

(No Model.)

W. L. MAGEE, Dec'd.

R. N. MAGEE, Administrator.

NUT LOCK.

No. 466,793.

Patented Jan. 12, 1892.

Fig. 1

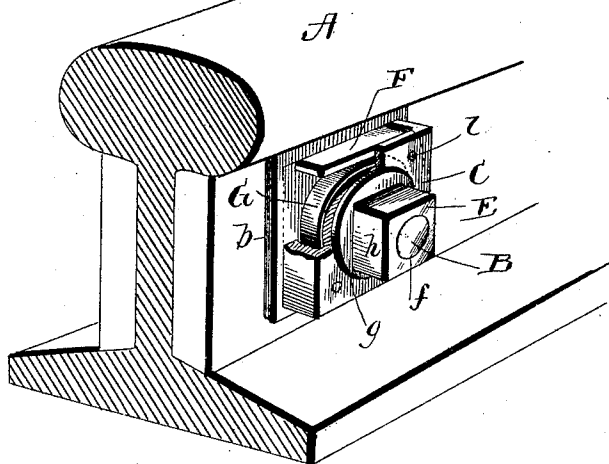


Fig. 2

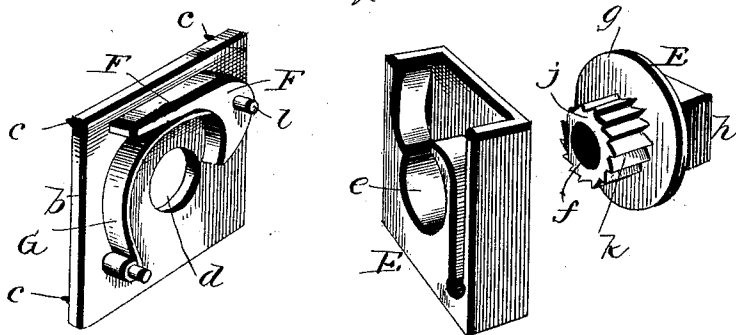
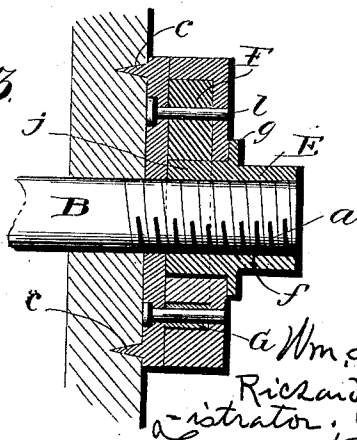


Fig. 3



Witnesses  
C. J. Williamson.  
P. J. Rogers.

Inventor.  
Wm. L. Magee, deceased  
Richard N. Magee admin-  
istrator, by  
Franklin D. Hough  
att.

# UNITED STATES PATENT OFFICE.

RICHARD NEEDHAM MAGEE, OF GOLDEN, TEXAS, ADMINISTRATOR OF  
WILLIAM LEONARD MAGEE, DECEASED.

## NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 466,793, dated January 12, 1892.

Application filed July 23, 1891. Serial No. 400,427. (No model.)

*To all whom it may concern:*

Be it known that I, RICHARD NEEDHAM MAGEE, a citizen of the United States, residing at Golden, in the county of Wood, in the State of Texas, (administrator of the estate of WILLIAM LEONARD MAGEE, deceased,) represent that the said WILLIAM L. MAGEE did invent a new and useful Improvement in Nut-Locks, of which the following is a specification.

10 This invention relates to certain new and useful improvements in nut-locks of that class wherein a ratchet and pawl is employed to prevent retrograde movement of the nut after it has once been turned up into the desired position.

15 The invention has for its objects, among others, to provide an improved nut-lock of this character which shall be simple, durable, cheap, and efficient, and in which the ratchet and pawl shall be so protected or covered as to guard them against injury or dust and dirt, and to provide a casing within which the pawl is arranged, the said pawl being acted upon by a spring arranged within the case and the pawl being so arranged that a portion thereof shall be accessible from the outside of the case, whereby it may be actuated to disengage the pawl from the ratchet and thus permit of the removal of the nut when desired.

20 The nut is formed with an interior thread to engage the threads of the bolt and with an inwardly-extending boss provided with ratchet-face and a collar to limit its inward movement, and upon the other side of the collar it is provided with a squared or other shaped portion to receive a wrench or other instrument, whereby it may be turned. The casing is formed with projecting pins or points designed to engage depressions or holes in the face-plate or to embed themselves into the wood in case they are employed in connection with a wooden plate or strip.

25 Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be specifically defined by the appended claim.

30 The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a perspective view showing the invention with a portion of the case broken away. Fig. 2 is a perspective view of the different parts of the invention shown detached, but in their relative positions. Fig. 3 is a cross-section taken through the pivot of the pawl diagonally across the case.

Like letters of reference indicate like parts throughout the several views in which they occur.

Referring now to the details of the drawings by letter, A designates the rail of known construction, and B is a bolt passed through an opening therein and provided with screw-threads *a*, as shown. Fish-plates may be employed, if desired, or they may be omitted.

C is the case, which is provided with a flanged portion *b*, which is preferably provided upon the face which comes next the rail with prongs or projections or analogous provisions *c*, as seen, which are designed to enter depressions in the fish-plates when such are employed, or into like depressions in the rail when fish-plates are not used. If wooden plates are used, the prongs or projections will embed themselves therein as the parts are screwed up. The case is substantially square and has an opening at the rear side, as shown at *d*, for the passage of the bolt, and at its outer face provided with a larger opening *e* for the insertion of the nut. The nut E is formed with a central screw-threaded opening *f* and with a collar or flange *g*. Outside this collar or flange there is a square or other shaped portion *h*, designed to receive a wrench or other tool by which it may be turned, and upon the other or inner side of this collar or flange there is a round portion *j*, which is provided with teeth *k* to form a ratchet with which the pawl engages. The pawl F is pivoted within the case at one corner on a pivot *l*, with the engaging end of the pawl so arranged as to engage the ratchet of the nut, the other arm of the pawl forming one side of the case, as shown. The arm of the pawl forming the side of the case is acted upon by a spring G, which is confined within the case in any suitable manner, as by the pins *m*, which serve also to strengthen the case.

The operation will be apparent. The bolt

is passed through the hole in the rail. The case is then slipped over the bolt and the nut then applied. The nut is screwed onto the bolt, the pawl permitting this being done; but the spring pressing upon the arm of the pawl holds it in engagement with the ratchet and prevents retrograde movement of the nut. When it is desired to remove the nut, the arm of the pawl is pressed inward against the action of the spring which disengaged the pawl end from the ratchet. It will be seen that a double means of holding the nut is employed (the screw - thread engagement) between the nut and bolt and the ratchet - and - pawl mechanism, thus forming a very efficient hold upon the nut against loosening.

The parts are readily assembled, cheap of manufacture, not liable to get out of order, and in practice have proved most efficient for the purpose for which they are designed.

What is claimed as new is—

The combination, with the case having a

flanged portion provided with projections and bolt-opening and chamber for the pawl and its spring, of the nut formed with central screw-threaded opening, a flange, a polygonal portion upon one side of said flange and a toothed circular portion upon the other side of said flange, the pawl pivoted within the case with its inner end arranged to engage the ratchet and the other arm forming one side of the case and a spring confined within the case held upon one end upon a pin and the other end bearing on the pawl near its pivot, substantially as described.

In testimony whereof I have hereunto signed my name in full in the presence of two witnesses.

RICHARD NEEDHAM MAGEE,  
*Administrator of William Leonard Magee,*  
*deceased.*

Witnesses:

JAS. MCLESTER,  
G. W. COWAN.