

J. LENART.
TIE AND RAIL FASTENER.
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1,030,899.

Patented July 2, 1912.

FIG. 1

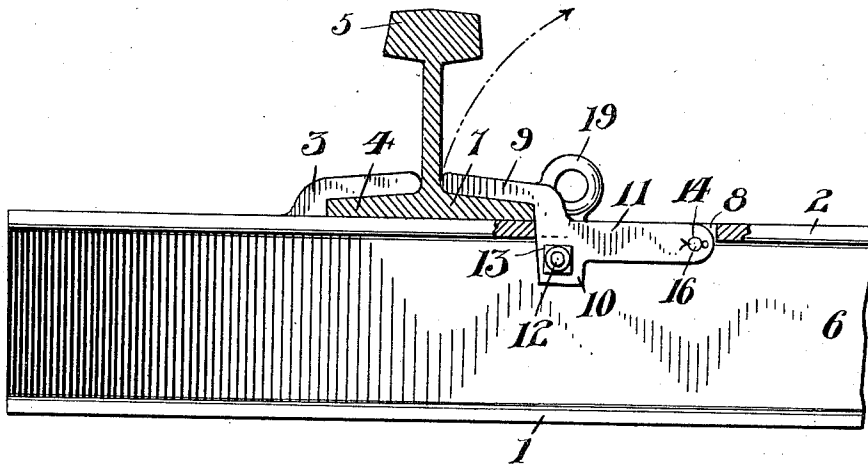
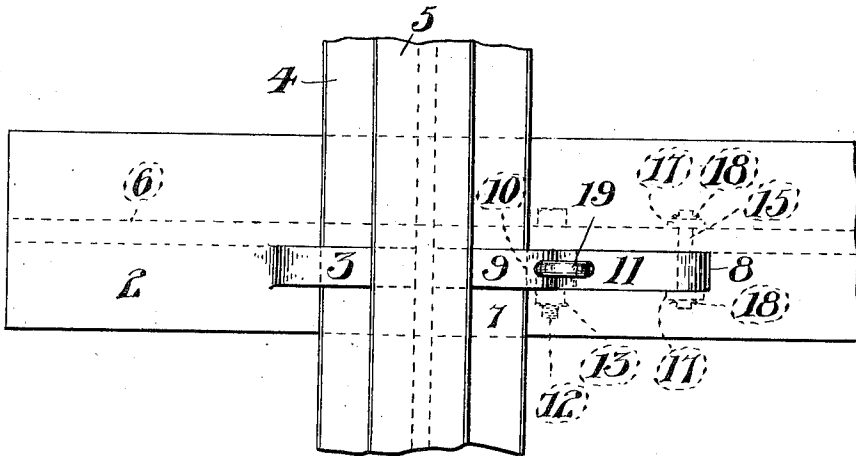


FIG. 2



WITNESSES

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UNITED STATES PATENT OFFICE.

JAN LENART, OF WHITING, INDIANA.

TIE AND RAIL-FASTENER.

1,030,899.

Specification of Letters Patent.

Patented July 2, 1912.

Application filed April 17, 1912. Serial No. 691,285.

To all whom it may concern:

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

This invention relates to ties and rail fasteners, and the objects of my invention are to provide a strong and durable metallic tie of the I-beam construction, and to furnish the tie with novel fasteners for retaining the base flanges of a rail thereon.

Further objects of my invention are to provide a metallic tie that can be easily and quickly tamped in the ballast of a roadbed, and to provide a tie and rail fastener that is inexpensive to manufacture and highly efficient for supporting and holding rails.

I attain the above objects by a mechanical construction that will be hereinafter specifically described and then claimed, and reference will now be had to the drawing, wherein:—

Figure 1 is a side elevation of a portion of the tie partly broken away and partly in section, and Fig. 2 is a plan of the same.

A tie in accordance with this invention comprises an I-beam 1 having the top flange 2 thereof, adjacent to the end of the tie, provided with an integral outer fastener 3 that extends on to the outer base flange 4 of a rail 5 mounted upon the top flange 2 of the tie. The outer rail fastener 3 is located to one side of the web 6 of the tie and said outer fastener coöperates with an inner fastener in retaining the rail upon a tie.

The top flange 2 of the tie, adjacent to the inner base flange 7 of the rail 5, is provided with a longitudinal slot 8, said slot being at one side of the web 6 and longitudinally alining with the outer rail fastener 3. Arranged in the slot 8 is an inner rail fastener 9, said fastener having a bearing 10 and an arm 11. The bearing 10 is pivotally mounted upon a bolt 12 arranged in the web 6 of the tie, said bolt having a nut 13

to prevent accidental displacement of the inner fastener.

The end of the arm 11 has an opening 14 adapted to register with a transverse opening 15 in the web 6. Arranged in the openings 14 and 15 is a locking pin 16 having the ends thereof provided with washers 17 and cotter pins 18, said cotter pins preventing displacement of the locking pins 16. The inner fastener 9 is provided with an eye 19 or a suitable handle, whereby when the locking pin 16 is removed, the handle 19 can be gripped and the inner fasteners swung to an open position to permit of the rail 5 being removed from the top flange 2 of the tie. The rail fasteners prevent lateral and vertical displacement of the rail 5 and it is obvious that the rail can be easily and quickly mounted upon the tie.

I would have it understood that my invention is susceptible to such changes as fall within the scope of the appended claim.

What I claim is:—

In a metallic tie and rail fastener, the combination with a rail, and a tie of the I-beam construction supporting the base flanges of said rail, said tie having the top flange thereof provided with a longitudinal slot, of an outer rail fastener formed integral with the top flange of said tie and engaging the outer base flange of said rail, an inner rail fastener engaging the inner base flange of said rail, a bearing carried by said inner fastener and extending into the slot of said tie, a bolt pivotally connecting said bearing to the sides of the web of said tie, an arm carried by said bearing within said slot, a locking pin extending transversely of said arm and the web of said tie for maintaining said inner fastener in engagement with said rail, and a handle carried by said inner fastener to facilitate opening said inner fastener when said locking pin is removed.

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

JAN LENART.

Witnesses:

JAN NEMTUSAK,

FRANK STAHWUK.