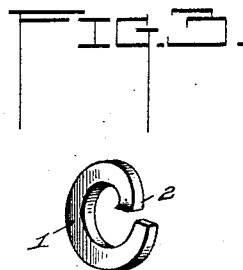
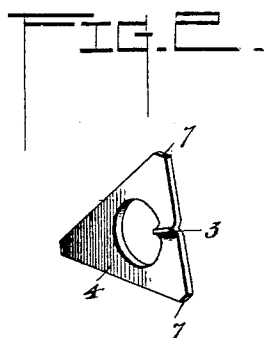
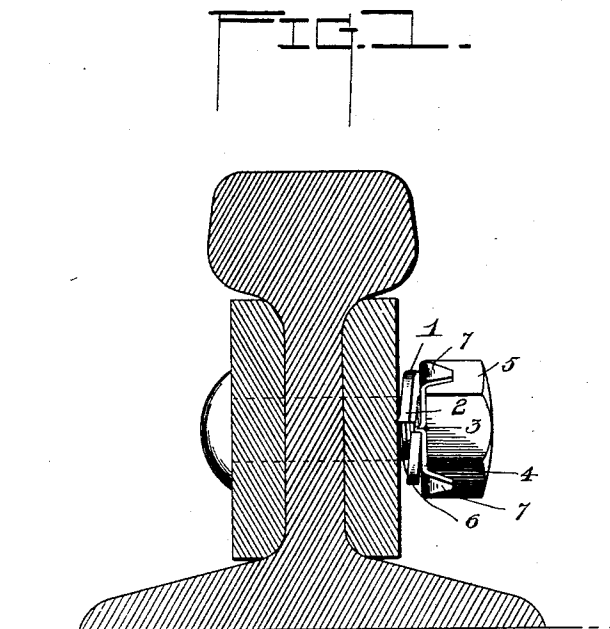


(No Model.)

R. S. WINGFIELD.
NUT LOCK.

No. 580,170.

Patented Apr. 6, 1897.



Inventor

Richard S. Wingfield.

Witnesses

W. L. Lane.

By his Attorneys,

J. F. Riley

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

RICHARD S. WINGFIELD, OF NEW ORLEANS, LOUISIANA.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 580,170, dated April 6, 1897.

Application filed January 12, 1897. Serial No. 618,995. (No model.)

To all whom it may concern:

Be it known that I, RICHARD S. WINGFIELD, a citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and useful Nut-Lock, of which the following is a specification.

The invention relates to improvements in nut-locks.

10 The object of the present invention is to improve the construction of nut-locks and to provide a simple, inexpensive, and efficient device adapted to be readily applied to ordinary bolts and nuts without altering the construction thereof and capable of securely locking a nut against accidental unscrewing.

15 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

20 In the drawings, Figure 1 is a side elevation of a nut-lock constructed in accordance with this invention. Fig. 2 is a detail perspective view of the locking-plate. Fig. 3 is a similar view of the spring-washer.

25 Like numerals of reference designate corresponding parts in all the figures of the drawings.

30 1 designates a spring-washer constructed of resilient metal and provided with a central bolt-opening. It is split radially to form two ends, which are bent slightly to offset them laterally from each other, and the lower or inner end 2 is provided with a projecting chisel edge to engage the adjacent surface.

35 The ends of the washer are slightly separated and are engaged by a projection 3 of a locking-plate 4, and the latter is provided with a central bolt-opening. The locking-plate is triangular, and the projection 3, which is arranged at one face of the locking-plate adjacent to the bolt-opening, is preferably formed by depressing the washer at the opposite face, as illustrated in the accompanying drawings.

40 The nut 5 is screwed on the bolt 6 tightly against the locking-plate, the projection of

which is forced by the bolt into the space between the ends of the spring-washer, and the pressure of the latter causes the chisel edge of the end 2 to bite into the adjacent surface. This locks the spring-washer against rotation, and the locking-plate by engaging the space between the ends of the spring-washer is locked to the latter. The nut is secured to the locking-plate by bending one or more of its corners 7 against the side faces of the nut. By this construction the nut is securely locked against accidental unscrewing, and as the locking-plate is constructed of malleable metal the upturned ends may be readily bent backward out of engagement with the nut when it is desired to remove the same from the bolt.

65 It will be seen that the nut is exceedingly simple and inexpensive in construction, that it is adapted to be readily applied to an ordinary bolt and nut without necessitating any alteration in the construction thereof, and that it is capable of preventing a nut from accidentally unscrewing.

70 It will also be apparent that the nut-lock is applicable to rail-joints, machinery, and other constructions where it is desirable to lock a nut against unscrewing.

What I claim is—

A nut-lock comprising a spring-washer having its ends bent and laterally offset, one of the ends being adapted to engage the adjacent surface, and an angular locking-plate having a bolt-opening and provided at its inner or lower face with a projection arranged to fit in the space between the ends of the resilient washer, whereby the plate and the washer are connected, said plate having its corners arranged to be bent up against the sides of a nut, substantially as and for the purpose described.

80 In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

RICHARD S. WINGFIELD.

Witnesses:

EDGAR WELSH,
F. B. METAYER.