P. TUMO.

METALLIC TIE AND RAIL FASTENER.

APPLICATION FILED MAY 10, 1911.

1,001,479. **Patented Aug. 22, 1911.**

FIG. 1

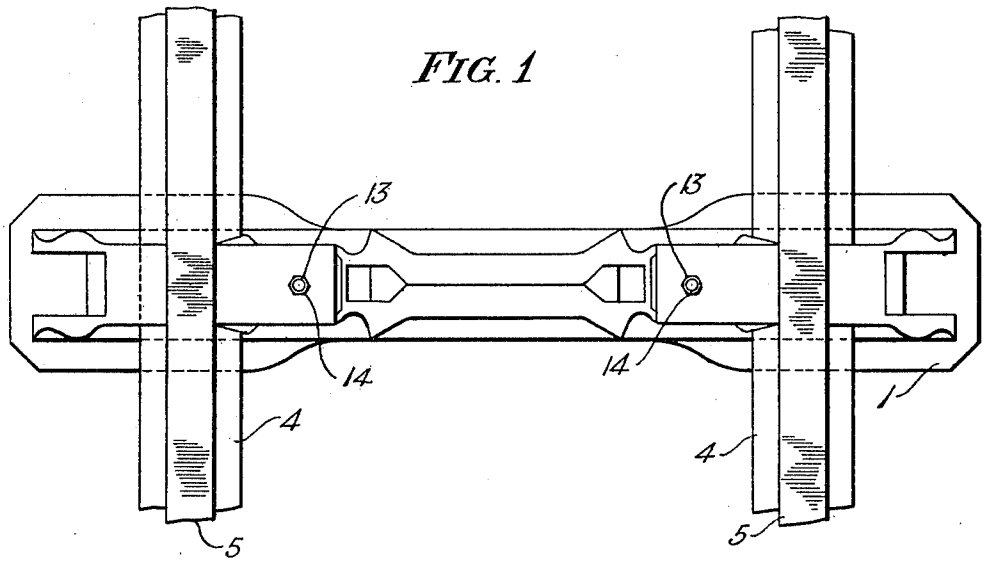


FIG. 2

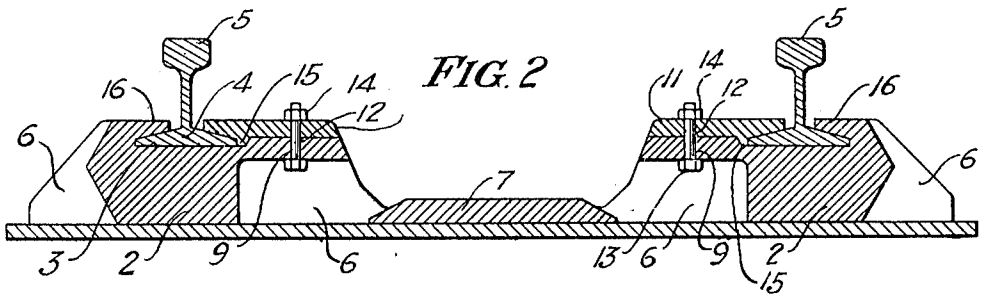


FIG. 3

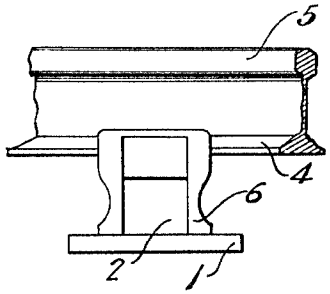
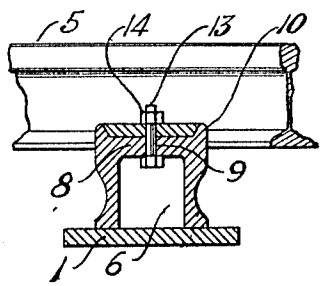


FIG. 4



WITNESSES:

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METALLIC TIE AND RAIL-FASTENER.

1,001,479. Specification of Letters Patent. Patented Aug. 22, 1911.

Application filed May 10, 1911. Serial No. 626,263.

To all whom it may concern:

Be it known that I, PAUL TUMO, a subject of the King of Hungary, residing at Toleston, 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 strong and durable metallic tie for supporting rails; second, to furnish the tie with a fastener for positively retaining the rails thereon; third, to provide a rail fastener that will prevent lateral and vertical displacement of rails relatively to a tie, and fourth, to provide a metallic tie that can be easily installed in a roadbed without the use of skilled labor.

I attain the above objects by a mechanical construction to be hereinafter specifically described and then claimed.

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

Figure 1 is a plan of the tie and rail fastener in accordance with this invention, Fig. 2 is a longitudinal sectional view of the same, Fig. 3 is an end view of the tie, and Fig. 4 is a cross sectional view of the same.

A tie in accordance with this invention comprises a base plate 1 and welded, brazed or otherwise mounted upon the base plate are two integral rail chairs 2 having rail seats 3 for the base flanges 4 of rails 5. The chairs 2 have longitudinal side walls 6 having the inner ends thereof terminating in a central web 7 secured to the base plate 1. The inner ends of the walls 6 are connected by top plates 8 and these top plates have central vertical openings 9. The top plates 8 are provided with seats 10 for inner rail fasteners 11 having vertical openings 12 adapted to register with the openings 9. Arranged in the openings 9 and 12 are vertical bolts 13 provided with nuts 14. The inner rail fasteners extend over the inner base flanges 4 of the rails 5 and are provided with depending ribs 15 extending on to the seats 3 and bracing the inner edges of the base flanges 4 of the rails.

The chairs 2 have integral over-hanging outer rail fasteners 16 engaging the outer base flanges 4 of the rails 5.

The ends of the plate 1 are enlarged and said plate can be embedded in concrete or the ballast of a roadbed.

What I claim is:—

In a metallic tie and rail fastener, the combination with rails, of a base plate having enlarged ends, chairs mounted upon said base plate adjacent to the ends thereof and having seats adapted to support the base flanges of said rails, side walls carried by said chairs, a web mounted upon said base plate and connecting the inner ends of said walls, over-hanging outer rail fasteners formed integral with said chairs and engaging the outer base flanges of said rails, inner rail fasteners supported by said chairs and engaging the inner base flanges of said rails, and bolts and nuts adapted to secure said inner rail fasteners to said chairs, substantially as described.

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

PAUL TUMO.

Witnesses:
HARRY H. GLUECK,
RUTH V. MILLER.