

(No Model.)

J. W. PAYNE.
Nut Lock.

No. 229,175.

Patented June 22, 1880.

Fig. 1.

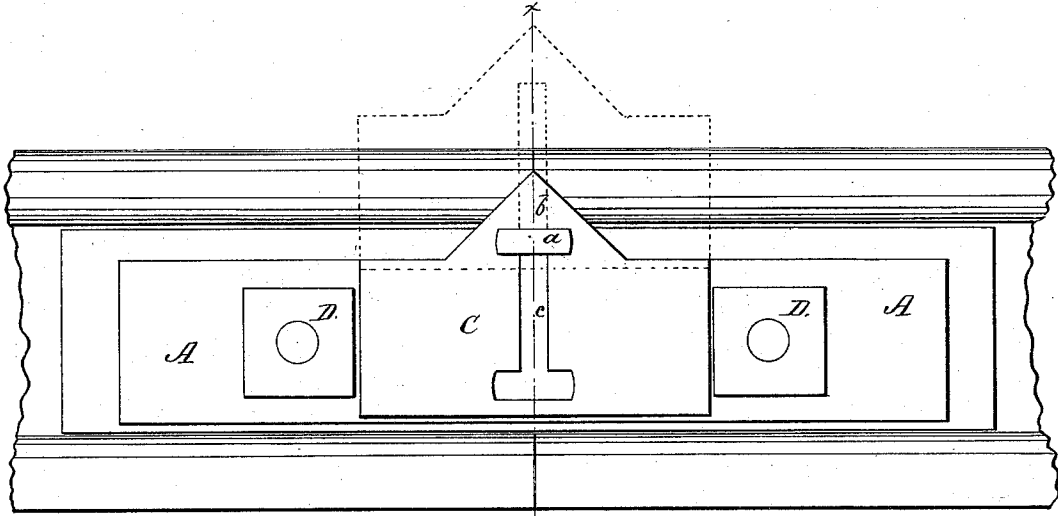


Fig. 2.

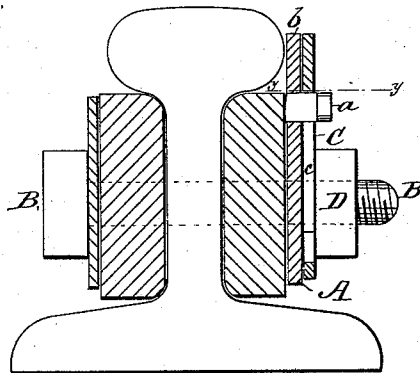
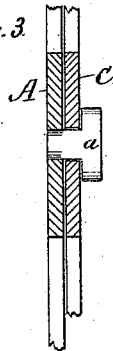


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES W. PAYNE, OF TIPTON, ASSIGNOR OF THREE-FOURTHS OF HIS RIGHT
TO AUSTIN P. SPEED, OF COOPER COUNTY, MISSOURI.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 229,175, dated June 22, 1880.

Application filed March 27, 1880. (No model.)

To all whom it may concern:

Be it known that I, JAMES WILLIAM PAYNE, of Tipton, in the county of Moniteau and State of Missouri, have invented a new and useful Improvement in Nut-Locks; and I do hereby declare that the following is a full, clear, and exact description of the same.

The nuts of bolts for securing fish-plates to railroad-rails have been locked by means of bars or slotted plates, which were so constructed and applied as to abut against one or more sides of the nuts, and were held fixed in position by the nuts themselves, or by attachment to the bolts, or by wedging between the head or base of the rail and the nuts.

My invention relates to a simpler means for securing a nut-locking plate, whereby it may be easily and quickly applied and removed, as hereinafter described.

In the accompanying drawings, Figure 1 is a side view of the ends of two meeting railroad-rails and my improved nut-lock applied thereto. Fig. 2 is a vertical section on line *x x*, Fig. 1. Fig. 3 is a horizontal section on line *y y*, Fig. 2.

I show in Figs. 1 and 2 ordinary wooden fish plates or bars applied to the rail-joint in the usual way. Against the face of one of the fish-plates is applied a thin metal plate, A, which has a headed stud or lug, *a*, fixed at its upper edge equidistant between the bolts B. Preferably the plate is provided with a projection or point, *b*, for attachment of the stud.

The nut-locking plate C has straight vertical side edges and a central vertical slot, *c*, which is narrower than the head of the stud *d*, except at the lower end, where it is enlarged sufficiently to receive the same.

After the plate A has been applied to the rails, and the nuts D of bolts B screwed home in the usual way, the plate C is attached by placing it flatwise against the plate, so that the head of stud *a* will pass through the enlargement of the slot *c*, and then sliding the plate downward between the nuts until it is pendent from the stud, as shown, in which position its side edges are in contact with or else in close proximity to the sides of the nuts, so that the latter are prevented from turning on the bolts and thereby becoming loosened or detached.

It is obvious that the locking-plate C may be detached with equal facility by reversing the movements above stated.

The plates C may be struck out of metal sheets in a drop-press, or by other suitable means, and thus produced cheaply.

The plate A may itself constitute the fish-plate proper, if desired.

I do not claim, broadly, a nut-locking plate which is interposed between and abuts the contiguous or opposite sides of two nuts.

Having thus described my invention, what I claim as new is—

The combination of the locking-plate C, having a central key-hole slot, with the plate A, having bolt-holes, and the T-headed stud *a*, arranged as specified, whereby said parts are adapted for use in locking nuts of fish-plate bolts, in the manner described.

JAMES WILLIAM PAYNE.

Witnesses:

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