A. SEDIVYG.

METALLIC TIE AND RAIL FASTENER.

APPLICATION FILED NOV. 6, 1911.

1,022,271. Patented Apr. 2, 1912.

Fig. 1.

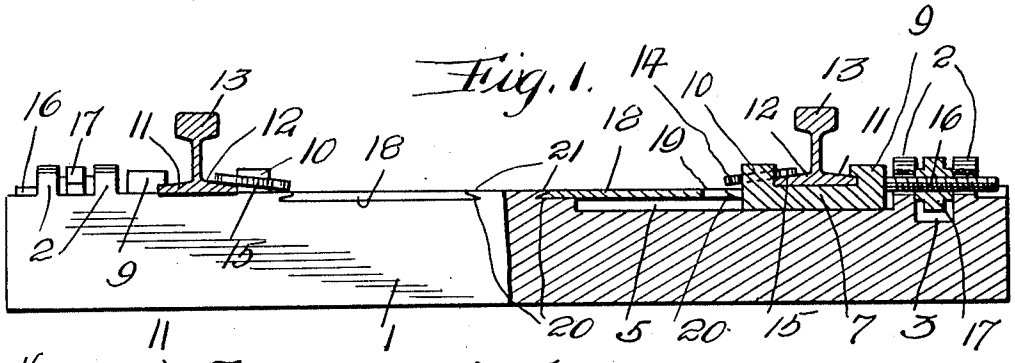

Fig. 2.

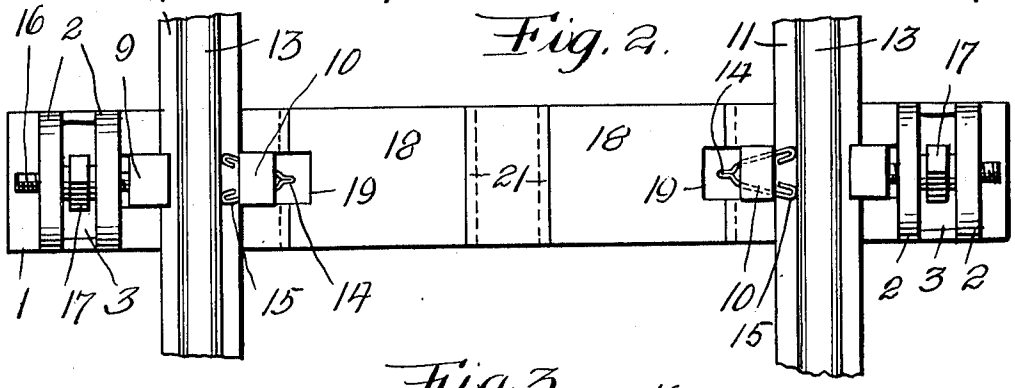

Fig. 3.

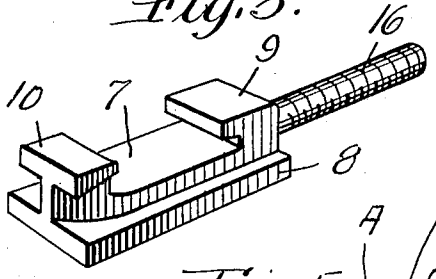

Fig. 4.

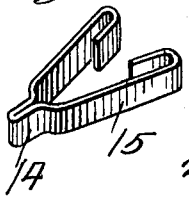

Fig. 5.

WITNESSES

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METALLIC TIE AND RAIL-FASTENER.

1,022,271. Specification of Letters Patent. Patented Apr. 2, 1912.

Application filed November 6, 1911. Serial No. 658,664.

To all whom it may concern:

Be it known that I, ANDY SEDIVYG, a subject of the King of Hungary, residing at Indiana Harbor, 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 a metallic tie and rail fastener, and the objects of my invention are to provide a strong and durable tie for supporting rails, and to furnish the tie with fasteners that can be repeatedly adjusted to preserve the gage of a track.

Other objects of my invention are to provide a metallic tie that is inexpensive to manufacture, and to furnish the tie with a fastener consisting of comparatively few parts that can be easily and quickly assembled.

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 like numerals denote corresponding parts throughout the several views in which:—

Figure 1 is a side elevation of the tie and rail fastener partly broken away and partly in section. Fig. 2 is a plan of the tie and rail fastener. Fig. 3 is a perspective view of a detached rail chair. Fig. 4 is a perspective view of a detached fastener, and Fig. 5 is a perspective view of a portion of the tie.

A tie in accordance with this invention comprises an oblong metallic body 1 of the same dimensions as an ordinary wooden tie. The tie has the top thereof, at each end thereof, provided with a set of transverse ribs 2 with a transverse groove 3 between said ribs. The ribs 2 are arranged in parallelism and are provided with longitudinally alining openings 4. The top of the tie adjacent to each inner rib 2 is formed with a longitudinally extending dove-tailed groove 5, the latter terminates at its inner end in a rectangular recess 6 of sufficient size for the reception of a rail chair 7, prior to the shifting of the latter into the longitudinal groove.

The rail chair 7 has longitudinal ribs 8, an outer fastener 9 and an inner T-shaped fastener 10. The ribs 8 of the chair slide in the groove 5 and prevent vertical displacement of said chair. The fasteners 9 and 10 engage the base flanges 11 and 12 of a rail 13, with the outer fastener 9 extending over the outer base flange 11. Associated with the inner fastener 10 is a resilient clip 14 that is sprung under the head of the inner fastener 10 to engage the upper surface of the inner base flange 12 of the rail. The clip 14 is made of a strip of metal bent to provide arms 15 that embrace the inner fastener and extend on to the flange 12. The outer end of the chair 7 has a screw threaded stem 16 to extend through the openings 4 of the ribs 2 and screwed upon said stem, between said ribs, is a nut 17 that permits of the chair being adjusted longitudinally of the groove 5. Each of the recesses 6, after the chair has been placed in position, is closed through the medium of a cover plate 18 (Fig. 1). Each of the cover plates has the outer end thereof cut away as at 19 to provide clearance for the clip 14 which associates with the inner fastener 10. Each of the ends of the cover plate 18 is beveled, as at 20 and the said beveled ends 20 engage under the beveled shoulders 21 upon the upper face of the tie body whereby said plate is maintained in position. The top of the cover plate 18 is flush with the tie body and prevents dirt and other matter from accumulating within the recess 6, which otherwise would interfere with the adjustment of the chair 7.

It is through the medium of the stem 16 and the nut 17 that the chairs can be adjusted longitudinally of the tie body to maintain the gage of a track.

What I claim is:—

1. In a metallic tie and rail fastener, the combination with rails, of a tie body provided with recesses communicating with longitudinal dovetailed grooves, chairs slidably mounted in said grooves and adapted to support said rails, outer and inner fasteners carried by said chair, a clip in connection with said inner fastener for retaining said rail in engagement with said outer fastener, a cover plate closing said recess, and means carried by said tie body for adjusting said chairs in said grooves.

2. In a metallic tie and rail fastener, the combination with rails, of a tie body, said body having longitudinal grooves formed therein, chairs slidably mounted in said grooves and adapted to support said rails,

said tie body having recesses formed therein, communicating with said grooves to facilitate the placing of said chairs in said grooves, inner and outer fasteners carried by said chairs, transverse ribs carried by said tie, screw threaded stems carried by the outer ends of said chairs and extending through said ribs, nuts screwed upon said stems between said ribs, and cover plates detachably mounted in the top of said tie for closing the recesses thereof.

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

ANDY SEDIVYG.

Witnesses:
DANIEL W. DUPES,
AUGUSTUS C. FOLEY,