

(No Model.)

W. TURNER.
NUT LOCK.

No. 570,354.

Patented Oct. 27, 1896.

Fig. 1.

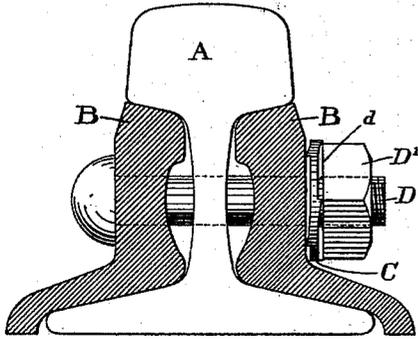


Fig. 2.

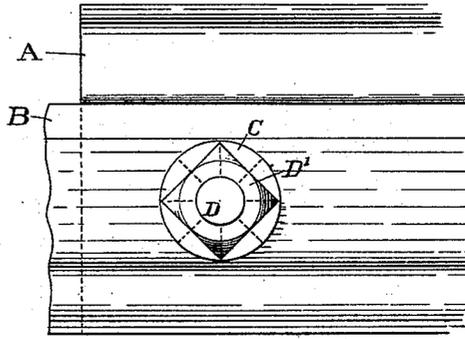


Fig. 3.

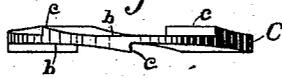


Fig. 4.

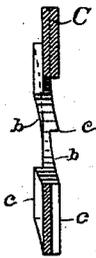
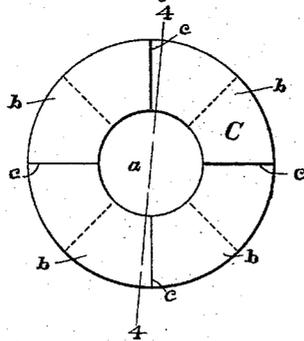


Fig. 5.



WITNESSES.

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UNITED STATES PATENT OFFICE.

WILLIAM TURNER, OF WILKINSBURG, PENNSYLVANIA.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 570,354, dated October 27, 1896.

Application filed May 12, 1896. Serial No. 591,234. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM TURNER, a citizen of the United States, residing at Wilkinsburg, in the county of Allegheny and State of Pennsylvania, 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.

My nut-lock consists of a washer provided with a number of spurs or projections on both sides thereof, the sharp edges of said spurs being arranged in a radial position with respect to the center of the washer, and the location of said spurs is such that those on one side of the washer are between those of the other side, and the surface of the washer between the adjoining spurs of each side is concave and of such form as to allow the washer to act as a spring when in use. These spurs are preferably formed with one edge somewhat less than or about at right angles to the general plane of the washer, the other side of said spurs being inclined at a lesser angle, after the fashion of saw-teeth. In use this washer is interposed between the surface of that part against which the bolt-nut would ordinarily bear and the lower surface of said bolt-nut, the spurs being designed so as to indent these two surfaces in such a way as to prevent the nut from turning backward on its bolt, as may be readily understood.

Having given this general description, I will now, in order to make my invention more clear, refer to the annexed sheet of drawings, in which like letters refer to like parts.

Figure 1 is a cross-section of a railway-rail joint, showing my nut-lock in position; and Fig. 2 is a side elevation of the same. Fig. 3 is a side elevation of my nut-lock. Fig. 4 is a cross-section of the same, taken on the line 4 4 of Fig. 5; and Fig. 5 is a plan view or front elevation.

In the different figures, A is a railway-rail;

B, a splice-bar; C, my nut-lock; D, the splice-bolt. D' is the nut of same, and *d* is the lower surface of the nut.

Referring now to Figs. 3, 4, and 5, *a* is a hole in the center of my nut-lock for the purpose of receiving the bolt. *c c c c* are the projecting spurs, and *b b b b* are the concave surfaces between said spurs.

In use my washer is placed on the threaded bolt after the usual fashion and the nut screwed down thereon. The pressure produced thereby causes the projecting spurs to slightly indent the lower surface of the nut and the other surface against which my nut-lock bears, in addition to which these portions of my nut-lock between the projecting spurs are deflected slightly out of their normal plane, and by their elastic reaction are at all times held in contact with the abutting parts, thus forming an efficient and permanent lock.

I am aware that ratchet-base washers have been used in nut-locks, and I therefore do not claim such broadly; but

What I do claim, and desire to secure by Letters Patent, is—

In a washer nut-lock, the combination of a series of spurs arranged equidistant from each other throughout one side, with their sharp edges radially located, said edges being formed by the intersection of a surface at or about right angles to the median plane of said washer, and a surface at a lesser angle thereto; similar spurs on the opposite side of said washer located between those of the first-named side, the adjoining spurs on each side being connected by concave surfaces, substantially as set forth.

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

WILLIAM TURNER.

Witnesses:

L. L. SWIFT,
W. B. RICE.