

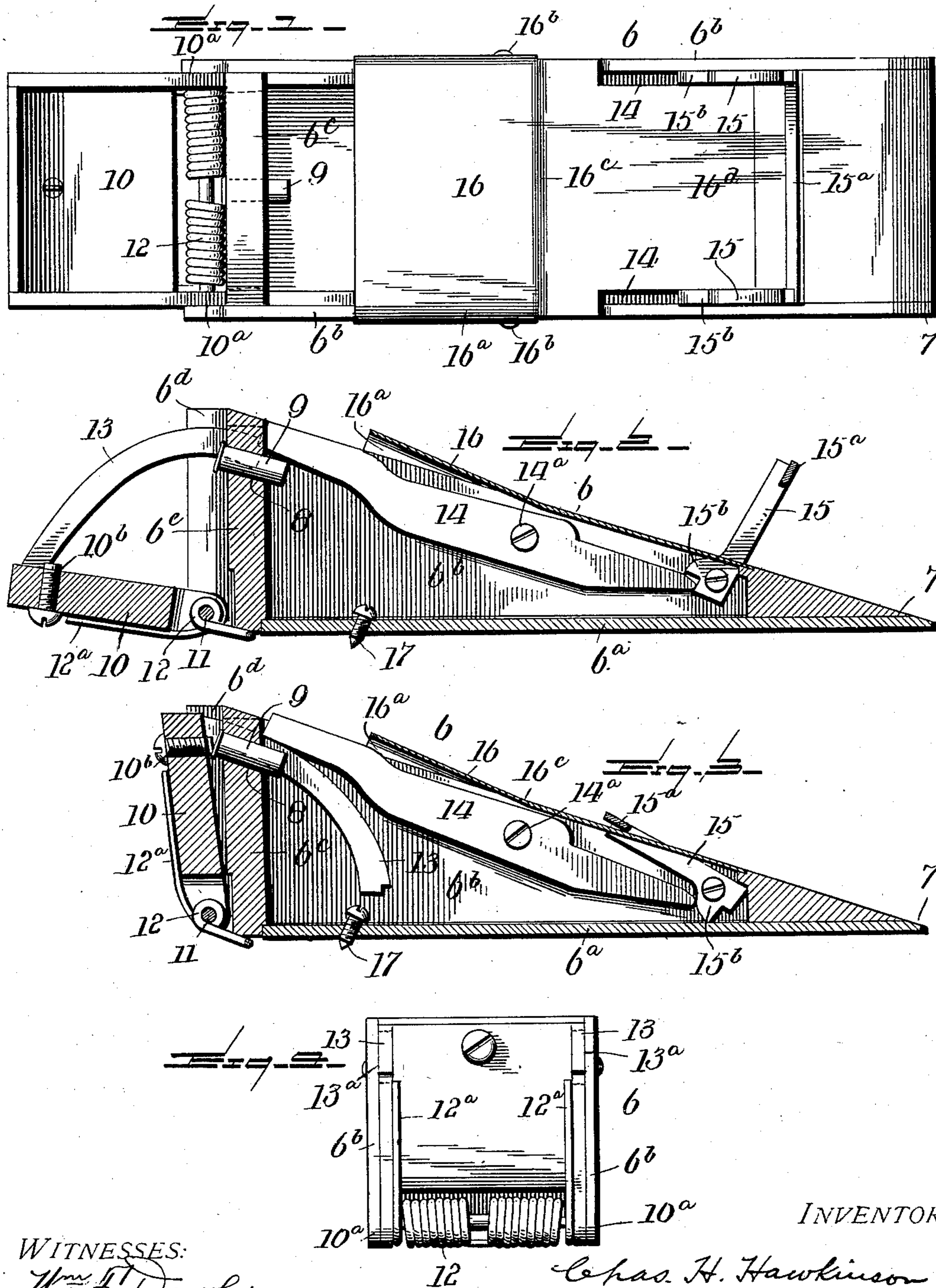
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C. H. HAWKINSON.
COMBINED BURGLAR ALARM AND DOOR CHECK.

(Application filed June 5, 1901.)

(No Model.)



WITNESSES:

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COMBINED BURGLAR-ALARM AND DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 685,837, dated November 5, 1901.

Application filed June 5, 1901. Serial No. 63,300. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. HAWKINSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Combined Burglar-Alarm and Door-Check; 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 figures of reference marked thereon, which form a part of this specification.

My invention relates to combined burglar-alarms and door-checks, and particularly to those in which the alarm is given by the discharge of a percussion cap or cartridge and in which the door is checked by engagement of its lower edge against a wedge-shaped casing placed on the floor. Its objects are to provide such a device adapted to prevent the entrance of the burglars to a house or room and at the same time to warn the occupants of the attempt to enter.

A further object is to provide a portable alarm adapted to be carried and used by a traveler.

A further object is to provide a device of the character stated with means to obviate danger of fire to the house arising from the discharge of the cartridge or cap.

With these and other objects in view an embodiment of my invention is herein described, and is illustrated in the accompanying drawings, in which—

Figure 1 is a top plan view of the device with the hammer cocked. Fig. 2 is a longitudinal vertical section with the parts in the same position. Fig. 3 is a similar section with the hammer released and cartridge discharged. Fig. 4 is a back or rear view of the device.

Referring more particularly to the drawings, the device consists of a wedge-shaped casing 6, comprising a bottom 6^a, sides 6^b, which are inclined or beveled to a point 7, and rear end wall 6^c, the parts being securely and rigidly connected together. The rear wall has a downwardly and inwardly inclined perforation 8, adapted to hold a blank car-

tridge (indicated at 9) in position to be discharged inwardly or toward the point of the wedge. The side walls 6^b are extended beyond the rear wall, as at 6^d, forming extensions between which the hammer-plate 10 is pivoted at its lower edge by means of a pivot 11, extending through ears 10^a, projecting from the lower edge of the plate, and into bearings in the extensions 6^d. Coiled around the pivot is a spring 12, the ends 12^a of which press against the back of the hammer-plate, and this spring acts to throw the hammer-plate against the rear wall, as indicated in Fig. 3. To each side of the hammer-plate are pivotally attached the ends of curved triggers 13, the other ends of which are adapted when the hammer is cocked to abut against the rear ends of levers 14, which are pivoted by pivots 14^a to the sides of the casing. The triggers 13 pass loosely through recesses 13^a, formed in the rear wall. In position to depress the forward ends of the levers 14, and consequently to raise the rear ends thereof out of contact with the abutting ends of the triggers 13, are operating or tripping levers 15, pivotally attached to the sides of the casing. These levers are adapted when the hammer is cocked to extend or stand upright beyond the plane of the top of the casing and in the path of the door. They are preferably connected together at their tops by a cross-bar 15^a, so that both will act simultaneously. At their lower ends they have backwardly-extending toes 15^b, which act as cams and bear upon the forward ends of the levers 14.

When set to be discharged, the implement is placed on the floor with its point close to the door, the hammer-plate drawn back, the triggers 13 abutting against the outer ends of the levers 14, and the tripping-levers 15 standing in substantially a vertical position in the path of the door. Should the door be opened, its lower edge will strike and throw down the tripping-lever, causing the toes 15^a to depress the inner ends of the levers 14 and raise the outer ends thereof out of contact with the ends of the triggers 13. This releases the triggers and hammer-plate, permitting the spring to forcibly project the latter against the cartridge. The inner face of

the hammer-plate is provided with a firing-pin 10^b, projecting therefrom and adapted to strike and discharge the cartridge.

5 A cover for the casing and means for retaining the flame of the discharge within the casing, so as to avoid the danger of setting the house afire, is formed by the sheet-metal plate 16, having its edges 16^a turned down beside the side walls, to which it is attached
10 by pivot 16^b. The rear part of the plate is bent or flared upwardly, as at 16^c, and its forward part 16^d extends forwardly between and beyond the levers 15. A limited rocking movement is thus permitted for this plate,
15 and when the door is opened the forward end thereof will extend under the lower edge of the door. Immediately after the tripping-lever is thrown the edge of the door will strike the flaring portion of the plate and depress
20 the same, forcing the forward portion of the plate upwardly against the edge of the door, thereby retaining the implement in position, preventing its being moved or overturned by the recoil from the discharge of the cartridge.
25 Spurs or teeth 17 on the bottom of the casing also act to prevent sliding or displacement. It will be seen that the cover confines and smothers the flame within the casing.

Having thus described the invention, what

is claimed as new, and desired to be secured 30 by Letters Patent, is—

1. In a combined burglar-alarm and door-check, a wedge-shaped casing, a pivoted cover thereon located in such position as to engage the lower edge of a door, a cartridge- 35 holding opening in the rear wall thereof, a spring-controlled hammer, a trigger, and means to actuate the same to release the hammer, substantially as described.

2. In a combined burglar-alarm and door-check, a wedge-shaped casing, a cartridge-receiving opening in the rear wall thereof, a spring-controlled hammer-plate pivoted without said wall, a firing-pin projecting from the hammer-plate, a trigger 13 pivoted at one end 45 to the hammer-plate and extending at the other end into the casing, the pivoted lever 14 within the casing, forming at one end an abutment for the trigger when the hammer is cocked, and the door-lever 15 adjacent to the 50 other end of lever 14 and adapted to throw said lever out of engagement with the trigger.

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

CHARLES H. HAWKINSON.

Witnesses:

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