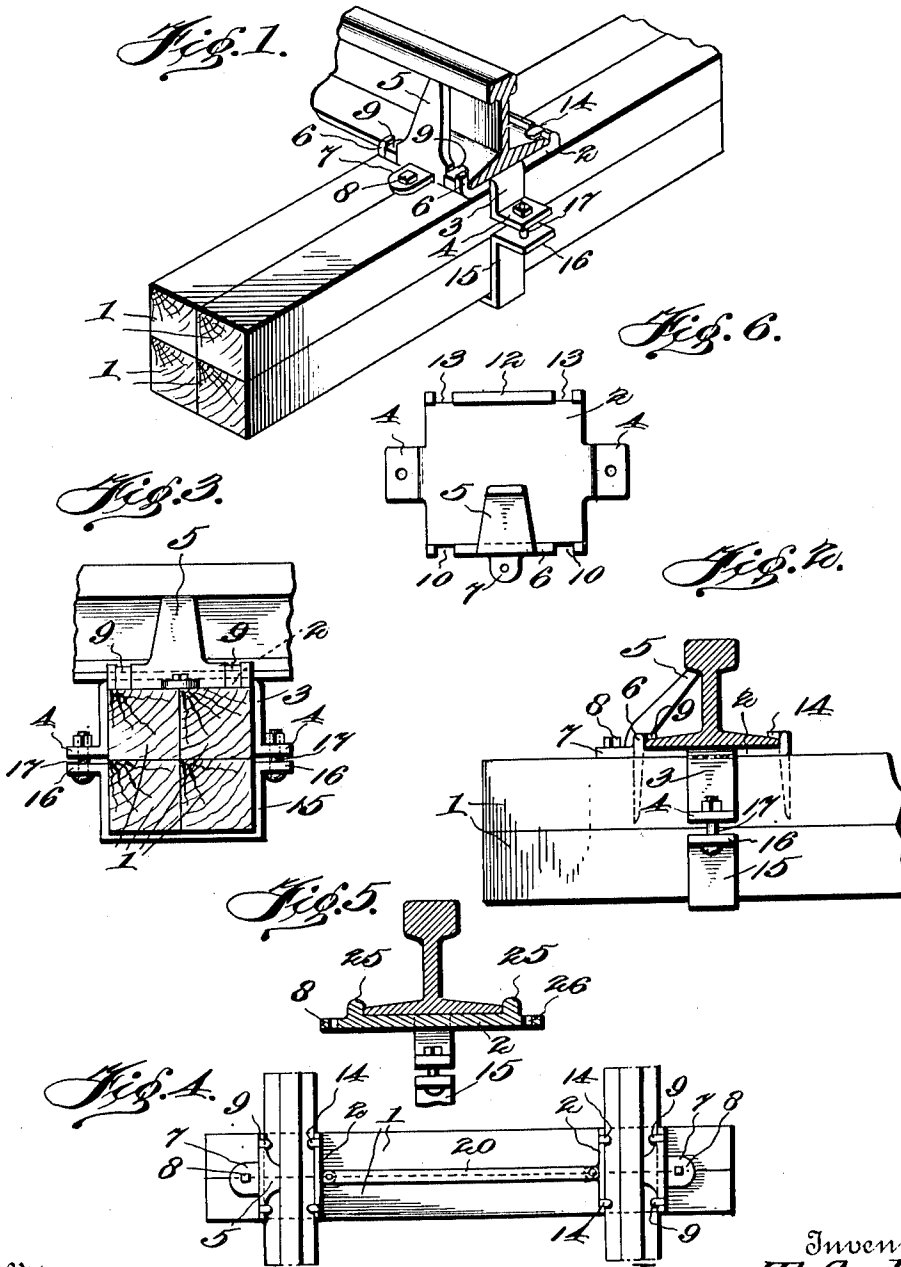


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 CHAIR OR SUPPORT FOR RAILWAY RAILS.
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Patented May 13, 1913.



Witnesses
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UNITED STATES PATENT OFFICE.

JAMES T. ANDREW, OF MONTGOMERY, ALABAMA.

CHAIR OR SUPPORT FOR RAILWAY-RAILS.

1,061,801.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JAMES T. ANDREW, a citizen of the United States, residing at Montgomery, in the county of Montgomery and State of Alabama, have invented certain new and useful Improvements in Chairs or Supports for Railway-Rails; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to chairs or supports for railway rails especially adapted for use in connection with sectional cross ties made of young timber, and has for its object to produce a device of this nature, which will be more efficient in action, more simple in construction, and of a comparatively less cost to manufacture than other devices of this nature which have been heretofore proposed.

To these ends, the invention consists in the novel details of construction and combination of parts more fully hereinafter disclosed and particularly pointed out in the claims.

Referring to the accompanying drawings forming part of this specification, in which like numerals designate like parts in all the views:—Figure 1 is a perspective view of a sectional cross tie, provided with my invention. Fig. 2 is a cross-sectional view of the parts shown in Fig. 1. Fig. 3 is a side elevational view of the parts shown in Fig. 2. Fig. 4 is a plan view of a tie and a portion of a pair of rails showing a slightly modified form of my invention. Fig. 5 is a sectional view of a still further modified form of my invention. Fig. 6 is a plan view of a portion of my chair detached from the cross tie.

1 indicates a plurality of separate sectional members, preferably four in number, from which my tie is made.

2 indicates a casting adapted to rest upon the tie, and provided with lugs 3, having the perforated ears 4, as shown. The said casting 2 is also preferably provided with the brace or support 5, extending from one side thereof, and adapted to rest under the head of the rail, as well as the lug or flange 6 adapted to give additional support to the bottom edge of the rail. Extending from the support 5, I prefer to provide the additional lug 7. Through said lug 7 I may pass

the spike 8, and through the cut-away places 10 in the flange 6 I may pass the additional spikes 9 which are preferably driven to contact with the edge of the base of the rail, as illustrated, thus jamming the rail firmly against the opposite spikes 9 or flange, as the case may be. On the side opposite the support 5, I preferably provide the flange 12, similar to the flange 6, and having the cut away places 13 to accommodate the spikes 14. The cut away portions 10 and 13 extend sufficiently into the casting 2 as to permit the spikes 9 and 14 to contact with the edges of the base of the rail, and thereby securely hold it in place. Passing underneath the tie 1 is a U-shaped piece 15, also provided with the extensions 16, matching the perforated ears 4, and a bolt such as 17 is passed through each pair of ears 4 and 16, as best illustrated in Fig. 3. There being spaces left between said ears 4 and 16, as shown, the nuts of the bolts 17 may be tightened up in order to firmly draw all of the parts together.

In the modified form of construction shown in Fig. 4, I have joined the two castings 2 with a connecting rod 20, in order to more firmly hold them in place. Otherwise the structure is the same as that described above.

In the further modified form of construction shown in Fig. 5, I have omitted the support 5, and rest the base of the rail between two flanges or lugs 25, as illustrated, and have further added the additional lug 26 on the side opposite from the lug 8, in order that the casting 2 may be the more securely spiked to the tie.

In all the forms, it will be observed that the casting rests upon the sectional tie, and the bolts 17 firmly draw the parts 4 and 16 together, and thereby increase the efficiency of the strap surrounding the tie.

It is obvious that those skilled in the art may vary the details of construction, as well as the arrangement of parts without departing from the spirit of my invention, and therefore I do not wish to be limited to the above disclosures, except as may be required by the claims.

I claim—

1. The combination of a sectional tie and a rail chair provided with supporting flanges and downwardly extending members partially surrounding the tie, having perforated ears; a U-shaped member having per-

forated ears coacting with said downwardly extending members and first mentioned ears to completely encircle the tie; means for securing said ears together; and a perforated
5 lug extending from said chair adapted to receive a spike, substantially as described.

2. The combination of a sectional tie and a rail chair provided with supporting flanges having cut-away portions adapted to receive
10 spikes, and downwardly projecting members having perforated ears partially encircling the tie; a U-shaped member having perforated ears coacting with said first mentioned ears to completely encircle said tie; bolts
15 passing through said ears; a perforated lug extending from said chair adapted to receive a spike; and a rail support also extending from said chair, substantially as described.

20 3. The combination of a pair of rail chairs

each provided with a base having cut-away portions adapted to receive spikes and downwardly projecting members having perforated ears adapted to partially encircle
the tie; a U-shaped member for each chair 25 having perforated ears adapted to coact with said first mentioned ears to completely encircle the tie; bolts passing through said ears; a perforated lug extending from each chair adapted to receive a spike; a rail support rising from each chair and lug; and a
30 rod connecting said chairs, substantially as described.

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

JAMES T. ANDREW.

Witnesses:

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