(No Model.)

L. ANDERSON.

NUT LOCK.

No. 419,596. Patented Jan. 14, 1890.

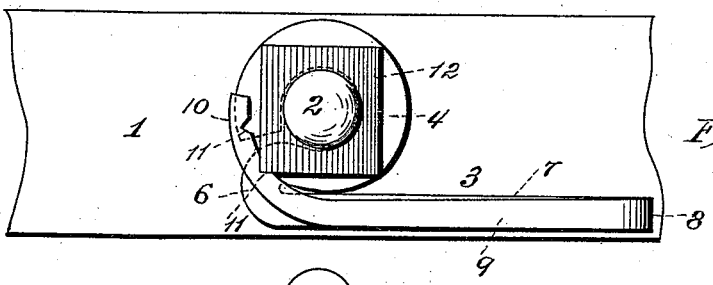

Fig. 1.

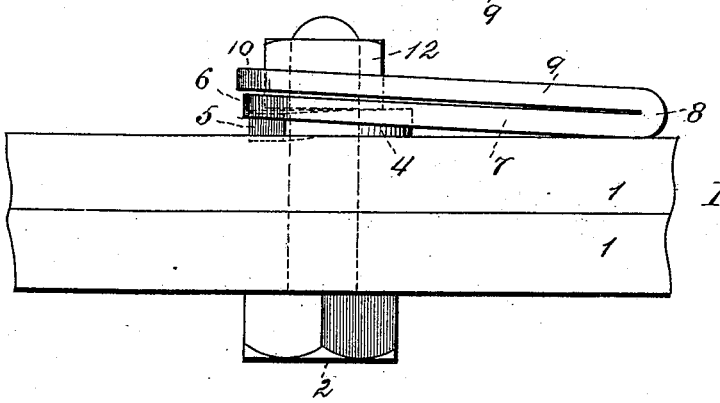

Fig. 2.

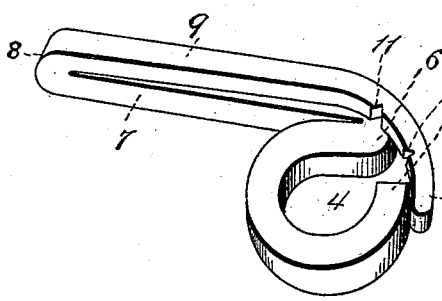

Fig. 3.

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UNITED STATES PATENT OFFICE.

LEE ANDERSON, OF PARIS, TEXAS, ASSIGNOR OF THREE-FOURTHS TO THOMAS BROAD AND THOMAS F. REILLY, OF SAME PLACE, AND GEORGE McMULLAN, OF FORT SMITH, ARKANSAS.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 419,596, dated January 14, 1890.

Application filed April 15, 1889. Serial No. 307,281. (No model.)

To all whom it may concern:

Be it known that I, LEE ANDERSON, a citizen of the United States, residing at Paris, in the county of Lamar and State of Texas, have invented certain new and useful Improvements in Nut-Locks; 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.

The invention has relation to nut-locks, and has for its object to produce a nut-lock which is simple in construction, efficient in operation, and which can be readily manipulated to release the nut without injury to the latter or the lock itself; and the invention consists in the construction and novel arrangement of parts, as hereinafter set forth, illustrated in the accompanying drawings, and pointed out in the appended claim.

In the drawings, Figure 1 is a top view of my improved nut-lock. Fig. 2 is a side view of same, and Fig. 3 a detail view of the lock.

In the above drawings I have shown the application of my improved nut-lock to a portion of a truss of a bridge, though it will be understood that said lock is adapted for use with equal facility for the various purposes for which such locks are used.

Referring to the drawings by number, 1 indicates a portion of a truss of a bridge; 2, the securing-bolt passing therethrough.

3 indicates my improved nut-lock, which, as shown, is constructed as follows:

In constructing the lock I employ a narrow piece of steel, and at one end thereof bend the same into the annular shape shown, forming an eye or loop 4 of a diameter sufficient to be placed over the threaded end of the bolt. The lock near the terminus of its curved portion is bent slightly downward, as shown at 5, for a purpose presently explained. At the point 6 the lock is bent to form a rearwardly-projecting straight portion 7, of a length about twice the diameter of the loop portion 4. Said straight portion 7 is bent upwardly at the point 8, then forwardly to form a straight portion 9, overlapping the portion 7, and terminating in a curve 10, against which, when the lock is in place, one edge or corner of the nut is adapted to bear, and at the point where said nut bears I provide the curve with a notch or notches 11, for the reception of the edge of the nut to prevent the same from accidentally turning.

Instead of the notches 11, a step or shoulder may be formed for the above purpose.

In applying the lock hereinbefore described the looped portion 4 is placed over the bolt, and the nut 12 then screwed upon the bolt until the point 5 is forced to bite into the plate 1. When the nut has been turned home, should one edge thereof not register with one of the notches 11, said lock is given a partial turn in order to cause the notch to engage the edge of the nut, whereby the latter is prevented from accidentally turning. During this partial revolution of the lock the straight portion 9 is, by reason of contact with the edge of the nut, caused to spring outwardly, thereby further serving to hold the nut in position.

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

The herein-described nut-lock, consisting of a strip of metal having the looped portion 4, adapted to embrace the bolt, and having the downwardly-bent spring portion or end forming a biting-edge 5, the rearwardly-extending straight portion 7, bent upward at the point 8 to form a bearing point or edge, which is also adapted, in conjunction with the edge 5, to grip the fish-plate, as described, the forwardly-extending straight spring portion 9 overlapping the straight portion 10, the inner curved edge of which lies in the path of the edge of the nut when the latter is turned upon the bolt, said portion 10 being adapted to spring laterally when said nut is turned, and V-shaped notches 11 in said curved portion to receive the edges of the nut, substantially as described.

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

LEE ANDERSON.

Witnesses:
JOE ALLEN,
CLARENCE G. HANCOCK.