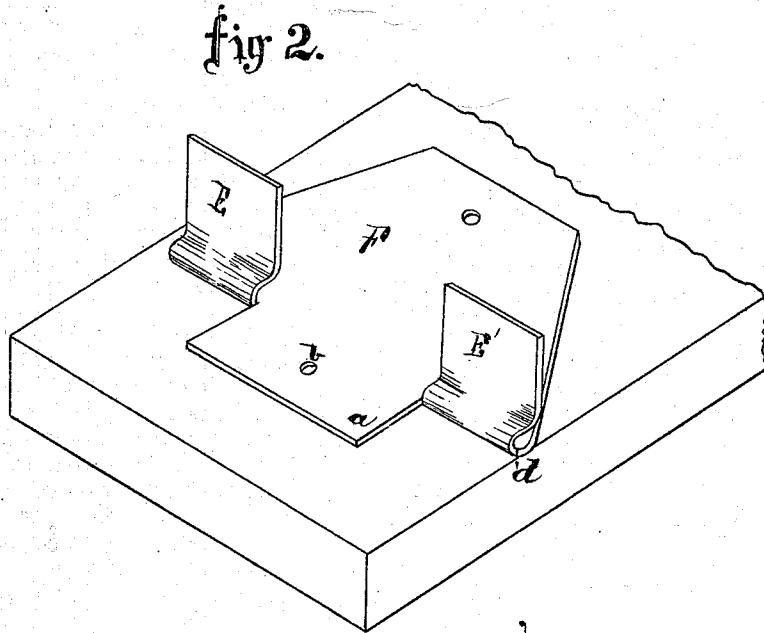
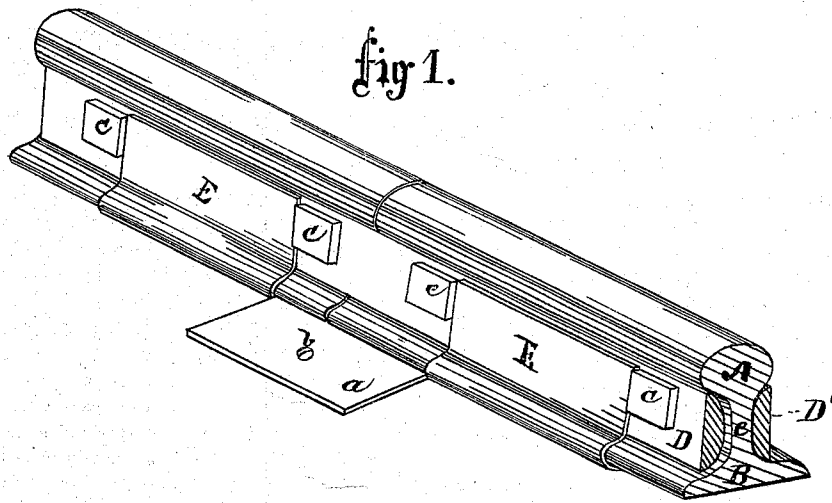


I. ALLEN.

Improvement in Devices for Locking Nuts.

No. 130,003.

Patented July 30, 1872.



Witnesses:

Parker H. Sweet, Jr.
H. J. Payson

Inventor:

Israel Allen.
By James L. Norris.
Atty.

UNITED STATES PATENT OFFICE.

ISRAEL ALLEN, OF TAUNTON, MASSACHUSETTS.

IMPROVEMENT IN DEVICES FOR LOCKING NUTS.

Specification forming part of Letters Patent No. 130,003, dated July 30, 1872.

To all whom it may concern:

Be it known that I, ISRAEL ALLEN, of Taunton, in the county of Bristol and State of Massachusetts, have invented certain Improvements in Devices for Locking Nuts, of which the following is full, clear, and exact description, sufficient to enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing making a part of this specification.

My invention relates to an improvement in that class of devices known as devices for locking nuts, which are more particularly applicable for the purpose of preventing the nuts or bolts for securing the fish-plates to the rails employed in railroad-tracks from turning and becoming loose; and to this end it consists of a metallic plate stamped or struck up from sheet or other metal, or formed of malleable or cast iron, of such a form as to pass beneath the rails, and having flanges bent at right angles to the part which passes beneath the rail, these flanges being placed between the nuts or bolt-heads with their edges against the same, and thus preventing the bolt or nut from turning and becoming loose, all of which will be more fully explained hereafter.

In the accompanying drawing, Figure 1 represents a perspective view of the railroad rails, fish-plates, and nuts with the improved nut-locking device applied thereto. Fig. 2 is a perspective view of the nut-locking plate as placed on the cross-tie.

A in the drawing represents the railroad rails, *c* the web of the same, and B the base-portion. D and D' are the fish-plates, and *c c* the heads or nuts of the bolts. F is a metallic plate made with flanges E E', bent at right angles to the horizontal portion *a* F, and at the point where the flanges are bent up is

made with a rounded corner, *d*, which, when the plate is placed in position under the rail, fits snugly against the edges of the base portion B; and the flanges E E' are placed between the heads or nuts of the bolts *c c*, the edges of the flanges bearing against the sides of the same, and thus preventing the bolts or nuts from turning and becoming loose.

When bolts with nuts are used to secure the fish-plates in their proper positions there may be flanges formed on both sides of the metallic plate, in order to secure both the heads and nuts, as shown in dotted lines, in Fig. 2.

The plate F, after being placed in its proper position, may be fastened to the cross-tie by spikes or otherwise, and thus prevent lateral movement of the same.

I do not claim a metallic plate, one or both ends of which are confined between the fish-plate and the rail, the sides of which metallic plate abut against the sides of nuts, so as to prevent them from turning; but

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

The plate F, slitted so as to form three leaves, E, E', and *b*, the two former, E E', adapted to be bent upward, so as to fit against the sides of the nut or nuts *c c*, and the latter, *b*, for fitting upon the sleeper, the said plate F being confined between the sleeper and the bottom of the rail, all constructed and arranged substantially as and for the purpose set forth.

To the above specification I have signed my name in the presence of two subscribing witnesses this 20th day of February, A. D. 1872.

ISRAEL ALLEN.

Witnesses:

A. E. SWASEY,
H. S. HARRIS.