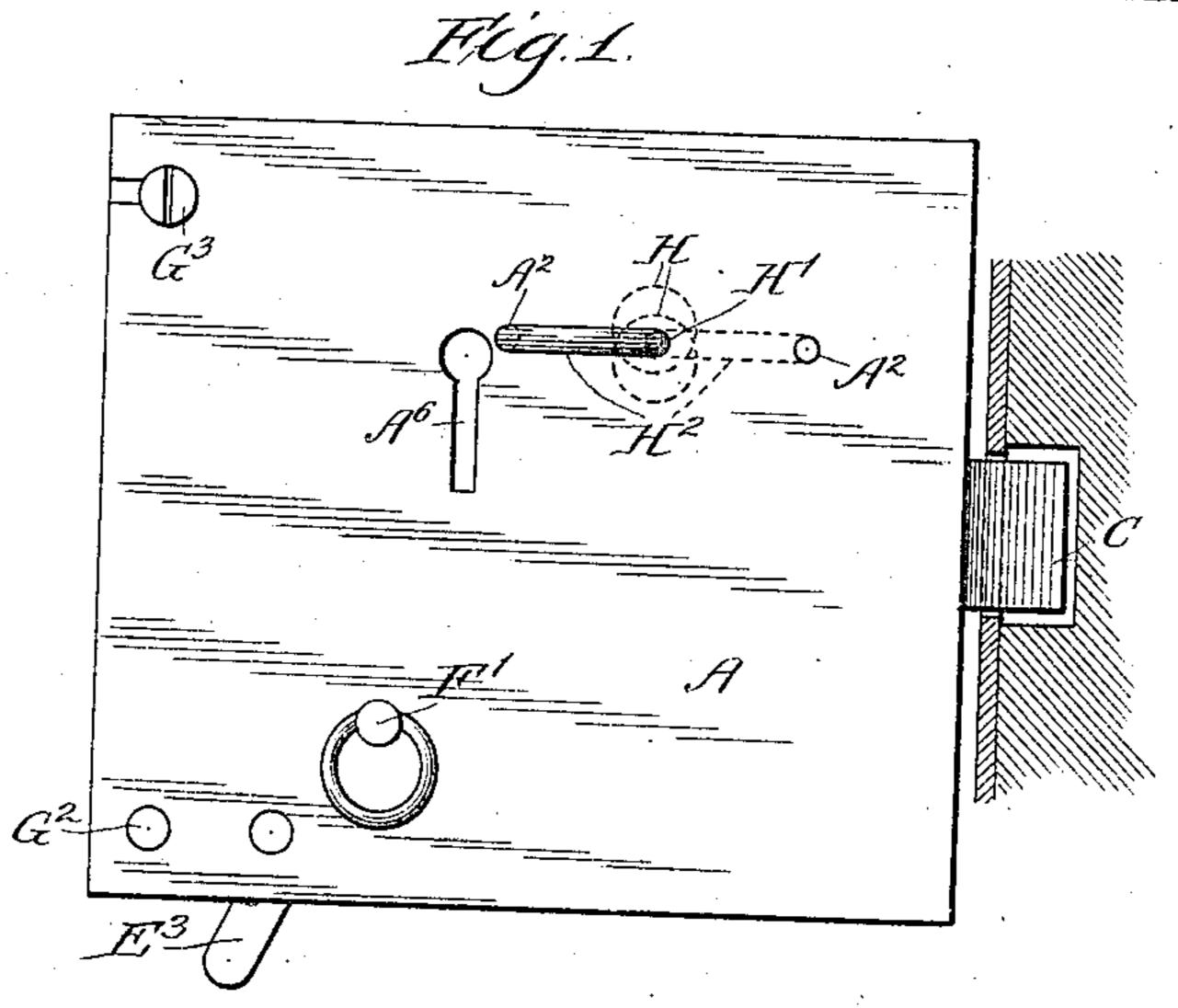
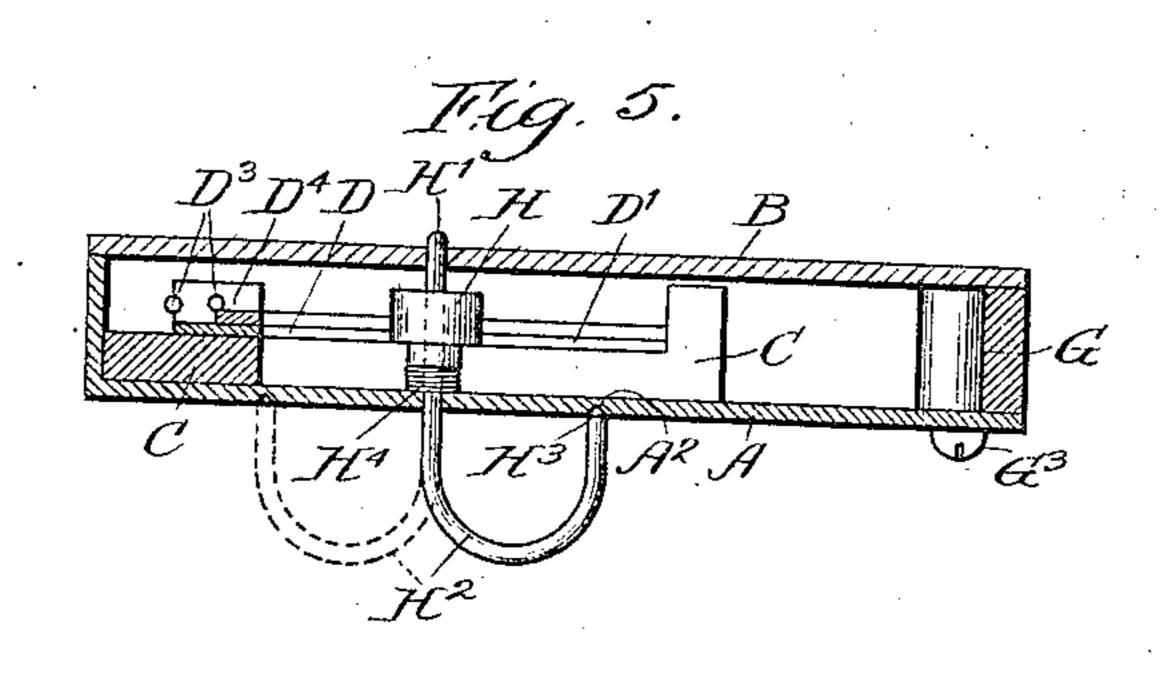
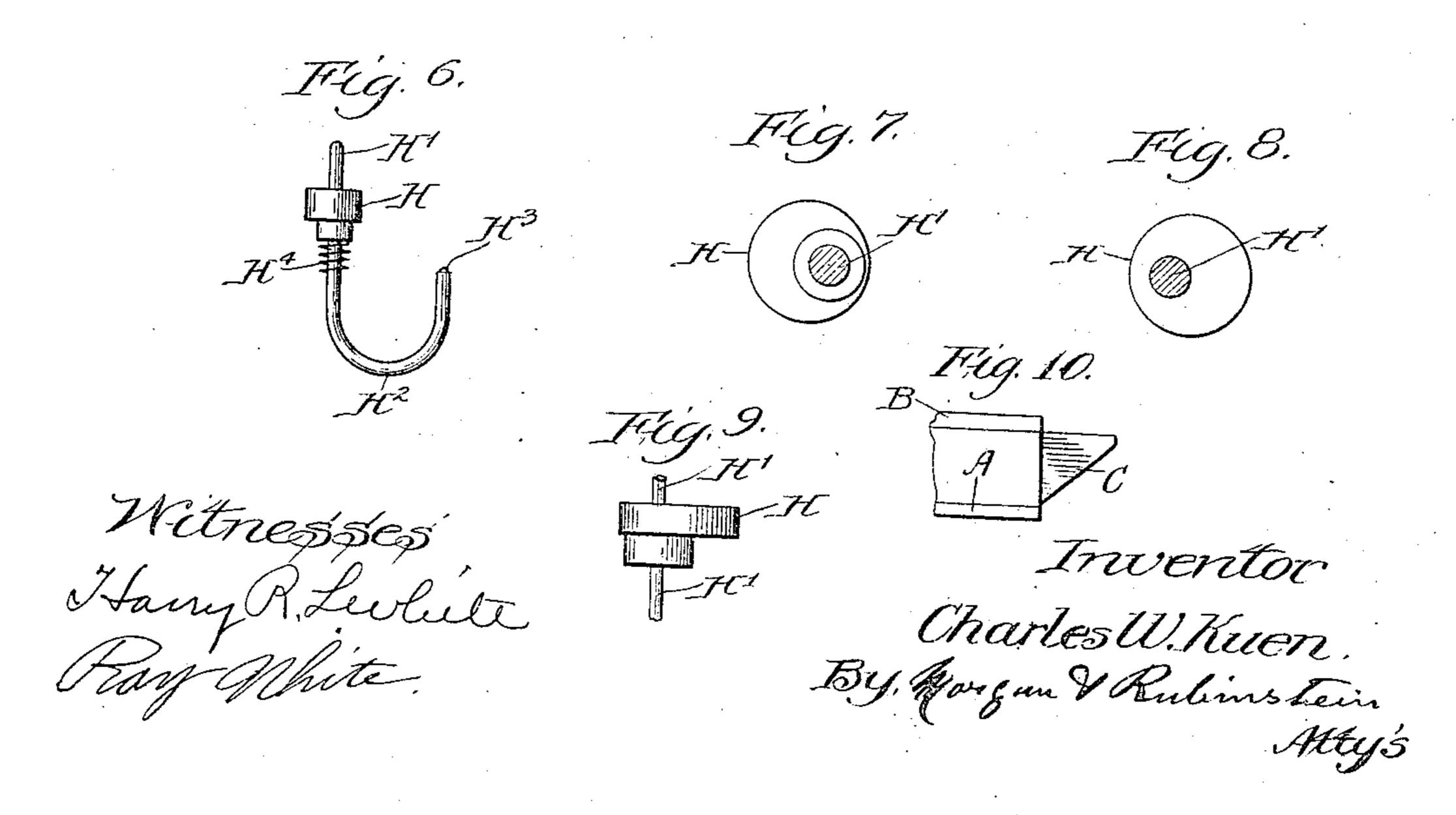
# C. W. KUEN. BURGLAR ALARM. APPLICATION FILED OCT. 12, 1905.

2 SHEETS-SHEET 1.

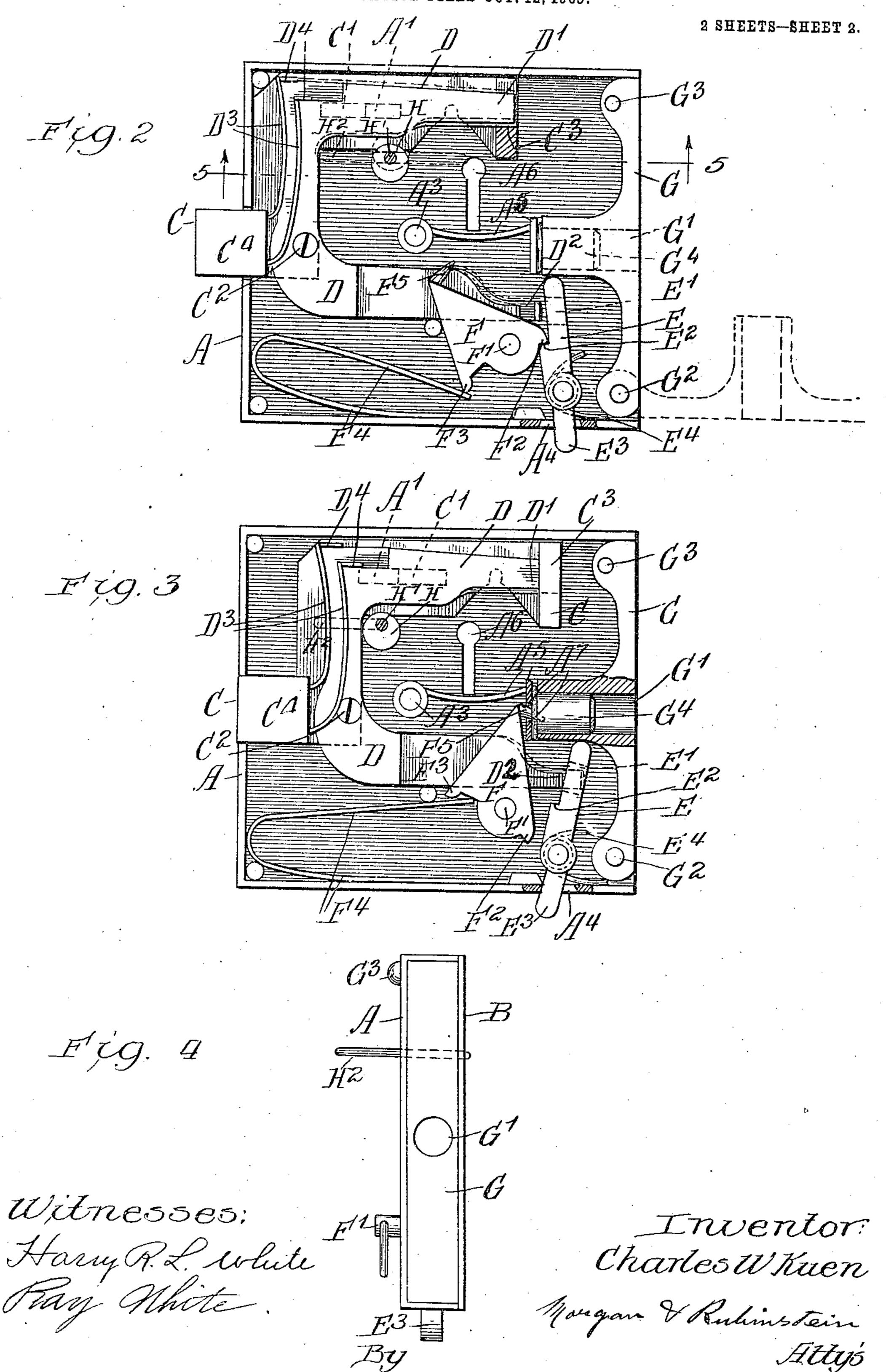






## C. W. KUEN. BURGLAR ALARM.

APPLICATION FILED OCT. 12, 1905.



# UNITED STATES PATENT OFFICE.

### CHARLES W. KUEN, OF CHICAGO, ILLINOIS.

#### BURGLAR-ALARW.

No. 843,614.

Specification of Letters Patent.

Patented Feb. 12, 1907.

Application filed October 12, 1905. Serial No. 282,461.

To all whom it may concern:

Be it known that I, CHARLES W. KUEN, a citizen of the United States, residing at 3101 State street, in the city of Chicago, in the 5 county of Cook and State of Illinois, have invented a new and useful Improvement in Burglar-Alarms, of which the following is a specification.

My invention relates to that class of alarms 10 used as an attachment on doors, windows, and other structures which are opened and closed for the purpose of giving an alarm when the parts with which the alarm is attached

or connected are opened or moved.

The object of my invention is to construct an alarm similar to a lock which while it can be opened and closed with a proper key when set for an alarm will explode a cartridge if the parts are otherwise moved by a wrong 20 key or other instrument or by the opening of the structure to which it is attached or connected and that can be loaded or unloaded, set or unset, without removal from the place to which it is attached.

The manner in which I accomplish my object is explained in the following specifications and illustrated in the accompanying

drawings, in which—

Figure 1 is a front elevation of the alarm 30 set for the explosion and section of latchplate and door-jamb. Fig. 2 is an inside view showing the mechanism in position to make the alarm. Fig. 3 is an inside view showing the several parts in position after 35 the alarm has been given. Fig. 4 is a right end view showing the back of the cartridgeholder. Fig. 5 is a sectional view through the line 5 5, Fig. 2. Figs. 6, 7, 8, and 9 are detail views of the eccentric mechanism. 45 Fig. 10 is a detail view of part of the side of the case, showing the beveled head of the latch projecting therefrom.

45 anism is arranged. This case may be made of any suitable material and size. In this case is a sliding latch C, which is guided in its movements by a lug A', which projects from the case, of which it forms a part, into an ob-50 long slot C' in the latch C. This latch is adapted to be moved by a key and by contact with the latch-plate on the door-jamb. Pivotally attached to the latch by its stud C<sup>2</sup> are two double-ended levers D, which are 55 adapted to be moved by a key. The key

I in the end of the latch, as shown in Figs. 2 and 3. The trigger ends D<sup>2</sup> of the levers are adapted to either engage the trigger E or to pass through a slot E' in the trigger when the 60 levers and the latch are moved. The levers are held in position to engage the trigger by springs D<sup>3</sup>, which are held in the head of the latch, and by the lugs D<sup>4</sup> on the levers. The trigger E, which is pivotally attached to the 65 case, has a shoulder E<sup>2</sup>, a thumb-piece E<sup>3</sup>, and is controlled by the pressure of a spring E<sup>4</sup>. Adjacent to this trigger is a hammer F, having a shaft F'. One end of this shaft extends through the case and is provided with a 70 ring, as shown in Figs. 1 and 4. This hammer has a lip F<sup>2</sup>, which is adapted to engage the shoulder E<sup>2</sup> of the trigger, arm F<sup>3</sup>, engaged by a spring F4, and a head F5, adapted to pierce the center of a cartridge, as shown 75 in Fig. 3.

In the back end of the case is a cartridgeholder G, having a barrel G', a pivotal stud G<sup>2</sup>, engaged in the case, and a lock-screw G<sup>3</sup>. The barrel G' is adapted to hold a cartridge 80 G4. An eccentric H is supported on a shaft H', which extends through the case and forms a handle H<sup>2</sup>, having a point H<sup>3</sup>, adapted to be engaged in the depressions A<sup>2</sup> in the case and held therein under the pressure of a 85

spring H<sup>4</sup>.

To load and set the alarm, the cartridgeholder is released by unscrewing the lockscrew G<sup>3</sup> and swinging the cartridge-holder out and down to the position shown by the 90 dotted lines in Fig. 2. The cartridge is then placed in the barrel and the holder placed back in position and secured by the lockscrew. In that position the head of the cartridge is pressed against the wall A<sup>5</sup>. The 95 hammer is turned back by the aid of the ring in the shaft till the lip passes the shoulder of the trigger, by which it is held. In Fig. 2 In the drawings the main body A and the | all the parts are shown in their normal posiback plate B form a case in which the mech- | tions when set ready for the explosion of the 100 cartridge, the handle H<sup>2</sup> of the eccentric being in the position shown by the solid lines in Figs. 1 and 5, in which position the eccentric H is out of contact with the levers D. With the parts thus set a movement of the 105 latch either by the sliding contact of the bevel-face of the head with the strikingplate on the jamb caused by the opening of the door or other structure on which the alarm is attached or by a wrong key or other 110 instrument introduced into the case through end D' of these levers rest in an aperture C<sup>3</sup> | the keyhole A<sup>6</sup>, which fails to lift the levers

to the proper position and moves the latch inward, will force the end of one or the other of the levers against the trigger and release the hammer which, actuated by the spring 5 F4, strikes the cartridge in the center through the hole A<sup>7</sup> in the wall A<sup>5</sup>, causing the cartridge to explode. The wall A<sup>5</sup> receives part of the shock of the explosion and prevents any part of the cartridge from entering the case 10 and clogging the parts therein. The extension of the wall below the keyhole also prevents the introduction into the case through the keyhole of any instrument or material to interfere with the action of the hammer. With 15 a proper key the levers and latch can be moved so that the ends of the levers pass through the slot E' in the trigger without moving it. When it is desirable to set the alarm, so that the cartridge will be exploded 20 by any inward movement of the latch, either by its contact with the striking-plate, by the opening of the door, or by the insertion of the proper or an improper key, or by any other means, then in that case the handle H<sup>2</sup> of the 25 eccentric H is turned toward the head of the latch, as shown by the dotted lines in Figs. 1 and 5. This brings the eccentric H into engagement with the levers D and holds the key ends D' of the levers above the reach of 30 the key and moves the trigger ends D<sup>2</sup> of the levers into position to strike the trigger E and to thereby release it from the hammer F and explode the cartridge.

What I claim, and desire to secure by Let-

35 ters Patent, is—

1. In a device of the kind described the combination of a case consisting of a main body and a back plate, said main body having an interior wall adapted to engage and 40 support the head of a cartridge; with a latch slidable in said case and adapted to be moved therein by a key and by a striking-plate; a pair of double-ended levers pivotally supported on said latch and movable therewith; a key insertible in said case adapted to move said latch and levers; an eccentric pivotally supported in said case and adapted to engage and raise said levers; a spring-pressed trigger pivotally supported in said case, said 50 trigger being adapted to be engaged and moved by one or both of said levers; a hammer pivotally supported in said case, said hammer having a spring-pressed arm, a lip adapted to be engaged by said trigger and a 55 head adapted to strike and explode a cartridge; a cartridge-holder pivotally supported in said case and having a barrel adapted for the support of said cartridge in contact with said wall in said case and thereby 60 adapted to be exploded by said hammer as described.

2. In a device of the kind described the

combination of parts consisting of a main body and back plate forming a case; an interior wall in said main body; a latch sup- 65 ported in said case and slidable therein as described; a double-ended lever pivotally supported on said latch; a key adapted to move said lever and latch; an eccentric supported in said case adapted to be moved and to en- 70 gage and raise said lever; a spring-pressed trigger pivotally supported in said case and adapted to be moved by said lever; a hammer pivotally supported in said case having a spring-pressed arm, a lip adapted for en- 75 gagement with said trigger and a head adapted to extend through said wall in said case and to thereby strike and explode a cartridge; a cartridge-holder pivotally supported in said case adapted to hold said cartridge 80 in contact with the said wall in said case and thereby adapted to be exploded by said hammer as described.

3. In a device of the kind described the combination consisting of a case having an 85 interior wall; a latch slidably supported in said case; a plurality of double-ended levers pivotally supported on said latch; a striking-plate adapted to move said latch; a key adapted to move said levers and said latch; a 90 spring-pressed trigger supported in said case adapted to be moved by one or more of said levers; a spring-pressed hammer pivoted in said case, said hammer having a lip adapted to be engaged by said trigger and a head 95 adapted to strike a cartridge in contact with said wall in said case; a cartridge-holder pivotally supported in said case and adapted to hold said cartridge in contact with said wall.

4. In a device of the kind described, the roo combination comprising a case having an internal wall adapted to engage the head of a cartridge and to resist its movement when it is exploded in said case against said wall; a latch slidably supported in said case and a 105 double-ended lever or levers pivotally supported on said latch and movable with it, said latch and lever or levers being adapted to be moved in said case by a striking-plate affixed on the frame of a door and adapted to 110 engage said latch, and by a key insertible in said case; a striking-plate and a key as described; a spring-pressed trigger movable by said lever or levers; a spring-pressed hammer in said case adapted to be held and re- 115 leased by said trigger and to strike and explode a cartridge in contact with said wall in said case; means for holding a cartridge against said wall, as and for the purposes described.

CHARLES W. KUEN.

Witnesses:

Thomas J. Morgan, Joseph Staab.