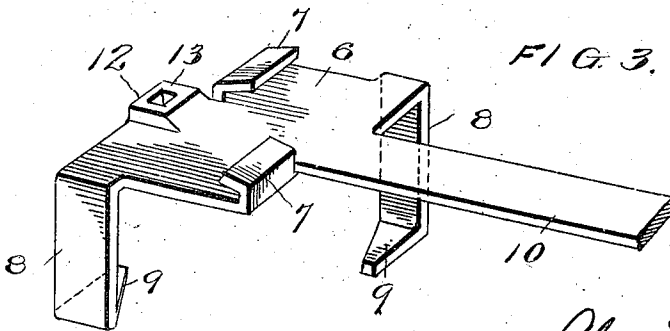
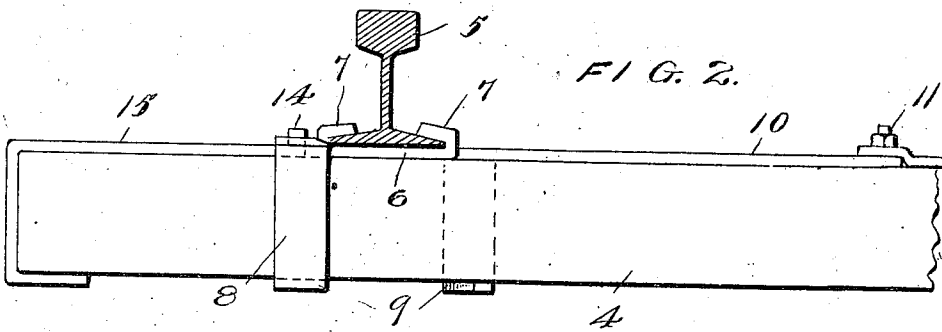
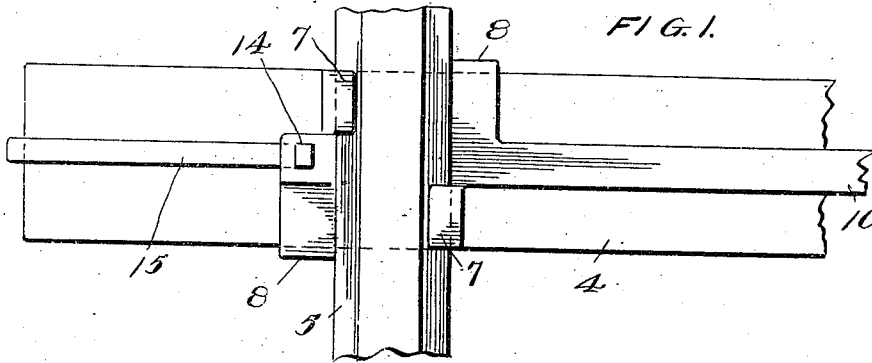


A. H. MOFFET.
RAIL FASTENING.
APPLICATION FILED JUNE 8, 1911.

1,014,090.

Patented Jan. 9, 1912.



WITNESSES

C. H. Davies.

A. C. Welch.

Alma H. Moffet
INVENTOR

by *[Signature]*

Attorney

UNITED STATES PATENT OFFICE.

ALVUS H. MOFFET, OF LARNED, KANSAS.

RAIL-FASTENING.

1,014,090.

Specification of Letters Patent.

Patented Jan. 9, 1912.

Application filed June 8, 1911. Serial No. 632,072.

To all whom it may concern:

Be it known that I, ALVUS H. MOFFET, a citizen of the United States, residing at Larned, in the county of Pawnee and State of Kansas, have invented new and useful Improvements in Rail-Fasteners, of which the following is a specification.

The present invention has reference to means for securing rails to ties, and the primary object is to provide an exceedingly simple and yet effective fastener of this character.

The preferred embodiment of the invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a plan view of a portion of a tie, and a portion of a rail thereon, the latter being secured to the former by the improved means. Fig. 2 is a side elevation. Fig. 3 is a perspective view of the tie plate.

Similar reference numerals designate corresponding parts in all the figures of the drawings.

The portion of a railroad tie that is disclosed is designated 4, and the rail thereon is shown at 5. Interposed between the tie and rail is a tie plate 6, having on two of its diagonally opposite corners, upstanding oppositely disposed hooks 7 that engage over opposite sides of the rail base. The other two diagonally disposed corners are provided with depending oppositely disposed tie embracing hooks 8 that are provided with inwardly turned terminals 9 that engage beneath the tie. The tie is furthermore provided with an inwardly extending arm portion 10 that constitutes one section of a connecting bar between two tie plates on the tie, these bars being preferably overlapped and connected, as illustrated at 11.

As thus far described, the structure may be made of a single piece, and the arm or section 10 constitutes means for turning the tie plate so as to simultaneously engage the hooks 7 with the rail and the hooks 8 with the tie.

The tie plate preferably has on its outer side an upset ear 12 provided with an opening 13, and in this opening is engaged the upstanding end 14 of a hook 15 that engages over the outer end of the tie.

From the foregoing, it is thought that the construction, operation, and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion and minor details of construction, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

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

1. The combination with a tie and a rail thereon, of a tie plate interposed between the rail and tie, said tie plate having diagonally opposite rail embracing hooks and other diagonally opposite tie embracing hooks, and a hook detachably engaged with the tie plate and extending around the end of the tie.

2. The combination with a tie and a rail thereon, of a tie plate interposed between the rail and tie, said tie plate having diagonally opposite rail-embracing hooks and other diagonally opposite tie-embracing hooks, an ear formed between one of the rail embracing hooks and one of the tie-embracing hooks and provided with an opening, and a hook extending around the end of the tie and having an offset end engaged in the opening.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ALVUS H. MOFFET.

Witnesses:

ALICE TICKELL,
NELLIE HEATON.