S. STAMMLER.

METALLIC TIE AND RAIL FASTENER.

APPLICATION FILED JUNE 28, 1910.

975,902.

Patented Nov. 15, 1910.

Fig. 1.

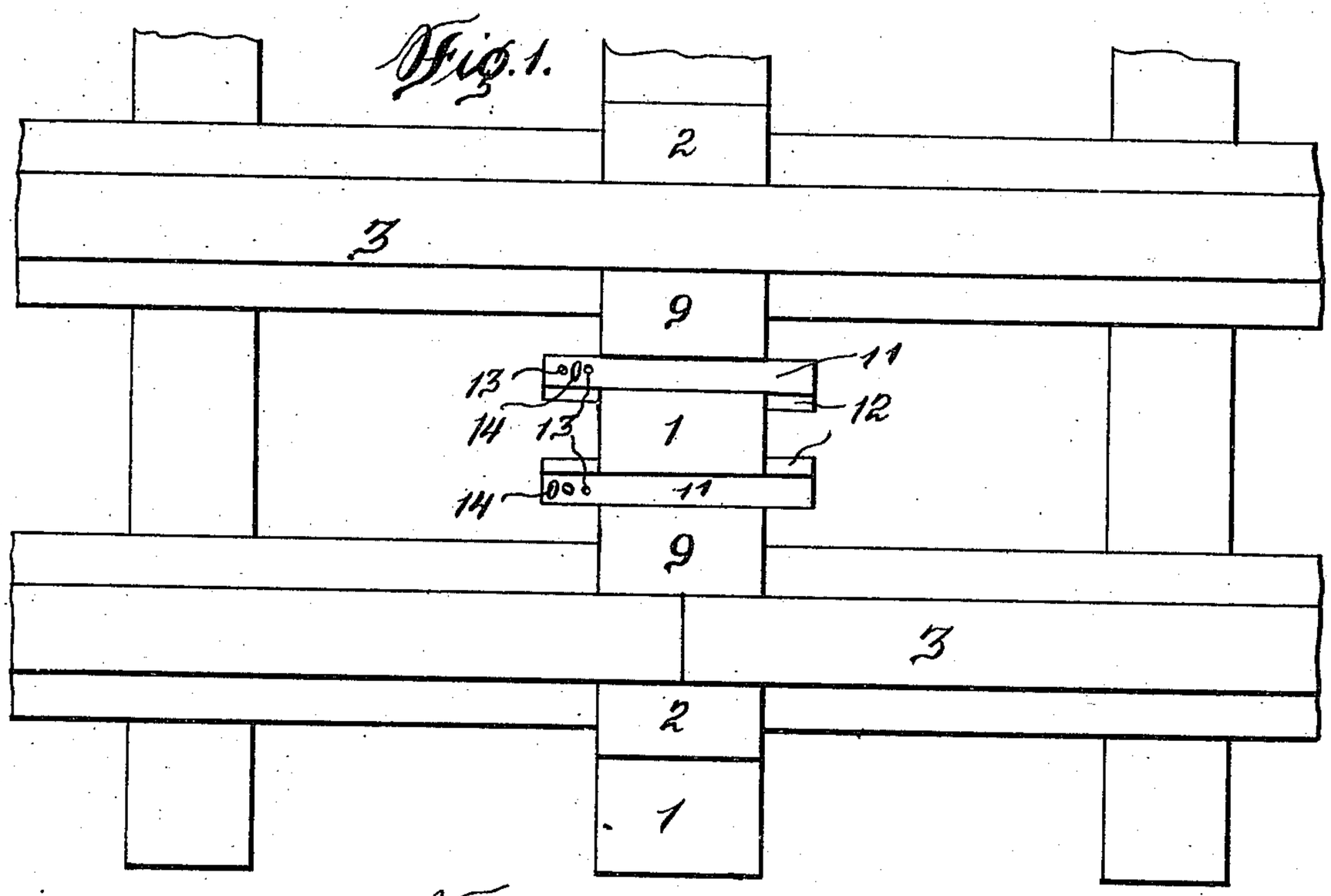


Fig. 2.

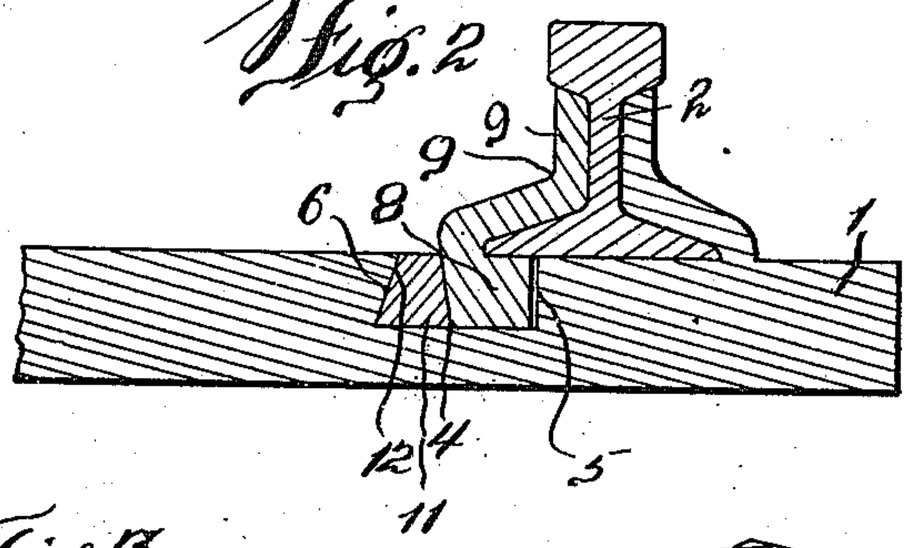


Fig. 3.

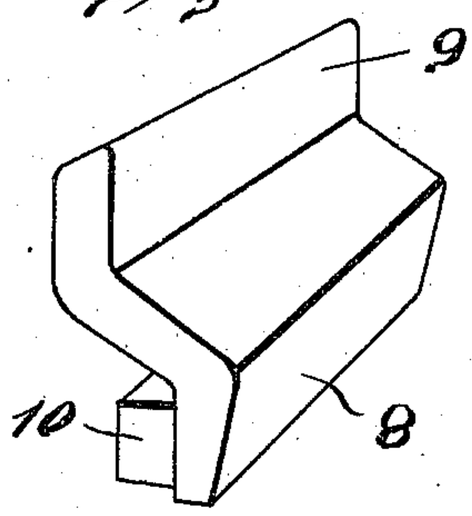
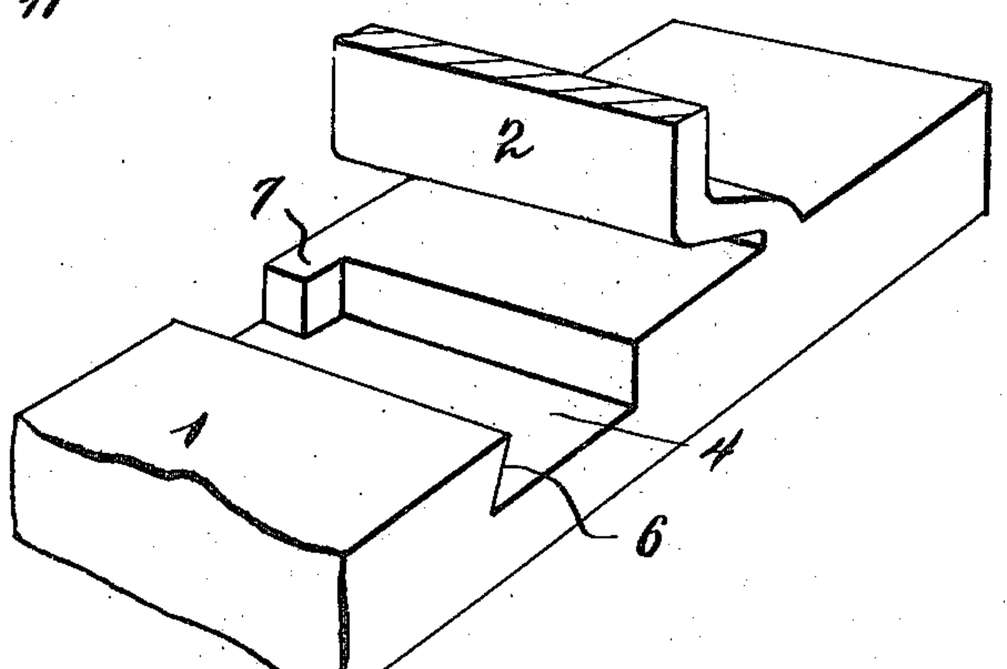


Fig. 4.



WITNESSES

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METALLIC TIE AND RAIL-FASTENER.

975,902. Specification of Letters Patent. Patented Nov. 15, 1910.

Application filed June 28, 1910. Serial No. 569,370.

To all whom it may concern:

Be it known that I, SCOTT STAMMLER, a citizen of the United States of America, residing at Granville, in the county of Licking and State of Ohio, 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 to provide a metallic tie with positive and reliable means for securing rails thereto whereby said rails cannot become laterally or vertically displaced, and to provide a rail fastener that can be advantageously used for securing the confronting ends of two rails upon a tie.

Further objects of the invention are to provide a rail fastener that can be easily and quickly installed without the use of skilled labor, and to obviate the necessity of using nuts and bolts for connecting the confronting ends of two rails.

These and such other objects as may hereinafter appear are attained by the novel construction to be hereinafter specifically described and then claimed, and reference will now be had to the drawing forming a part of this specification, wherein:

Figure 1 is a plan of the metallic tie and rail fastener. Fig. 2 is a longitudinal sectional view of a portion of the metallic tie and rail fastener. Fig. 3 is a perspective view of a detached splice bar, and Fig. 4 is a perspective view of one end of the metallic tie and the integral splice bar thereof.

In the accompanying drawing the reference numeral 1 denotes an oblong metallic tie rectangular in cross section and approximately the same dimensions as the present type of wooden tie. The tie 1 adjacent to each end thereof is provided with an integral splice bar 2 adapted to brace the outer side of a rail or rails 3 mounted upon said tie. The tie 1 has the upper surface thereof adjacent to the splice bar 2 provided with a transverse groove 4 having a vertical wall 5 and an inclined beveled wall 6. The wall 5 at one end thereof is provided with an inwardly projecting lug 7 and mounted in said groove is the depending side wall 8 of a detachable splice bar 9 adapted to brace the inner side of the rail or rails 3.

The depending side wall 8 of the splice bar 9 has the inner side thereof provided with a rib 10 of a less length than the splice bar 9, said rib extending from one end of the splice bar to within proximity of the opposite end. This rib is adapted to engage the lug 7 and prevent the rib from moving entirely through the groove, as will presently appear. The combined length of the lug 7 and the rib 10 corresponds to the width of the tie 1, and for retaining the rib within said groove and in engagement with the lug 7 a tapering key 11 is employed, said key having a beveled inclined side 12 to engage the beveled inclined side wall 6 of the groove 4. The key 11 can only be driven into the groove 4 from one end thereof, and it is during this driving movement of the key that the lug 7 holds the rib 10 and the splice bar 9 within said groove, whereby said splice bar can be snugly wedged against the inner side of the rail or rails 3.

The small ends of the keys 11 can be provided with a plurality of vertical openings 13 and in these openings can be mounted pins 14 for preventing the keys from becoming accidentally disengaged from the tie. In some instances, these pins can be dispensed with.

The metallic tie and rail fastener is made of strong and durable metal and can be used either for supporting a single rail upon the end of a tie or the confronting ends of two rails.

What I claim, is:

In a metallic tie and rail fastener, the combination with rails, of an oblong metallic structure adapted to support said rails, splice bars formed integral with the upper surface of said structure adjacent to the ends thereof and adapted to brace the outer sides of said rails, said structure adjacent to each splice bar having transverse grooves formed in the upper surface thereof with the outer walls of said grooves inclined transversely and beveled, said grooves having the outer walls thereof at the ends provided with inwardly projecting lugs, detachable splice bars adapted to brace the inner sides of said

rails, depending side walls carried by said splice bars and extending into said grooves, longitudinal ribs carried by the inner sides of said side walls and adapted to engage said lugs, and keys adapted to be driven into said grooves to retain said detachable splice bars in engagement with said rails, said keys having beveled tapered sides to engage the beveled tapered side walls of said grooves, substantially as described.

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

SCOTT STAMMLER.

Witnesses:

HENRY WELSH,

HARRY WILLIS.