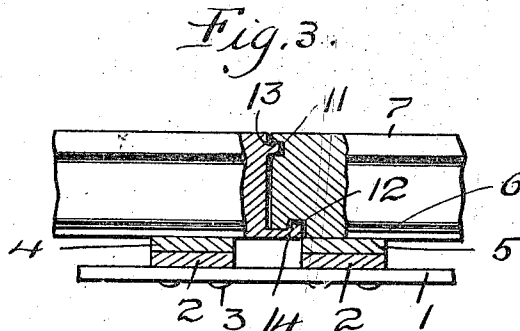
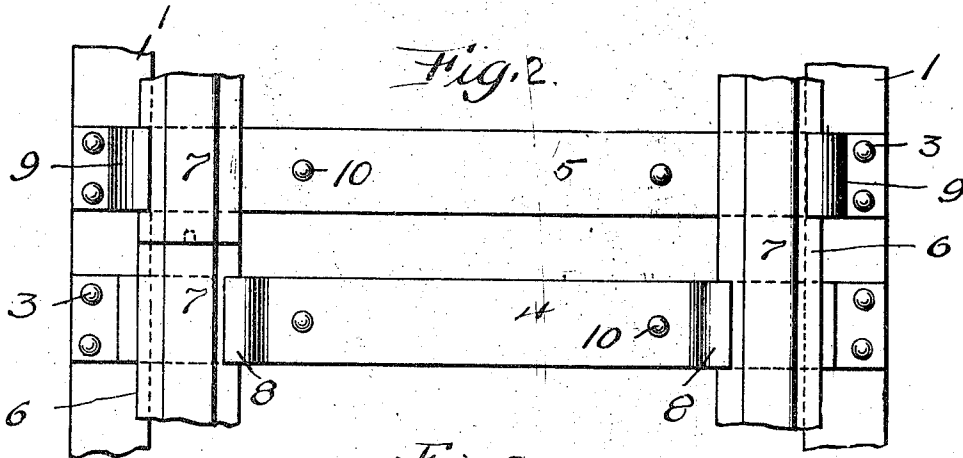
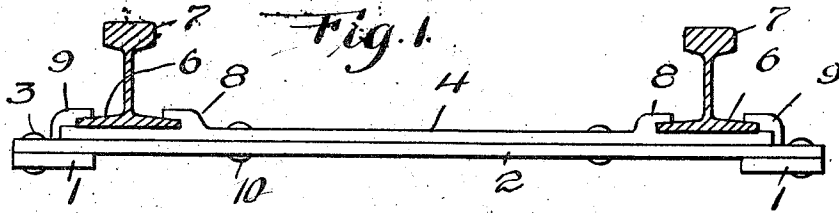


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METALLIC TIE AND RAIL FASTENER.
APPLICATION FILED DEC. 28, 1912.

1,062,425.

Patented May 20, 1913.



WITNESSES

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METALLIC TIE AND RAIL-FASTENER.

1,062,425.

Specification of Letters Patent.

Patented May 20, 1913.

Application filed December 28, 1912. Serial No. 739,078.

To all whom it may concern:

Be it known that I, FLORYAN WAJDA, a subject of the Emperor of Austria-Hungary, residing at Hammond, in the county of Lake and State of Indiana, have invented certain new and useful Improvements in Metallic Ties and Rail-Fasteners, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to metallic ties and rail fasteners, and the objects of my invention are, first, to provide a metallic foundation structure for rails that can be used in connection with wooden ties, sleepers, concrete girders, ordinary road ballast or other supports; second, to furnish metallic ties with novel fasteners for preventing vertical and lateral displacement of rails mounted thereon; third, to entirely eliminate the use of spikes as a fastening medium for rails, and fourth, to accomplish the above results by a mechanical construction, that is durable, inexpensive to manufacture and highly efficient for railroad purposes.

With the above and other objects in view the invention resides in the novel construction, combination and arrangement of parts to be hereinafter specifically described and then claimed.

Reference will now be had to the drawing, wherein:—

Figure 1 is a side elevation of a metallic tie in accordance with this invention illustrating the preferred form of construction, Fig. 2 is a plan of the tie showing the preferred form of construction illustrated in Fig. 1, and Fig. 3 is a cross sectional view of the tie illustrating a joint in detail.

Further describing my invention in detail with reference to the accompanying drawing, wherein like numerals denote corresponding parts throughout: 1 denotes longitudinal stringers or beams that are flat and adapted to be supported by a plurality of ties, the ballast of a road bed or other supports, the straight stringers or beams having a specific gage for supporting flat metallic ties 2 that are riveted or otherwise secured, as at 3 to the stringers or beams whereby the ties cannot become accidentally displaced.

In the preferred form of construction, the ties 2 are provided with longitudinal tie plates 4 and 5 that are alternately arranged. The tie plates 4 extend under base flanges 6, of rails 7 and are provided with inner rail fasteners 8 adapted to overhang the inner base flanges 6 of said rails. The tie plates 5 also extend under the rails and have outer rail fasteners 9 overhanging and engaging the outer base flanges 6 of the rails 7.

The tie plates 4 and 5 are riveted, or otherwise connected, as at 10 to the ties and with the tie plates alternately arranged it is impossible for the rails 7 to be accidentally displaced. When a joint is encountered, one of the rails 7 has the head thereof provided with a socket 11 and the base thereof with a socket 12. Engaging in these sockets are tongues 13 and 14 carried by an adjoining rail, the tongue 14 being angular in elevation to prevent longitudinal displacement of one rail relatively to an adjoining rail, while the tongue 13 prevents vertical displacement of the same rails with respect to each other.

What I claim is:—

A metallic tie and rail fastener comprising a pair of longitudinally extending flat metallic stringers, a pair of flat metallic ties arranged in close relation with respect to each other and having their ends flush with the outer longitudinal edges of said stringers, rail supporting tie plates positioned upon said ties and adapted to have their ends support the bases of rails, outer rail fasteners carried by one of said tie plates, means for securing the last mentioned tie plate and its respective tie to said stringers, inner rail fasteners carried by the other tie plates, means for securing that tie supporting that tie plate provided with the inner fasteners to the stringers, and means for securing the tie plates to their respective ties.

In testimony whereof I affix my signature in the presence of two witnesses.

FLORYAN WAJDA.

Witnesses:

FRANK STEFANSKI,
JOHN DURDJOK.