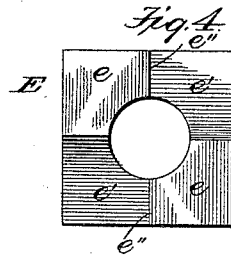
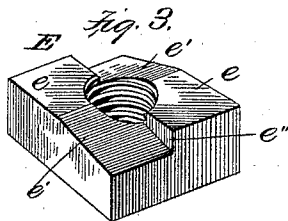
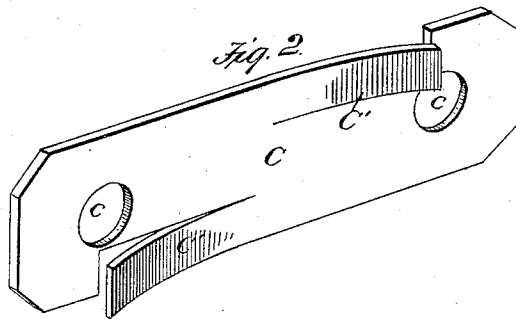
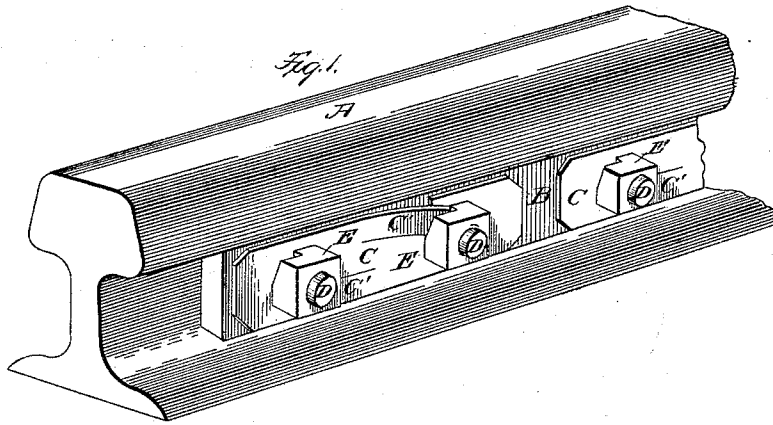


(No Model.)

N. P. GARRETT.
NUT LOCK.

No. 474,380.

Patented May 10, 1892.



Witnesses
J. Stansbury
E. B. Anderson

N. P. Garrett
Inventor

By *D. Miller & Co.*
Attorneys

UNITED STATES PATENT OFFICE.

NOAH PRESIDENT GARRETT, OF COVINGTON, TENNESSEE.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 474,380, dated May 10, 1892.

Application filed February 1, 1892. Serial No. 419,933. (No model.)

To all whom it may concern:

Be it known that I, NOAH PRESIDENT GARRETT, a citizen of the United States, residing at Covington, in the county of Tipton and State of Tennessee, have invented certain new and useful Improvements in Nut-Locks; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to a new and useful improvement in nut-locks; and it consists in the construction, combination, and arrangement of parts, hereinafter described, and afterward definitely pointed out in the claim.

The nature of my invention consists in forming leaf-springs in a plate or washer, said springs being adapted to engage a shoulder on the under face of the nut, the shoulders on the under face of the nut being formed by cam-surfaces tangent to the bolt-opening. This object I obtain by the construction illustrated in the accompanying drawings, forming a part of this specification, wherein like symbols refer to like parts wherever they occur, and in which—

Figure 1 is a perspective view of a rail-joint with my improved nut-lock applied. Fig. 2 is a perspective view of the plate or washer from which the leaf-springs are struck. Fig. 3 is a perspective view of the nut inverted, and Fig. 4 is a bottom plan view of the same.

Referring to the drawings, A indicates the rail provided with the usual fish-plate B at the joint thereof.

C indicates a plate or washer adapted to be placed on the fish-plate, said plate or washer being provided with bolt-openings *c*, registering with the bolt-openings in the fish-plate.

C' indicates leaf-springs struck up from the plate C, the ends of which are nearly opposite to the opening *c* and are bent up to present

a yielding surface to the impinging-nut when the same is screwed home.

D indicates the bolt, of any ordinary or approved construction.

E indicates the nut, having its lower surface *e* cut away, as at *e'*, to form cam-surfaces, thus forming shoulders *e''*, against which the end of the leaf-spring abuts, and the nut is prevented from becoming displaced. Should it be desired to remove the nut, it is only necessary to depress the free end of the leaf-spring out of engagement with the shoulder *e''* of the nut E, when the nut is free to rotate and can be unscrewed.

I am aware that heretofore ratchet-faced nuts have been combined with washers provided with projecting lips to engage the ratchet-face of the nut; but the objection to such construction is that when it is desired to unscrew the nut it is necessary to bend or twist the lip of the washer which abuts against the ratchet-face of the nut.

It is obvious that many minor changes in the construction and arrangement of the parts of my device can be made and substituted for those herein shown and described without in the least departing from the nature and principle of my invention.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

In a nut-lock, the combination, with the bolt and the nut provided with ratchets on its under face, of a continuous washer having longitudinal leaf-springs struck up from its side edges, said springs being parallel with each other, the free ends of which come opposite the bolts and are adapted to engage the ratchets on the under face of the nut, substantially as and for the purposes specified.

In testimony whereof I affix my signature in presence of two witnesses.

NOAH PRESIDENT GARRETT.

Witnesses:

W. H. FELZER,
J. C. ARCHER.