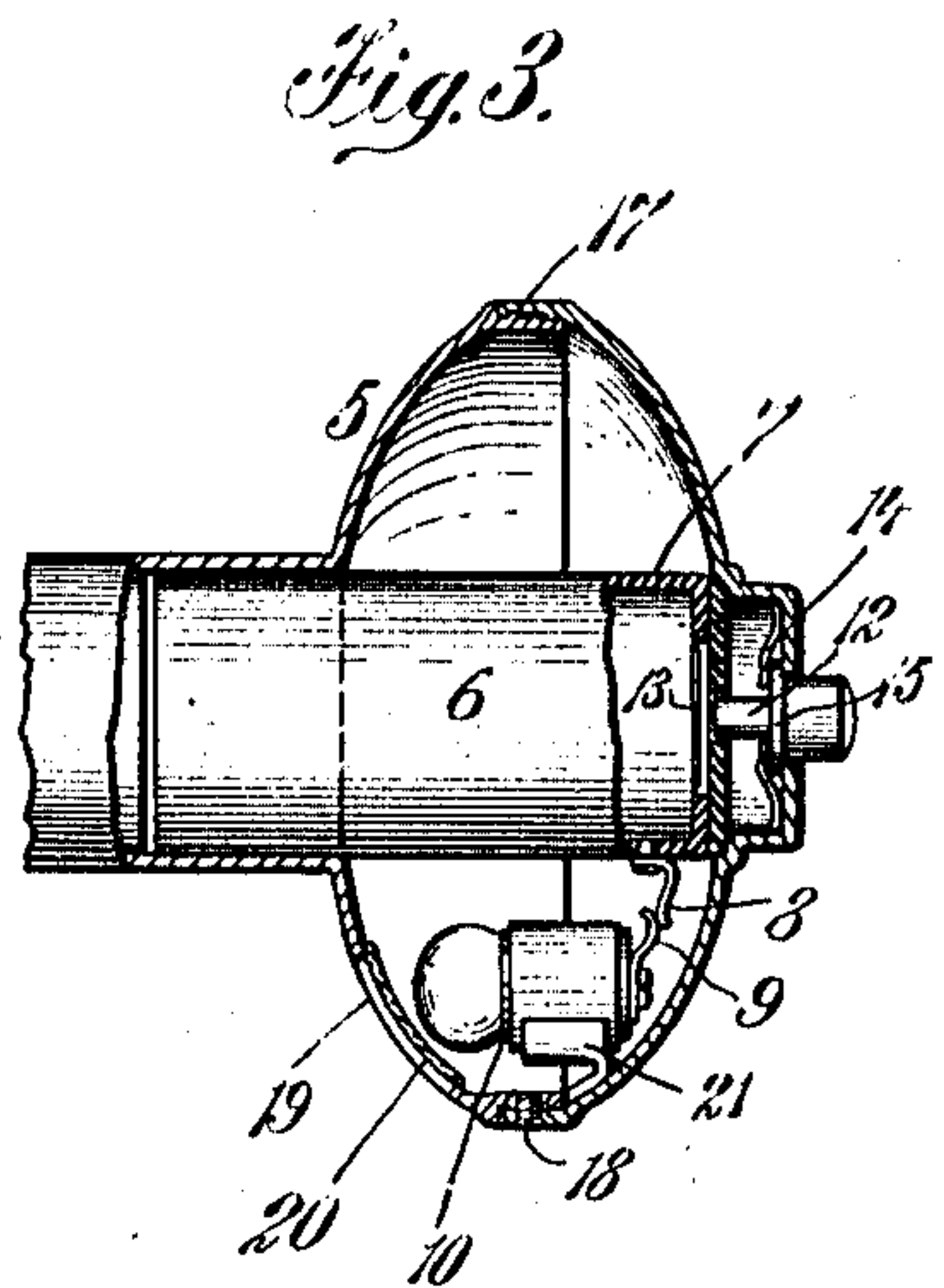
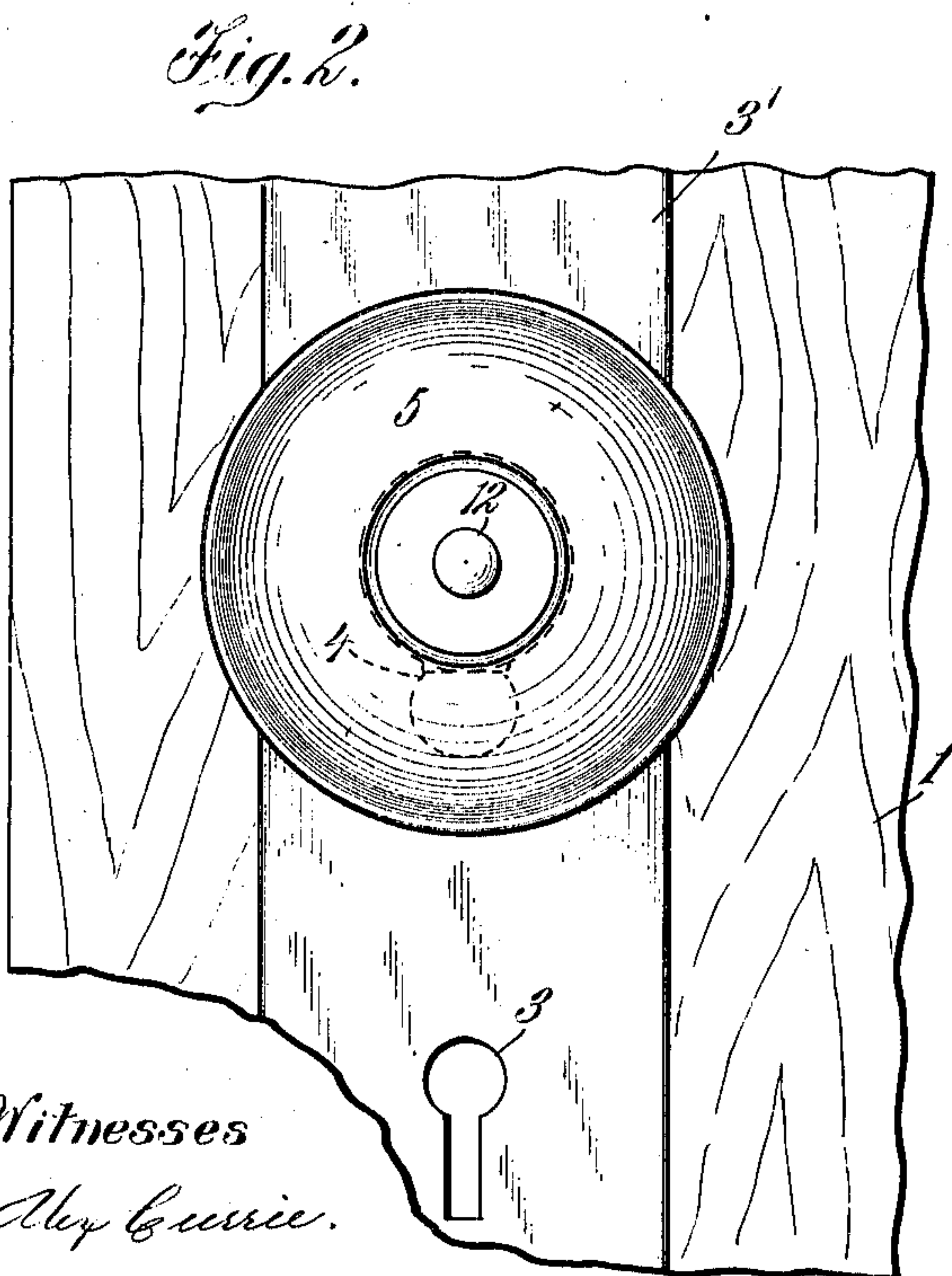
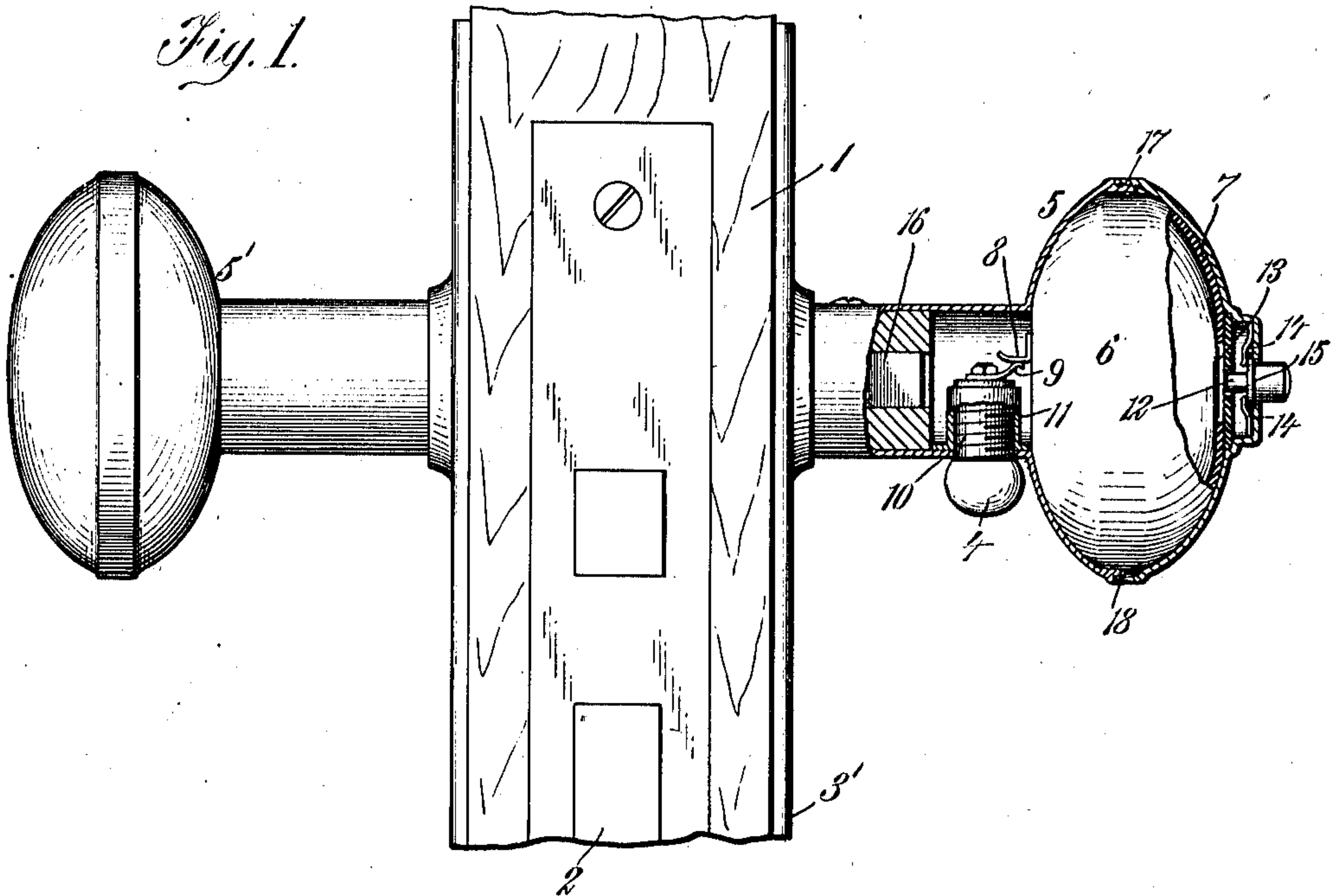


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KEYHOLE ILLUMINATING DEVICE.  
APPLICATION FILED JUNE 2, 1910.

970,698.

Patented Sept. 20, 1910.



Witnesses  
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# UNITED STATES PATENT OFFICE.

CHARLES EYTON, OF LOS ANGELES, CALIFORNIA.

## KEYHOLE-ILLUMINATING DEVICE.

970,698.

Specification of Letters Patent. Patented Sept. 20, 1910.

Application filed June 2, 1910. Serial No. 564,695.

*To all whom it may concern:*

Be it known that I, CHARLES EYTON, a subject of the King of Great Britain, residing at Los Angeles, in the county of Los Angeles, State of California, have invented a certain new and useful Keyhole-Illuminating Device; and I do hereby 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.

This invention relates to a keyhole illuminating device, being primarily intended to be applied to the front, or street, doors of houses, cottages or other residences.

The invention has for an object to provide an electric illuminating device whereby the keyhole in a door may be illuminated at will and in which the electric current may be switched on and off with a minimum of trouble.

Another object of the invention is to provide an arrangement of parts which is simple and easily applied to a door and in which the lamp or illuminating device proper is located in a position to minimize the risk of its being broken or damaged in any way.

The invention may be said to consist essentially of the construction, arrangement, and combination of parts whereby the above mentioned objects are attained, as will appear from the description hereinafter, and as particularly pointed out in the claims.

Forms of construction embodying the invention are illustrated in the accompanying drawings, in which—

Figure 1 is an edge view of a portion of a door having the invention applied thereto; parts being broken away to more fully show the invention. Fig. 2 is a front view thereof, and Fig. 3 is a sectional elevation of a door knob, showing a slightly modified form of construction embodying the invention.

1 indicates the portion of a door in which the locking means, the bolt whereof is indicated at 2, Fig. 1, is located; the keyhole being indicated at 3, Fig. 2, and the door plate or escutcheon at 3'. The door proper and the locking means may be of any approved or desired type as they form no part of this invention.

In order that a person may be able to locate the keyhole after dark and insert the key therein without any trouble, an illuminating device is provided whereby the key-

hole may be illuminated, such illuminating device being preferably arranged to be electrically operated. As here shown the illuminating device may comprise a small electric lamp 4 located adjacent to the keyhole. To minimize the risk of injury to lamp 4 and at the same time to cause the rays of light to strike the keyhole at an angle so that the latter may be more readily located the lamp 4 may, as shown, be located on the inner portion of the outer door handle or knob 5, the inner knob being indicated at 5'; in which position, as will be readily seen, it will be protected by the knob from injury.

Suitable means may be provided for supplying electricity when desired to the lamp 4. To render the use of long conducting wires unnecessary and to make the device compact the door knob is preferably hollow and an electric battery, indicated at 6, is located therein; an insulating covering 7 being preferably placed over the battery and suitable electrical connections being provided between the battery and the lamp 4. As here shown one of the terminals 8 of the battery may be in the form of a spring contact member which engages with a second contact member 9 forming one of the terminals of the lamp 4. The other terminal of the lamp 4 may be formed as usual by the threaded part 10 thereon. Electrical connection between part 10 and the other terminal of the battery may be effected as follows. The part 10, which carries the lamp 4, is threaded into the socket 11 secured to the door knob in a manner to be in electrical contact therewith. A push button 12 may be mounted in the outer face of the knob and is adapted when pushed inwardly to make contact with the terminal, indicated at 13 of the battery. Springs 14, secured on the inside of the knob, normally hold the push button away from the terminal, such springs being in electrical connection with the knob and bearing against an enlarged portion 15 of the button so that by this means the push button is always in contact with the knob and forms a switch by which the current may be supplied at will to the lamp 4. When the switch is closed a circuit is closed through battery terminal 8, light terminals 9 and 10, knob 5, and button 12 to terminal 13.

The advantages of the above arrangement of parts as respects convenience of operation will be apparent, while at the same time



the application of the invention to a door already in use will be rendered very easy as none of the parts thereof will have to be changed with the exception of the knob 5 which can be readily removed from the shank 16 and a knob provided with the illuminating device secured in its place.

To permit of the parts being easily removed when necessary as in case of re- 10 newal, the knob may be formed in two parts joined together by the threaded connection 17, a screw 18 being provided to lock the parts against rotation relatively to one another.

15 In Fig. 3 a slightly modified form of construction is illustrated in which the lamp 4 is located entirely within the knob, the battery 6 being of sufficiently small cross section to permit of the bulb being mounted 20 inside the knob. The socket 10 may be secured to the knob in any desired manner as by the bracket 21. An opening 19, which may be closed by a plate 20 of glass or other transparent material, is provided in the 25 knob adjacent to the lamp 4 to admit of the light from the latter reaching the keyhole.

It will be evident of course that various changes and modifications might be made in the construction illustrated and the right 30 is therefore reserved to all such changes and modifications as do not depart from the spirit and scope of the invention.

I claim:

35 1. In combination with a door lock having a keyhole therein and a hollow door knob, an electric illuminating device mounted on said door knob, an electric battery disposed in the door knob, and electrical connections connecting the battery with the 40 illuminating device, including a pair of resilient contact members disposed one on the illuminating device and one on the battery adjacent thereto and in contact therewith.

2. In combination with a door lock hav-

ing a keyhole therein and a hollow metallic 45 door knob, an electric illuminating device mounted on the door knob, an electric battery disposed in the door knob and having a pair of terminals, an insulating covering on said battery, a resilient contact member 50 forming one of the terminals of the illuminating device and disposed adjacent to and in contact with one of the battery terminals, a threaded part forming one of the other 55 terminals of the illuminating device, a socket into which said part is threaded, said socket being in electrical connection with the door knob, and a push button located adjacent to the other battery terminal and in electrical connection with the door knob. 60

3. In combination with a door lock having a keyhole therein, a hollow metallic door knob, provided with glass covered aperture, an electric illuminating device dis- 65 posed within the door knob adjacent to the aperture, an electric battery disposed in the door knob and having a pair of terminals, a resilient contact member forming one of the terminals of the illuminating device and disposed adjacent to and in contact with one 70 of the battery terminals, a threaded part forming one of the terminals of the illuminating device, a socket into which said part is threaded, said socket being in electrical connection with the door knob, and a push 75 button located adjacent to the other battery terminal and in electrical connection with the door knob.

In testimony whereof, I have signed my name to this specification in the presence of 80 two subscribing witnesses at Los Angeles, in the county of Los Angeles, State of California, this 28th day of May A. D. 1910.

CHARLES EYTON.

Witnesses:

HARRY A. BROOKS,  
ALEX CURRIE.