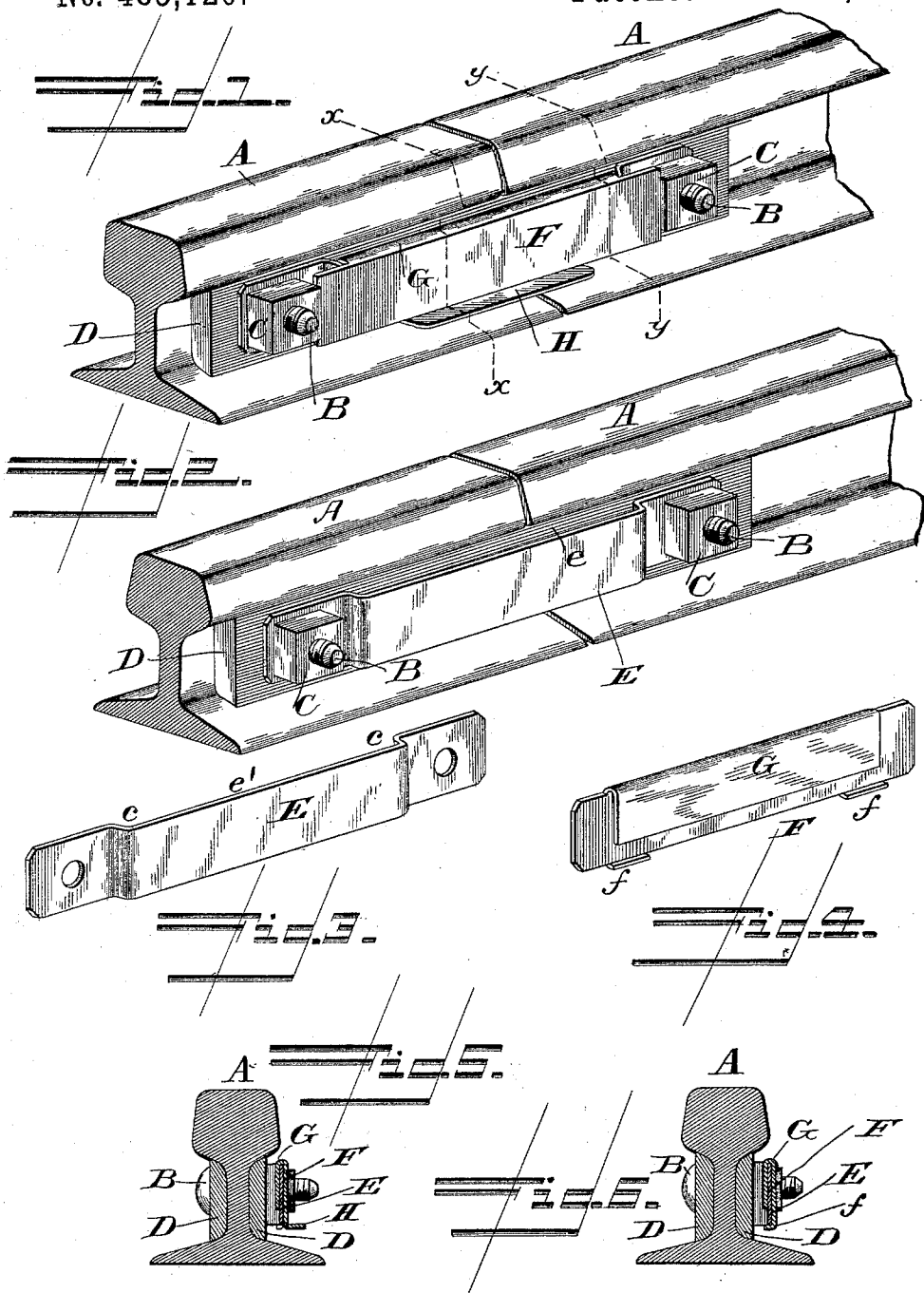


I. WOLFE.
NUT LOCK.

Patented Oct. 25, 1892.



WITNESSES:

F. L. Ourand.
Ernest Jones

INVENTOR:

Israel Wolfe,
by Saml Sagger & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

ISRAEL WOLFE, OF GOSHEN, INDIANA.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 485,120, dated October 25, 1892.

Application filed June 25, 1892. Serial No. 438,023. (No model.)

To all whom it may concern:

Be it known that I, ISRAEL WOLFE, a citizen of the United States, and a resident of Goshen, in the county of Elkhart and State of Indiana, have invented certain new and useful Improvements in Nut-Locks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved nut-lock complete as applied to a rail-joint. Fig. 2 is a similar view of the joint and washer-plate, but with the locking-plate proper removed. Fig. 3 is a perspective detail view of the washer-plate. Fig. 4 is a similar view of the locking-plate from the side facing the washer-plate. Fig. 5 is a transverse sectional view through the rail-joint and lock on line *x x* in Fig. 1, and Fig. 6 is a similar view on the parallel transverse plane indicated by the broken line marked *y y*.

Like letters of reference denote corresponding parts in all the figures.

This invention relates to devices for locking the nuts on the bolts used in connecting the ends of railway-rails in rail-joints; and it consists in the combination, with the bolts and nuts of the joint, of a removable locking device of novel construction, as will be hereinafter more fully described and claimed.

Referring to the drawings, the letters A A designate the meeting ends of two railway-rails of a rail-joint, B B the bolts, and C C their nuts. The fish-plates or angle-plates D D are of the usual construction and are placed one on each side of the joint. After the bolts have been properly inserted a washer-plate E is placed upon their projecting ends, said plate E having apertures for the insertion of that end of the bolts which is to receive the nuts. This washer-plate is of the configuration shown more clearly in Fig. 3—that is to say, it consists of a rectangular plate, of iron or other suitable metal, the middle part *e'* of which is raised by bending it at both ends, so as to form transverse shoulders or offsets *cc*, forming, when this washer-plate is placed in position upon the bolts and fish-plate, a narrow

slot or space *e* between the raised part *e'* and the adjacent fish-plate D. The shoulders *cc* are set back a sufficient distance from both ends to clear the nuts C and admit of their being screwed up upon or removed from the bolts.

The nut-locking device proper consists of a plate F, the upper part of which, of a somewhat reduced length and width, is bent or doubled upon itself, as shown at G, so as to form a hook-shaped clamp adapted to be hooked upon and overlap the middle part or offset *e'* of the washer-plate. When the locking-plate F is in this position, it is prevented from slipping off of the washer-plate by lugs or catches *ff* upon the lower and inner side of plate F, which may be formed conveniently by bending offsets on the lower end of the plate inwardly, so that they will by the spring of the locking-plate when the same is placed in position slip in under the lower edge of the offset *e'* on the washer-plate, as illustrated more clearly in Fig. 6, and thereby hold plate F in position. When the locking-plate is in this applied and operative position, its ends will impinge upon the sides of the squarely-turned nuts C, so as to effectually prevent them from turning on their bolts B and working loose or jarring off.

In order to easily manipulate the locking-plate, its lower middle part is bent outwardly at right angles, so as to form a projecting finger-piece H, by taking hold of which the plate may readily be placed in position or removed, as the case may be. To remove the device, the lower end of plate F is by its finger-piece H pulled out from the offset *e'* on the washer-plate enough to release its catches *ff*, when it can be easily slipped off said plate.

It will be observed that this device is exceedingly simple and inexpensive in construction, that it can be easily applied and as easily removed when desired, and that it forms an absolute lock for the nuts on both sides of the rail-joint.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination, with the washer-plate E, having offset *e'*, of the locking-plate F, having the overlapping part G and provided with

the outwardly-projecting finger-piece H, and inwardly-projecting lugs or catches *ff*, adapted to engage under the lower edge of the washer-plate, substantially as and for the purpose shown and set forth.

5 2. The combination, with the rails of a railway-rail joint, of the bolts, nuts, washer-plate E, having offset *e'*, forming side shoulder *c c*, and the removable locking-plate F, made of
10 spring metal, having the overlapping bent part G and provided with the finger-piece H,

and inwardly-projecting catches *ff*, adapted to engage with the under side of the offset on the washer-plate, substantially as and for the purpose shown and set forth. 15

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

ISRAEL WOLFE.

Witnesses:

JOEL H. AUSTIN,
JONATHAN ZIGLER.