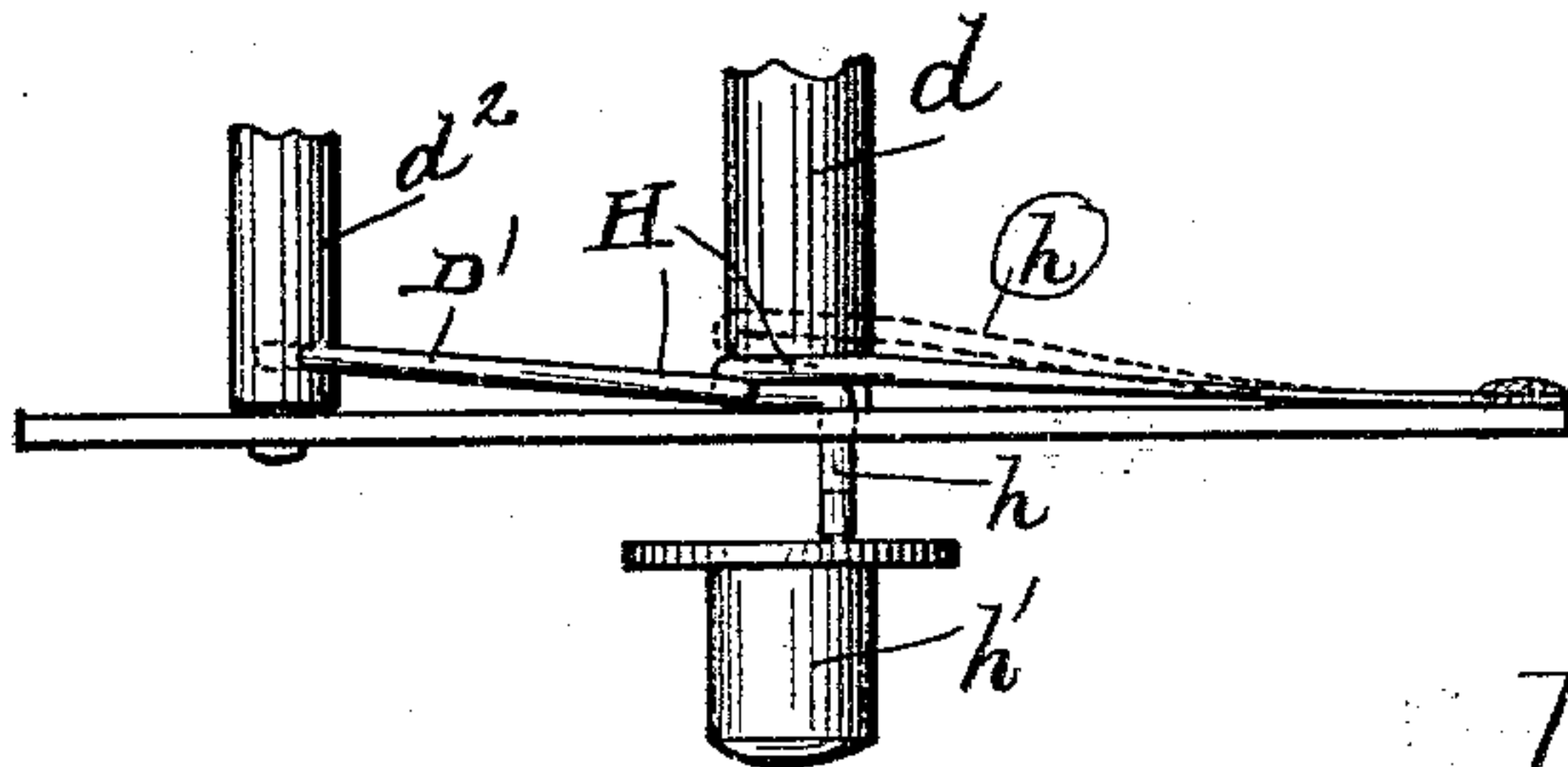


Fig. 5.



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BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 545,426, dated August 27, 1895.

Application filed May 7, 1895. Serial No. 548,411. (No model.)

To all whom it may concern:

Be it known that I, ISAIAH L. HAUSER, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Burglar-Alarm and Call-Bell, of which the following, when taken in connection with the drawings accompanying and forming a part hereof, is a full and complete description, sufficient to enable those skilled in the art to which it pertains to understand, make, and use the same.

The invention relates to the class or kind of burglar-alarms wherein an alarm-bell is automatically released and rung and an alarm thereby given when it is disturbed by the movement of the thing to which it is attached.

The invention also relates to the class of call-bells wherein upon the pressing of a button a bell will automatically ring; and the object of this invention is to obtain a device constituting a burglar-alarm which can be placed against a door on the inside thereof—that is, so that the door will be opened against it—and when such event occurs the alarm will be automatically started and the bell thereof rung; to obtain a device which can be placed on the floor at any point in a room or chamber and connected to the doors or windows (or some of them) in such manner that if any door or window is opened, or partially so, the device will be automatically started; to obtain a device which can be attached to a trunk, valise, or other articles in such manner that if all or any of such articles be moved the alarm will be automatically started, and, further, to obtain a device which can be used as a call-bell in addition to the use thereof as a burglar-alarm.

To accomplish the results sought by me I place a spring connected by a short train to a bell-hammer within a shell or case, such shell or case being of such form that it has but two stable positions, in one of which positions the device can be placed and in which it will remain until disturbed, whereupon it will automatically and necessarily assume the other of such two positions, and when in such second-named position a catch or lock holding the train from movement is released and the bell rung through the actuating of the bell-hammer by the spring; and, further, I so construct the catch or lock that when

the device is in that one of the two stable positions thereof wherein the train is locked such lock or catch can be readily actuated and the train released, so that the bell will be rung.

In the drawings referred to, Figure 1 is a side elevation of a burglar-alarm and call-bell embodying my invention in position so that the bell will not be automatically rung. Fig. 2 is a vertical sectional view of the device in position so that the bell will be automatically rung. Fig. 3 is a horizontal sectional view on line 3 3 of Fig. 2, viewed in the direction indicated by the arrows. Fig. 4 is a horizontal sectional view on line 4 4 of Fig. 2, viewed in the direction indicated by the arrows; and Fig. 5, an elevation, on an enlarged scale, of the lock or catch controlling the train.

A reference-letter applied to a given part is used to indicate such part throughout the several figures of the drawings wherever the same appears.

b' is the bell of the burglar-alarm and call-bell. I prefer to construct the device so that this bell forms a part of the shell or case *B*. When so constructed, such bell should not be in contact with the floor when the device is in the one of its positions in which the catch or lock of the train is automatically released and the bell rung.

B is the shell or case of the device, composed of parts *b b'*.

C is the train of the device connecting parts *b b'* of the case and extending between the spring *D* and the bell-hammer *B'*. Train *C* is composed of shaft *d*, to one end of which the spring *D* is secured; ratchet-wheel *C'*, rigidly secured on shaft *d*; wheel *C²*, loosely mounted on shaft *d*; pawl *C⁴* on wheel *C²*, connecting such wheel and the ratchet-wheel *C'*; pinion *C⁵* on shaft *d'*; escape-wheel *C⁶*, and shaft *d²*, with escapement *C⁷* and bell-hammer *B'* thereon.

E is a thumb-wheel secured on shaft *d*, by means of which spring *D* can be wound. Thumb-wheel *E* also forms a base, as is illustrated in Fig. 1, on which the device stands when ready for action either as a burglar-alarm or as a call-bell.

H is the lock or catch controlling the train *C*. Lock or catch *H* consists of the lever *h*,

engaging when in one position with the arm D' on shaft d^2 and when not in such position not engaging with such arm. Lever h may be constructed of elastic or spring material, as illustrated in Fig. 5, if preferred. In any event lever h is yieldingly held in position to engage with arm D', but may be forced out of such position by the push-button or push-plug h' . When the device is in the position indicated in Fig. 2, sufficient of the weight of the device rests upon the plug to force the plug in and release the lock or catch H, so that the bell can be rung in the movement of the bell-hammer B' by spring D. When the device is in the position illustrated in Fig. 1, a slight pressure on the push-button or push-plug h' will ring the bell. It will be observed that the train C, connecting parts b b' of the case, is contained in part b thereof, and that such part b is thicker and of greater weight than part b' . Hence the center of gravity of the device is in such part b , and also that the parts are of substantially the shape shown in the drawings, although a slight variation thereof is permissible; but in every case the shape of the case or shell B must be such that when the device is pushed over off from the base afforded by the thumb-wheel E it will not be stable until it has assumed the position illustrated in Fig. 2, wherein the catch or lock H is released from engagement with the train and the alarm sounded.

The manner in which the device is used is: Spring D is wound by thumb-wheel E, and the device is set down on the thumb-wheel, as illustrated in Fig. 1. To use as a call-bell, the push-button or push-plug h' is pressed down and the bell will ring. When used as a burglar-alarm, the device is placed against a door or connected to a window or door, as by a string, so that opening or partial opening of the door or window will throw the device off from the thumb-wheel E, when the device will automatically assume the position illus-

trated in Fig. 2 and the push-button will thereby be pressed inward and the bell rung.

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

1. In a burglar alarm and call bell, the combination of a two part case or shell, a spring and a train actuated thereby mounted in one part of the case and a bell composing the other part, a lock to the train, a push button in the part of the case holding the spring and train, such push button extending beyond the surface of the part of the case containing the spring and train, and a thumb wheel on the other part of the case, such thumb wheel serving to wind the spring and also as a base on which the device can be set; the case having the center of gravity in the part thereof containing the push button and of such shape that when the device is not resting on the thumb wheel its stable position is one wherein the push button is forced in and the lock released by the weight of the device; substantially as described.

2. The combination in a burglar alarm and call bell of a two part case, a spring and a train mounted in one part of the case and a bell composing the other part of the case, an escapement to the train and a bell hammer secured to the escapement shaft, an arm secured to such escapement shaft, and a spring lever yieldingly maintained in engagement with the arm, with a push button in contact with the spring lever, such push button extending beyond the surface of the part of the case containing the spring and train and by which push button such spring lever can be forced out of engagement with the arm on the escapement shaft.

ISAIAH L. HAUSER.

In presence of—

CHARLES TURNER BROWN,
FLORENCE MCPHAIL.