

D. W. WEED.
NIGHT LATCH.
APPLICATION FILED NOV. 7, 1911.

1,017,238.

Patented Feb. 13, 1912.

Fig. 1.

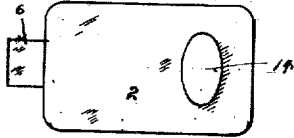


Fig. 2.

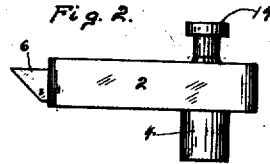


Fig. 3.

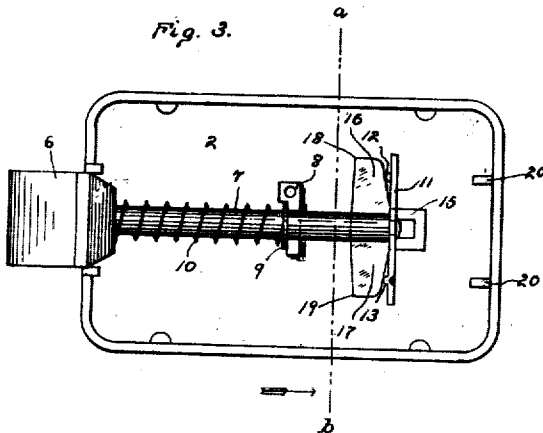


Fig. 6.

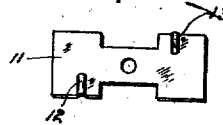


Fig. 7.

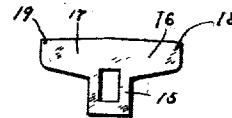


Fig. 5.

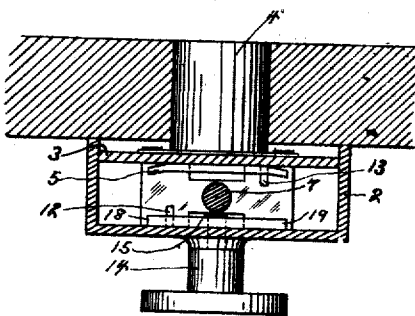
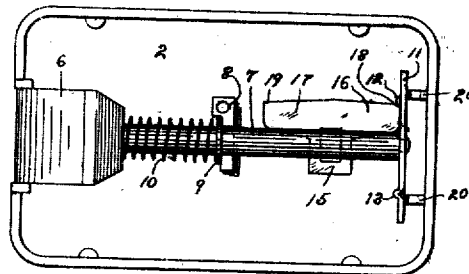


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

DAVID WALTER WEED, OF TERRYVILLE, CONNECTICUT, ASSIGNOR TO EAGLE LOCK CO., OF TERRYVILLE, CONNECTICUT, A CORPORATION.

NIGHT-LATCH.

1,017,238.

Specification of Letters Patent.

Patented Feb. 13, 1912.

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To all whom it may concern:

Be it known that I, DAVID WALTER WEED, a citizen of the United States, residing at Terryville, in the county of Litchfield and State of Connecticut, have invented a new and useful Improvement in Night-Latches; and I do hereby declare the following, when taken in connection with the accompanying drawings and the characters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of the specification, and represent, in—

Figure 1 a front view of a knob latch constructed in accordance with my invention. Fig. 2 an edge view of the same. Fig. 3 a side view of my improved latch with the cap removed, and on a larger scale than Figs. 1 and 2. Fig. 4 a similar view with the latch in its retired and locked position. Fig. 5 a sectional view on the line *a—b* of Fig. 3. Fig. 6 a perspective view of the latch spindle plate detached. Fig. 7 a perspective view of the knob lever detached.

This invention relates to an improvement in night latches, that is, latches which may be operated by a key from the outside of the door or operated by a knob on the inside of the door, and particularly to latches in which when the knob is turned in one direction it will retire the latch and hold it in its retired position; the object of the invention being a simple arrangement of parts whereby this result is accomplished; and the invention consists in certain details of construction and combination of parts as will be hereinafter described and particularly recited in the claims.

In carrying out my invention, I employ the usual casing 2 closed at one side by a cap 3 carrying a key cylinder 4 through which the key lever 5 may be operated as in the usual manner. Within the casing and so as to project through one end thereof is a latch bolt 6 having the usual spindle 7 which passes through a bearing 8 formed integral with the casing and loosely mounted

on the spindle is a washer 9 which is supported against the bearing 8 and between which and the bolt head 6 is a spiral spring 10. On the end of the spindle 7 is a plate 11 forming an essential part of my invention. This plate 11 is formed at one side near one edge with a lug 12, and at the opposite side in the other edge with a lug 13 for the purpose as will hereinafter appear. Secured to the knob 14 within the case is a knob lever 15 having arms 16 and 17 formed with sharp corners 18 and 19, which arms are adapted to co-act with the plate 11. If, now, the knob be turned in one direction and so that the end 17 of the knob lever 15 comes in contact with the plate 11 it will retire the latch, but will not hold it in its retired position; and when the knob is released the spring will throw the bolt forward. The rearward movement of the latch is limited by stops 20 at the rear of the case and so that the knob lever 15 cannot be turned completely around. If, however, the knob is turned in the opposite direction and as shown in Fig. 4 of the drawings, the arm 16 will engage with the plate 11, and as the plate is moved rearward will pass beyond the lug 12 and so that the corner 18 will engage with the lug and lock the lever in its turned position, and hence lock the bolt in its retracted position. If the latch is reversed in position, the lug 12 will be in position to be engaged by the knob lever and hence lock the latch bolt in its retired position, as before described. It will be noted that owing to the stops in the case to limit the movement of the plate 11, the knob lever cannot be turned into a horizontal position.

I claim:—

1. The combination in a knob latch, of a bolt having a spindle, a plate secured to the inner end of said spindle, said plate provided with a stop-lug at one side, and a knob lever having two arms one of which will engage with said lug whereby the latch bolt may be locked in its retired position.
2. The combination in a knob latch, of

a bolt having a spindle, a plate secured to the inner end of said spindle, said plate provided on opposite sides and in opposite edges with lugs, and a knob lever one arm of which is adapted to engage with one of the lugs, whereby the latch bolt is locked in its retired position.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

DAVID WALTER WEED.

Witnesses:

OTIS B. HOUGH,
HARRY C. CLOW.