

(No Model.)

G. H. DYE.
NUT LOCK.

No. 599,554.

Patented Feb. 22, 1898.

Fig. 1.

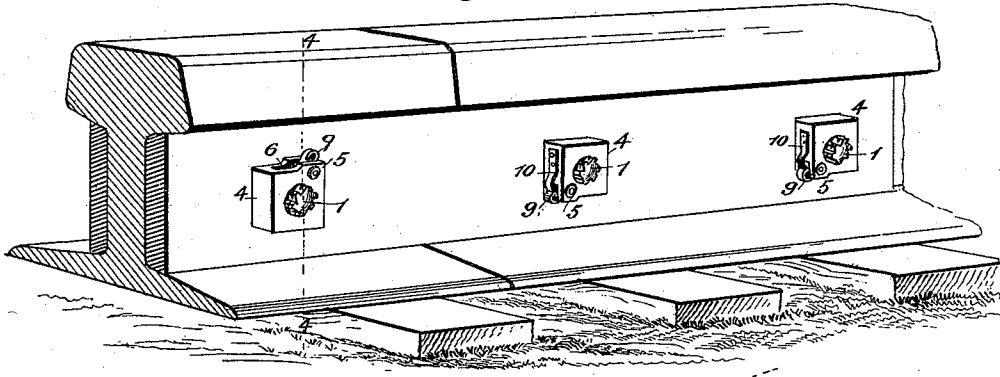


Fig. 2.

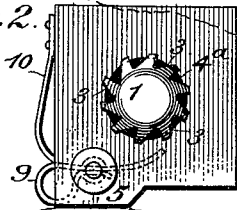


Fig. 3.

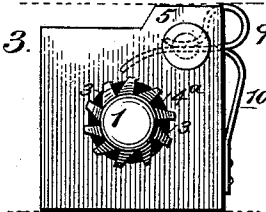


Fig. 4.

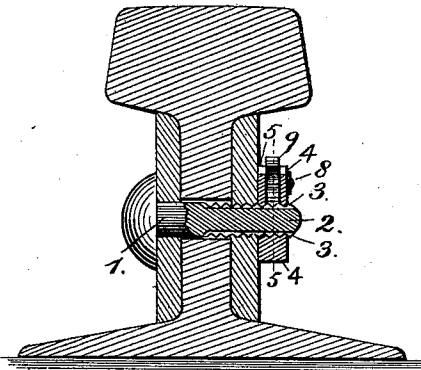


Fig. 5.

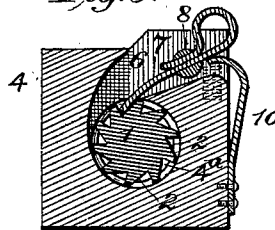
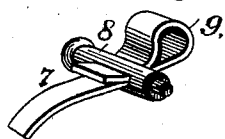


Fig. 6.



WITNESSES:

E. M. McCormick
R. M. Phelps

INVENTOR
G. H. Dye.

BY
Fred J. Dieterich & Co.
ATTORNEYS

UNITED STATES PATENT OFFICE.

GEORGE H. DYE, OF COMER, GEORGIA.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 599,554, dated February 22, 1898.

Application filed May 18, 1897. Serial No. 637,029. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. DYE, residing at Comer, in the county of Madison and State of Georgia, have invented a new and Improved Nut-Lock, of which the following is a specification.

My invention has for its object to provide a very simple easily-manipulated nut-lock; and such invention consists in a nut-lock embodying the peculiar combination and novel arrangement of parts, such as will be first described in detail and then specifically pointed out in the appended claim, reference being had to the accompanying drawings, in which—
Figure 1 is a perspective view of a portion of the meeting ends of two rail-sections with my improved nut-lock applied. Fig. 2 is a face view of the nut, showing the manner in which the same is turned by finger manipulation. Fig. 3 is a similar view showing how same is removed by means of a wrench. Fig. 4 is a transverse section taken practically on the line 4 4 of Fig. 1. Fig. 5 is a cross-section taken on the line 5 5 of Fig. 4. Fig. 6 is a view of the spring-dog hereinafter referred to.

Referring now to the accompanying drawings, in which like numerals indicate like parts in all the figures, 1 indicates the bolt, which has the usual threaded end 2, which end in the present form has a series of peripheral longitudinal ratchet-grooves 3.

4 indicates the nut, which may be of a square shape, as shown, or of a hexagonal or other polygonal shape, and which has the usual central threaded aperture 4^a to receive the threaded end of the bolt.

At one corner the nut is preferably formed with a slight projecting portion 5, and at such corner and extending rearwardly the nut has a chamber 6, in which is held to move the spring-dog or ratchet-finger 7, which engages the ratchet-grooves 3 in the bolt and prevents the nut turning backward thereon. This dog consists of a stout spring-plate, the upper end of which is fixedly connected to a pivot-bolt 8, held transversely of the chamber 6, and terminates in a loop 9, which normally projects above the projecting portion 5 for a purpose presently explained.

10 indicates a stout flat spring which is secured at one end to the edge of the nut, while its free end projects into engagement with the loop 9 in such a manner as to hold the dog 7 normally in engagement with the bolt.

While I have shown a flat spring 10 to hold the dog in engagement with the ratchet-grooves in the bolt, it is obvious the nut may have a seat to receive a coil-spring or rubber, as indicated in dotted lines in Fig. 5, to hold the said dog to its locking or normal position.

In practice the dog 7 has a pivotal point and loop end so disposed in the chamber 6 that when the loop is depressed to release the dog 7 from the bolt such loop will project down flush with the top of such projection 5, which projection, it will be noticed, has its upper edge flat, so that when the nut is to be removed by means of a wrench the jaw of the wrench will push the loop down below the upper edge of the projection 5, but will be held from unduly pressing down on the loop as it engages the flat upper edge of such projection.

When it is desired to remove the nut by hand, the manipulator presses the loop down by thumb force (see drawings) and then turns off the nut, it being obvious that in starting the nut on the bolt the loop must be depressed so the lower end of the dog will clear the bolt.

My invention is of an exceedingly simple and economical nature and can be readily applied to or detached from the bolt without the use of any special implement for such purpose, the arrangement of the lock-dog and the spring for holding same in engagement with the bolt being such that it will be impossible for the nut to wear loose by the jar caused by passing trains.

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

A nut and bolt lock, consisting of the bolt 1, a nut adapted to be fitted upon said bolt, one of the corners of said nut being slightly projected and provided with a rearwardly-extending chambered portion, a pivot-bolt passing through said chambered portion, said pivot-bolt being provided with an opening in

the portion of the bolt within the said chambered portion of the said nut, a looped spring-plate fitted within the said pivot-bolt opening, one end of said spring-plate being extended and adapted to engage with the bolt 1, and a spring attached to the said nut, adapted to normally hold the said looped

spring-plate in engagement with the end of said bolt 1.

GEORGE H. DYE.

Witnesses:

A. L. COMER,

R. H. B. GHOLSTON.