

(No Model.)

L. HAAS.
RAILROAD CHAIR AND TIE.

No. 257,572.

Patented May 9, 1882.

Fig. 1.

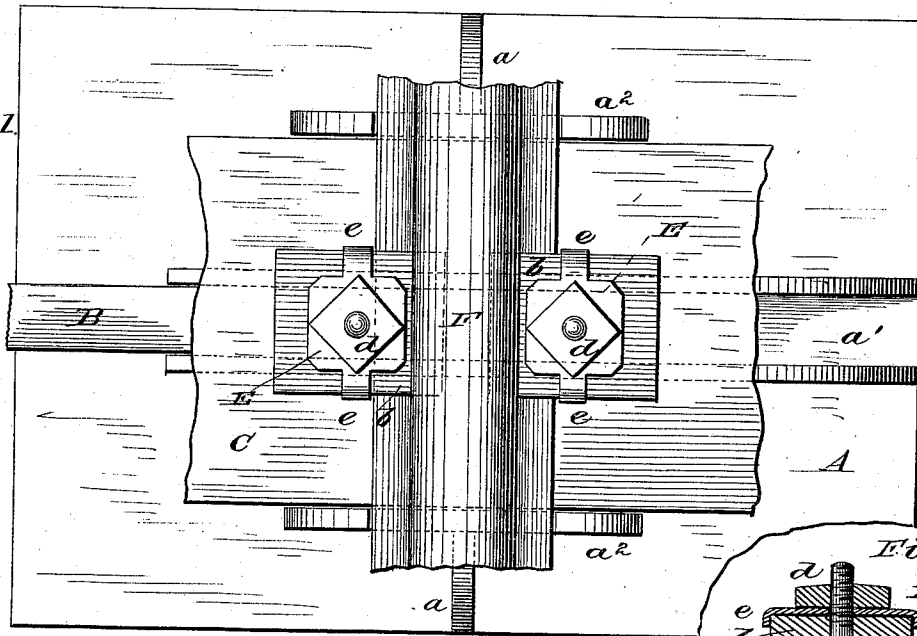


Fig. 2.

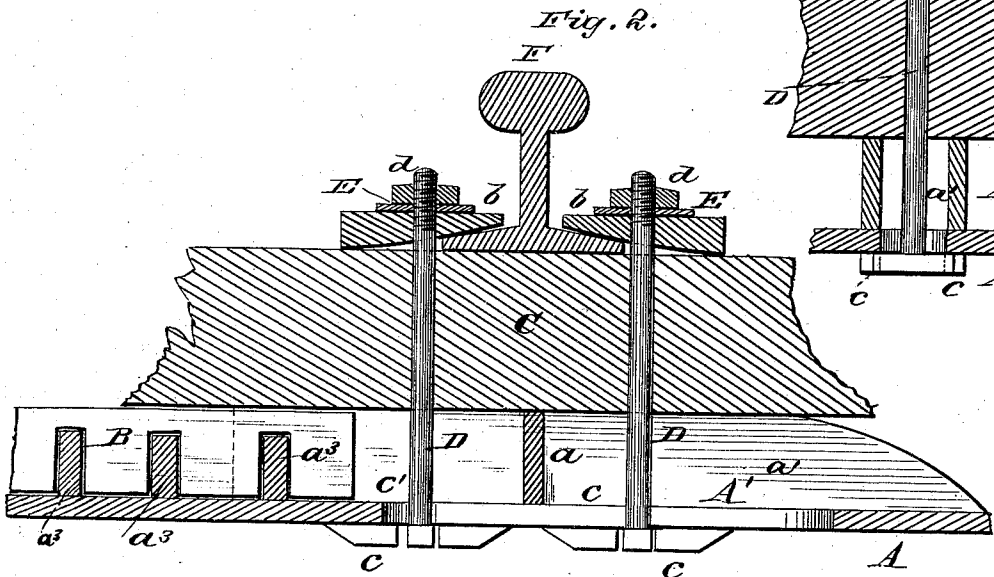
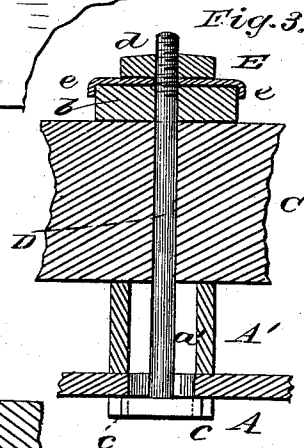


Fig. 3.



WITNESSES

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RAILROAD CHAIR AND TIE.

SPECIFICATION forming part of Letters Patent No. 257,572, dated May 9, 1882.

Application filed February 15, 1882. (No model.)

To all whom it may concern:

Be it known that I, LEVI HAAS, a citizen of the United States, residing at Chester, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in Railroad Chairs and Ties, of which the following is a specification, reference being had therein to the accompanying drawings.

Figure 1 is a plan view of my improved railroad-track. Fig. 2 is a longitudinal section thereof, and Fig. 3 is a transverse section of the same.

This invention has relation to an improvement in railroad chairs and ties, more particularly the casting of the rail-supporting base-seat and the bed of cast-iron; and it consists of the combination and arrangement of parts, substantially as hereinafter more fully set forth.

Referring to the accompanying drawings, A designates the bed—a flat plate—and A' is the rail-support seat, which consists of the right-angularly crossing web *a* and oblong socket *a'*, and the upright side pieces, *a*², braced in position, all of the aforesaid parts being cast in one piece.

The socket *a'* of each bed-plate has transverse spaced-apart pieces *a*³, which, with slotted rods or bars B, having their ends hooked or inserted over the cross-pieces *a*³ of the bed-plates of the track, effect the connecting together of the said bed-plates and indirectly the rails.

C is the base piece or block upon which the rail is supported, and which is seated in the seat A'. Through the chair-plates *b*, resting on the block C and upon the flanges on each side of the rail, and through the block C and the bed-plate A, are inserted bolts or rods D for fastening simultaneously all the parts together. The lower ends of the rods or bolts have cross-heads on them, which bear on the under side of the bed-plate, each between cleats *c*, fastened to the same side of the bed-plate, and arranged on each side of a slot, *c'*, in the bed-plate. The upper ends of the bolts or

rods are passed through washers E and nutted, as at *d*. The washers are of an approximate concavo-convex shape, and provided with flanges *e*, which fit down on the sides of the chair-plates *b* to prevent the turning of the washers, while their convexities bear against and prevent the jarring loose of the nuts *d*.

F is the rail fastened in place upon the base-block, as above stated.

This invention dispenses with the use of the ordinary chair and fish-plate, while furnishing a solid bed, effecting the ready and easy laying of the track and the removal of the respective parts and doing away with the ordinary ties.

Having thus fully described my invention, I claim and desire to secure by Letters Patent—

1. The bed-plate having the right-angled crossing web and socket and the side pieces, in combination with the block, the track-rail, and means of fastening for connecting the whole together, substantially as and for the purpose set forth.

2. In a railroad structure, the bed-plate and the rail-support seat, consisting of right-angled crossing web *a*, having oblong socket *a'*, with spaced-apart pieces *a*³ and upright side pieces, *a*², all combined and constructed of one piece of cast-iron, substantially as and for the purpose specified.

3. The combination of the base-plate having the right-angled crossing web and oblong socket provided with cross-pieces, and the side pieces, the base-block, the slotted or notched tie rod or bar, the chair-plates, the washers, concavo-convex in shape, and having flanges, the headed and nutted bolts, and the rail, substantially as and for the purpose set forth.

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

LEVI HAAS.

Witnesses:

STEPHEN E. HAAS,
JOSEPH B. BARRY.