

G. NEILSON.

NUT-LOCK.

No. 189,642.

Patented April 17, 1877.

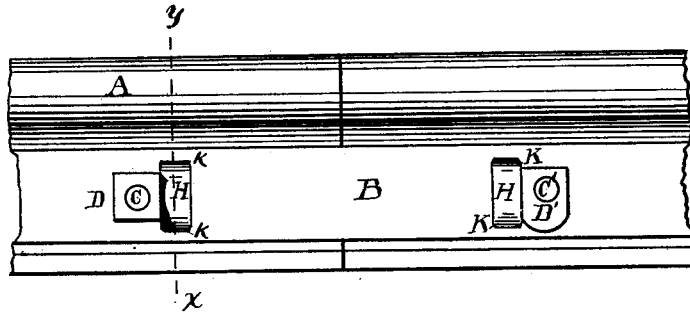


Fig. 1.

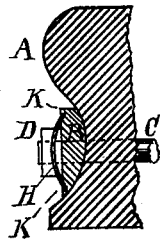


Fig. 2.

WITNESSES

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UNITED STATES PATENT OFFICE

GEORGE NEILSON, OF CHELSEA, MASSACHUSETTS.

IMPROVEMENT IN NUT-LOCKS.

Specification forming part of Letters Patent No. **189,642**, dated April 17, 1877; application filed February 20, 1877.

To all whom it may concern :

Be it known that I, GEORGE NEILSON, of Chelsea, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement on Nut-Locks for Bolts of Railways, &c., of which the following is a specification :

The nature of my invention consists in fastening the nut, so that it cannot turn, by means of a thin strip of metal, the ends of which are held by small inclined mortises made in the material through which the bolt passes, the said strip of metal being bent, so as to allow its ends to enter the mortises, while the middle part of it projects, and bears against the nut, and thus holds it from turning.

My invention now is particularly intended for railway uses, but has other applications.

Figure 1 is an elevation of my invention as applied to a railway-rail joint. Fig. 2 is a cross-section of the same taken on line *x y* of Fig. 1.

The rail is represented by A, and the piece by B. C and C' are the bolts, the nuts

of which are represented by D and D'. The locking device consists of a flat piece of metal, H, the ends of which are inserted into the small mortises K K. The metal H is bent as shown in Fig. 2, its center being curved outward, so as to rest against the side of the nut, and thus prevent it from turning.

The strip H is inserted by bending it so that both ends may be placed in the mortises. Then, by straightening the piece somewhat, the ends will bind in the mortises, and thus hold the strip securely in place.

Having now described the construction and operation of my invention, what I wish to secure by Letters Patent is the following :

The combination of the nut D and the bent strip H, having its ends inserted in the recesses K K of the fish-plate B, operating substantially as described, and for the purpose set forth.

GEORGE NEILSON.

Witnesses:

NATHL. EVANS,
WILLIAM EDSON.