





# UNITED STATES PATENT OFFICE.

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## NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 633,391, dated September 19, 1899.

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*To all whom it may concern:*

Be it known that we, ROBERT A. SCHOLLERER, Jr., and WENDELL STHAL, citizens of the United States of America, residing at  
5 Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Nut-Locks, of which the following is a specification, reference being had therein to the accompanying  
10 drawings.

This invention relates to certain new and useful improvements in nut-locks, and more particularly to that class employed for fastening railway-rails.

15 The invention has for its object to construct a nut-lock of the above-referred-to class that may be easily applied and readily removed when desired; furthermore, one that will be extremely simple in its construction, strong,  
20 durable, and comparatively inexpensive to manufacture.

The invention has for its further object to construct a nut-lock that is applicable to be used in conjunction with bolts and nuts of  
25 the ordinary and well-known construction.

With the above and other objects in view the invention finally consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described,  
30 and specifically pointed out in the claim.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, wherein like numerals of reference indicate corresponding parts throughout the several views thereof, and in which—

Figure 1 is a side elevation of two sections of a rail having applied thereto our improved nut-lock. Fig. 2 is a transverse vertical sectional view taken on the line 2 2 of Fig. 1. Fig. 3 is a similar view taken on the line 3 3 of Fig. 1. Fig. 4 is a horizontal longitudinal sectional view taken on the line 4 4 of Fig. 2. Fig. 5 is a detail view in perspective of the  
45 securing-plate. Fig. 6 is a plan and side view, respectively, of the key.

Referring to the drawings by reference-numerals, 1 indicates the rail; 2, the fish-plate; 3, the bolts, and 4 the nuts.

50 The reference-numeral 5 represents the securing-plate, having formed therein slots 6, said slots terminating at their one end in an annular opening 7.

The reference-numeral 8 represents a key, which is formed of a single piece of spring  
55 metal, said key having an annular head 9, with its ends bent outwardly and forming prongs 10.

In order to apply our invention as herein shown, the bolts are inserted through the web  
60 of the rail and fish-plates in the ordinary manner, the annular head 9 of the key 8 being adapted to encircle the bolt. The prongs 10 extend through the slots 6 of the securing-plate 5. The said prongs 10 also extend out-  
65 wardly and are bent over at an angle, so as to engage the sides of the nuts, thereby securely locking the same.

It will be noted that the annular opening 7 of the slots is of less diameter than the annu-  
70 lar head 9 of the key in order to retain the annular portion of the said key between the inner face of the securing-plate and the outer face of the fish-plate. In order to remove the nut, the prongs 10 may be easily bent in the  
75 opposite direction, which will allow the nut to be turned.

As shown in Fig. 1 of the drawings, the securing-plate 5 may be constructed so as to engage one nut and bolt of a series of nuts  
80 and bolts.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of our invention.

85 Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

A nut-lock comprising in combination with a bolt and nut, a securing-plate provided with  
90 oblong slots terminating at one end in an annular opening, and a key having an annular head adapted to encircle the bolt with its ends bent outwardly through the oblong slots to form prongs adapted to engage the sides of  
95 the nut, substantially as described.

In testimony whereof we affix our signatures in the presence of two witnesses.

ROBERT A. SCHOLLERER, JR.  
WENDELL STHAL.

Witnesses:

JOHN NOLAND,  
WILLIAM E. MINOR.