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KEYHOLE ILLUMINATOR

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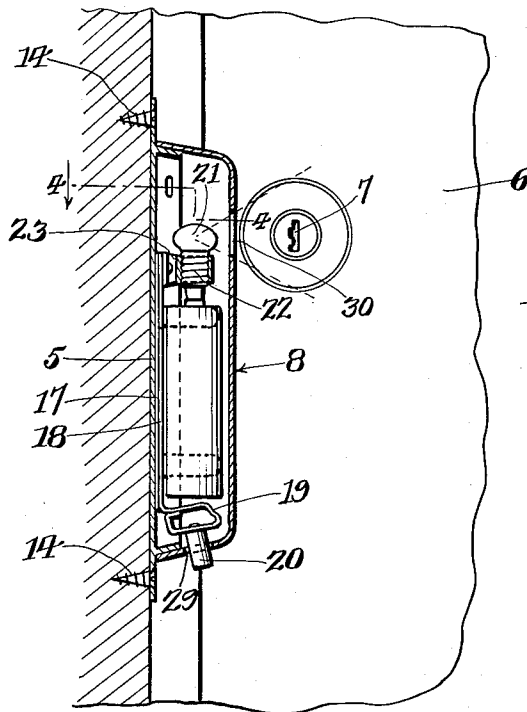


Fig. 1.

Fig. 2.

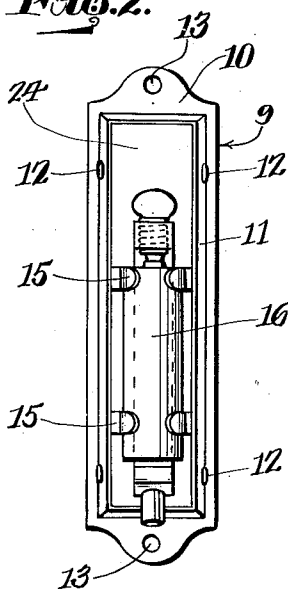


Fig. 3.

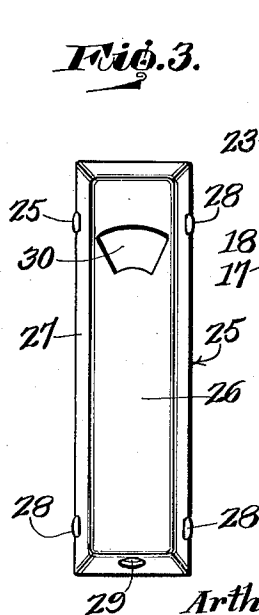
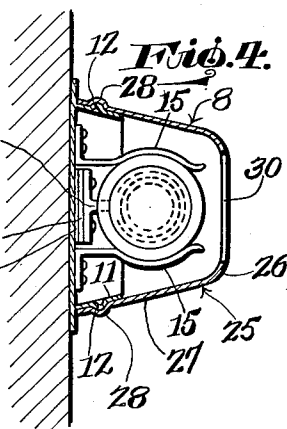


Fig. 4.



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KEYHOLE ILLUMINATOR

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2 Claims. (Cl. 240—2.13)

This invention relates to a key-hole illuminating device, and has for its object to provide, in a manner as hereinafter set forth, a normally inactive device of the class referred to for anchoring in juxtaposition to a key-hole opening and functioning, when active, to illuminate such opening whereby the position of the latter may be quickly determined to enable one to expeditiously insert a key into a latch or lock.

Further objects of the invention are to provide, in a manner as hereinafter set forth, a device of the class referred to which is simple in its construction and arrangement, strong, durable, readily installed with respect to a key-hole, thoroughly efficient for the purpose intended thereby, conveniently made active, and inexpensive to manufacture.

To the above ends essentially, and to others which may hereinafter appear, the invention consists of such parts, and such combination of parts which fall within the scope of the invention as claimed.

In the drawing:—

Figure 1 is a fragmentary view in elevation of a door frame and a door, the latter being provided with a key-hole opening and showing the installation of the device, in accordance with this invention with respect to said opening. The device being illustrated in vertical section.

Figure 2 is a front elevation of the device with the cover element removed.

Figure 3 is a front elevation of the cover element.

Figure 4 is a section on line 4—4 of Figure 1.

In the drawing one side of a door frame is designated 5 and a door at 6. The door 6 has a key-hole 7. The device, generally indicated at 8, is to be anchored to the side 5 of the door frame and is so shown. The position of the device 8 relative to the opening 7 is such, that when it is active, it will reflect a light beam at right angles to the frame side 5 and across the opening 7.

The device 8 includes a shallow open front rectangular receptacle 9 consisting of a vertically disposed back wall 10 having formed integral with and lengthwise of its front face a skeleton tapered rectangular body 11 spaced from the side and top and bottom edges of wall 10. Each side of body 11 is formed with spaced outset parts 12 constituting the inner elements of a coupling means to be referred to. The upper and lower ends of the wall are formed with openings 13 for the passage of holdfast devices 14 to anchor receptacle 9 against the frame side 5.

Secured to the front face of wall 10 are superposed spaced pairs of spaced resilient clamping members 15. The members of each pair are oppositely disposed. The members 15 are surrounded by and spaced from the sides of body 11. The members 15 project forwardly from wall 10 and function to detachably suspend a storage battery 16 within the device and in spaced relation to the sides and ends of the body 11. The battery 16 extends beyond the front edge of body 11. A strip of conducting material 17 is secured to the front face of wall 10 between the pairs of clamping members 15. The strip 17 extends above the upper pair and depends below the lower pair of clamping members 15. The strip 17 is of greater length than battery 16 and extends above and depends below the latter. Secured to the front face of strip 17 is a conducting member 18 which is flush with the upper end of strip 17 and has its lower end formed of a forwardly extending resilient part 19 carrying a push button 20. The part 19 constitutes a contact to engage the bottom of battery 16 to close a lighting circuit for a lamp 21. The part 19 is normally clear of the bottom of battery 16.

Electrically connected to the battery 16 is a socket forming member 22 of conducting material which receives the plug of lamp 21. The member 22 is fixed to a holder 23 therefor. The holder 23 is formed of conducting material and is secured to and electrically connected to the upper end of the conducting member 18.

That portion of the forward face of wall 10 indicated at 24 is highly polished and constitutes a reflector. The lamp 21 opposes in spaced relation the said portion 24 of the front or forward face of wall 10.

The device includes a cover element 25 for closing the open front of the receptacle 9. The element 25 includes a front 26 and a flared rim 27 having each of its sides provided with spaced outset parts 28 which coact with the outset parts 12 to provide pairs of frictional coupling means for latching the element 25 to the receptacle 9. The element 25 is of rectangular contour and when in closing position completely envelopes body 11, as well as extends outwardly from the latter.

The push button 20 is arranged forwardly of the outer edge of body 11. The lower end of element 25 is formed with an opening 29 for the passage of button 20, the latter is disposed at an outward inclination and extends beyond the outer end of opening 29.

The front 26 of element 25 in proximity to its upper end is formed with a segmental shaped slot 30 for the passage of the light rays from the lamp 21. When the device is anchored to the door side 5, the slot 30 is to align with the key opening 7. The device is of a depth, that when secured in position the front 26 of element 25 will be arranged in close proximity to the key opening 7. The device is normally in an inactive position, as the resilient part 19 of conducting member 18 is normally clear of the bottom of the battery. When part 19 is shifted inwardly to contact with the bottom of battery 16 or a contact in said bottom, the lighting circuit will be closed and lamp 21 made active.

What I claim is:

1. An illuminating device for the purpose set forth, comprising a shallow open front receptacle adapted to be anchored to a surface; spaced resilient battery clamping means anchored to the front face of the back wall of said receptacle, and extending forwardly from the latter, a battery supported in said means, a non-con-

ducting strip secured to the front face of said wall between the battery and the wall, a conducting member secured to said strip throughout the forward face of the latter and having a forwardly disposed resilient part extending beyond one end of said strip, said part normally spaced from said battery and carrying a push button whereby it may be moved into contact with one pole of the battery, a lamp socket carried by the other end of said strip, a lamp in the socket engaging the other pole of the battery, and a closure for the open front of said receptacle, said closure being formed with an aperture aligned with said lamp and an opening for the passage of the push button.

2. A device as defined in claim 1, in which said receptacle is of tapered contour in cross-sections, said closure being of similarly tapered contour, and completely encompassing said receptacle, said receptacle and said closure having co-acting resilient locking means.

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