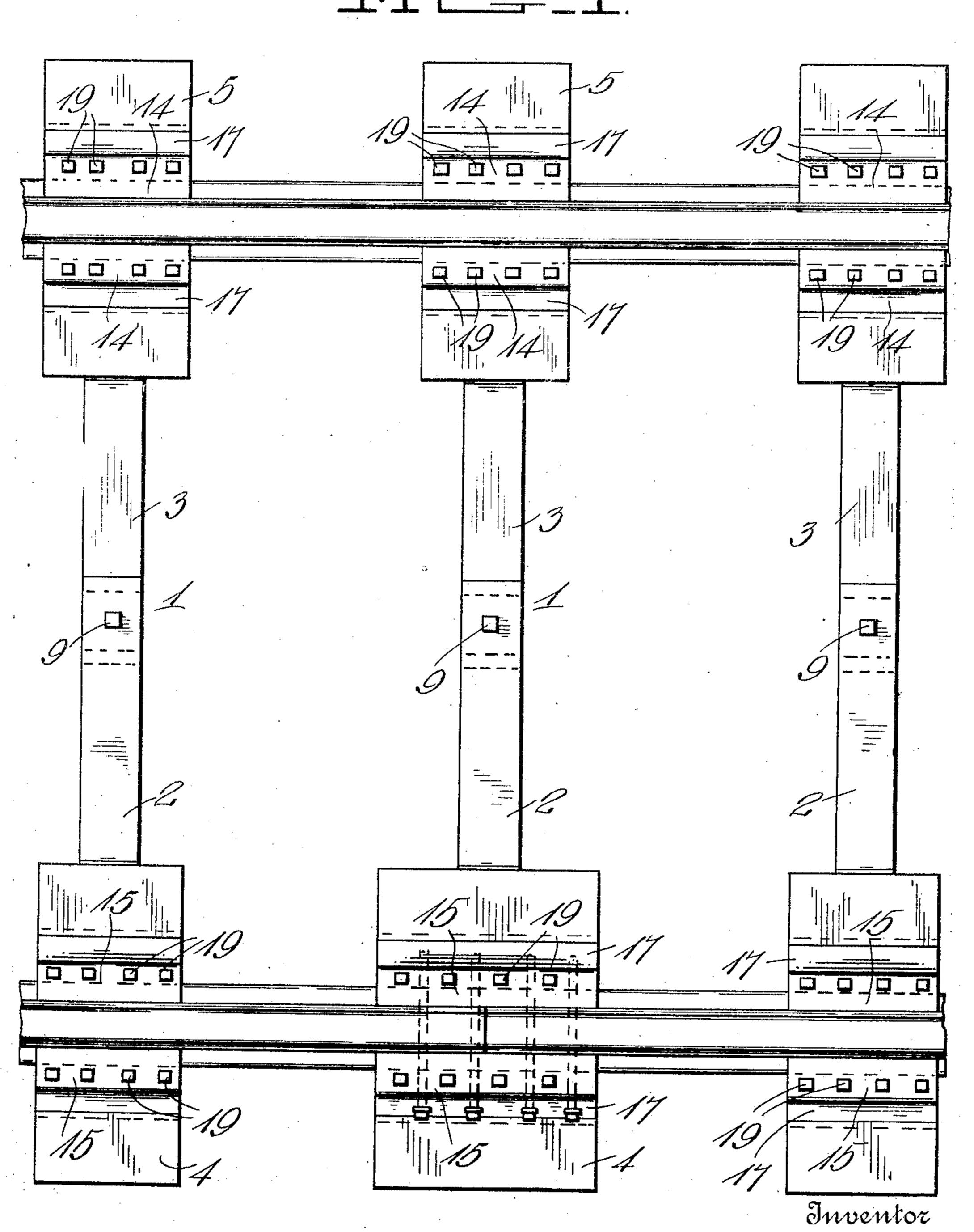
R. A. NEATHERLAND. RAILROAD JOINT SUPPORTER. APPLICATION FILED OCT. 3, 1910.

983,752.

Patented Feb. 7, 1911.

2 SHEETS-SHEET 1.



Witnesses

L.B. James

R.A Weatherland

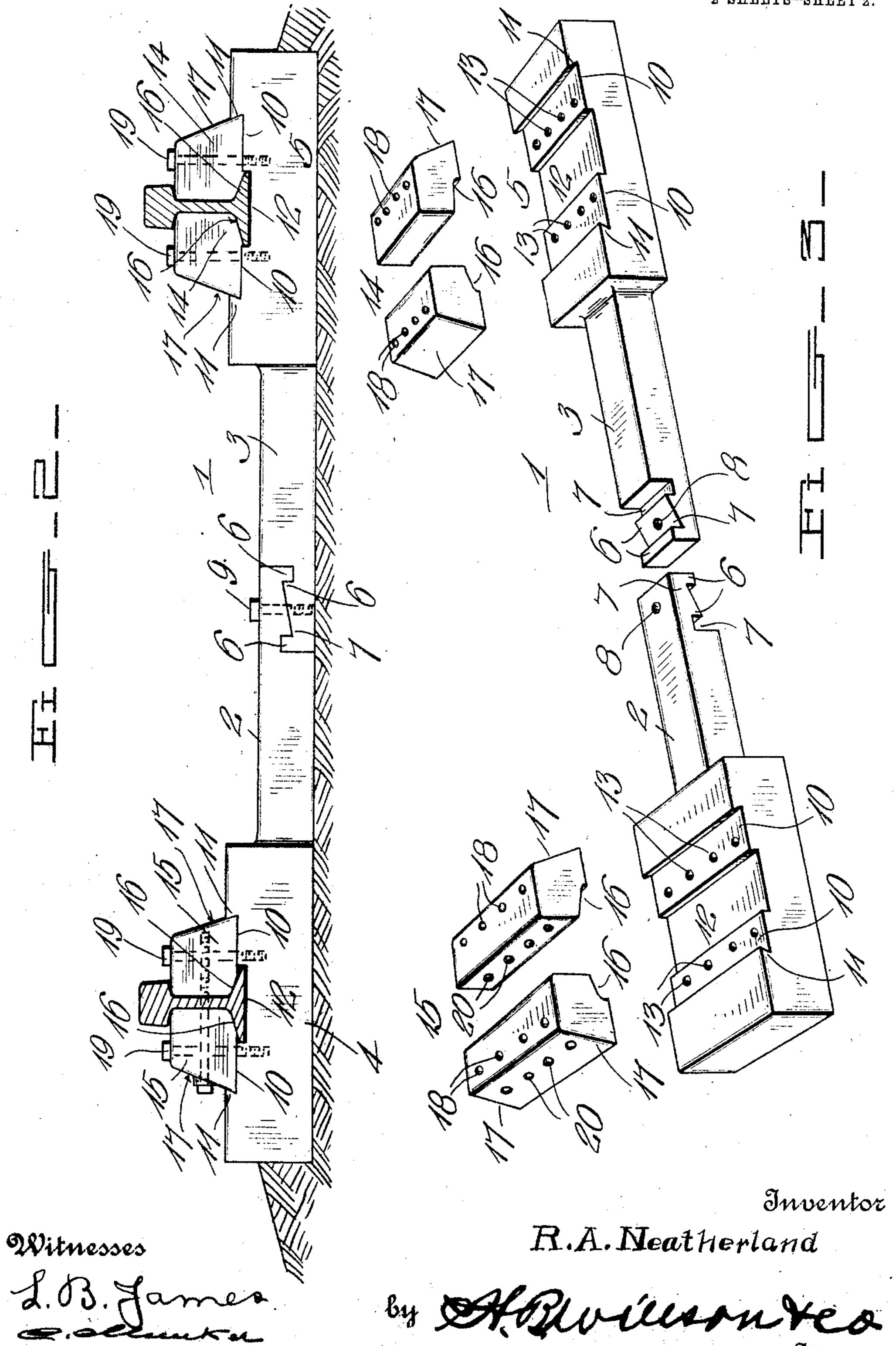
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2 SHEETS-SHEET 2.



UNITED STATES PATENT OFFICE.

RANKEN AQUILLAS NEATHERLAND, OF JONESBORO, LOUISIANA, ASSIGNOR OF ONE-HALF TO LLOYD S. JONES, OF JONESBORO, LOUISIANA.

RAILROAD-JOINT SUPPORTER.

983,752.

Specification of Letters Patent.

Patented Feb. 7, 1911.

Application filed October 3, 1910. Serial No. 585,085.

To all whom it may concern:

Be it known that I, RANKEN A. NEATHER-LAND, a citizen of the United States, residing at Jonesboro, in the parish of Jackson and 5 State of Louisiana, have invented certain new and useful Improvements in Railroad-Join Supporters; and I do 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 improvements in

combined rail chairs and ties.

One object of the invention is to provide an improved rail chair and tie constructed and arranged in such manner as to effectively prevent the spreading of the rails and which provides an efficient joint or connection for the meeting ends of the rails.

Another object is to provide a combined chair and tie of this character which may be readily released to permit the removal of

the rail.

In the accompanying drawings, Figure 1 is a plan view of a portion of two railway rails showing the application of the invention thereto. Fig. 2 is a side view of my invention illustrating the application of the invention to the rail, the latter being shown in section. Fig. 3 is a perspective view of one of the combined ties and rail supporting chairs showing the parts separated.

Referring more particularly to the drawings, 1 denotes my improved combination 35 tie and rail chair which comprises a tie portion formed in two sections 2 and 3 on the outer ends of which are arranged integrally formed rail supporting chairs 4 and 5, the sections 2 and 3 of the tie portion of the in-40 vention having formed in their inner ends interlocking lugs and notches 6 and 7 whereby said ends of the sections have an interlocking connection. Through said notched and recessed ends of the sections are formed 45 alined bolt holes 8 with which is adapted to be engaged a fastening bolt or screw 9 whereby said ends of the sections are rigidly secured together.

The chairs 4 and 5 on the outer ends of the 50 tie sections 2 and 3 are of the same size and structure as the devices used between the joints or meeting ends of the rails but in the devices used at the joints or meeting ends of the rails the chair 4 upon which the 55 joint rests, is preferably of greater width

than the chair 5 at the opposite end which supports the intermediate portion of the rail. This arrangement of devices is clearly illustrated in Fig. 1 of the drawing. Each of the chairs 4 and 5 comprises a rectangular block 60 of suitable length and width and of greater thickness than the tie portions 2 and 3 and in the upper surface of the blocks 4 and 5 are formed transverse grooves or channels 10, the opposite edges of which are beveled 65 or inclined thus forming overhanging or angular shoulders 11, the purpose of which will be hereinafter described. In the central portion of the grooves 10 are formed transverse depressions or channels 12 which 70 provide seats in which the rails are engaged when placed on the chairs. In the grooves or channels 10 adjacent to and along the edges of the grooves 12 are formed a series of threaded sockets 13, the purpose of which 75 will be described.

Adapted to be engaged with the grooves or channels 10 and engaged with the opposite sides of the rails are bracing blocks 14 and 15, said blocks having formed in their 80 lower surfaces adjacent to their inner sides recesses 16 which are adapted to engage the upper surfaces of the base flanges of the rails when the blocks are arranged in operative position on the chairs. The blocks 14 85 are also provided with inclined outer walls 17 the lower portions of which are engaged by the angular shoulders 11 formed by the end walls of the grooves or channels 10 in the chairs, said shoulders thus forming lock- 90 ing devices for firmly holding the bracing blocks against lateral movement and thus preventing the spreading or upsetting of the rails. The blocks 14 and 15 are further provided with a series of vertically dis- 95 posed bolt holes 18 which aline with the threaded sockets 13 in the chairs and are adapted to receive fastening bolts or screws 19 which are inserted therethrough and screwed into engagement with the threaded 100 sockets thereby forming additional means for firmly securing the bracing blocks in position.

In the bracing blocks 16 which are used in connection with the chairs 4 at the joint 105 of the rails, are formed transversely disposed bolt holes 20 which, when the blocks are in position, aline with the bolt holes in the ends of the rails and through said alining holes are adapted to be inserted clamp- 110

i bolts or serews whereby the blocks 15 a: drawn up and screwed into tight engagement with the ends of the rails thereby securely fastening said ends together and to

5 the shoulders 4.

By constructing my improved rail chairs and ties as herein shown and described, it will be readily seen that the rails will be securely held in the road bed and will be 10 prevented from spreading or creeping and that when it is desired to remove a section of the rails the bracing blocks securing the latter may be quickly and easily disengaged from the chairs and rails and the latter 15 thus released without disturbing any of the other parts of the railway.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the inven-20 tion will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and minor details of construction may be resorted to without departing from the 25 spirit or sacrificing any of the advantages of the invention as defined in the appended claims.

What is claimed is:

1. In a combined railway tie and chairs, 30 a tie portion formed in separable sections, means to form an interlocking connection between the inner ends of said sections, rail chairs formed integrally with the outer ends of said tie sections, said chairs comprising 35 blocks having formed therein transversely disposed channels, said channels having angularly formed side edges which provide overhanging shoulders, said blocks also having formed therein a series of threaded sockets, rail engaging seats formed in the centers of said channels, rail bracing blocks adapted

to be engaged with said channels and with the webs and base flanges of the rails, and fastening bolts adapted to be inserted through said blocks and screwed into en- 45 gagement with the threaded sockets in said chairs.

2. In a combined railway tie and chairs, a tie portion formed in separable sections, said sections having on their inner ends a 50 series of grooves and recesses, a fastening bolt adapted to be engaged with the inter-locked inner ends of said tie sections, a rail chair formed on the outer end of one of said tie sections, a rail joint chair formed on the outer 55 end of the opposite tie sections, said chairs having formed therein transversely disposed grooves and a series of threaded sockets, angular stop shoulders formed on the outer edges of said channels, rail engaging seats formed 60 through the centers of said grooves, rail bracing blocks adapted to be engaged with the chair of one of said tie sections and the rail, bracing blocks adapted to be engaged with the groove or channel of said rail joint 65 chair, said blocks having formed therein a series of vertically disposed bolt holes adapted to aline with the threaded sockets in said chairs, fastening bolts arranged in said holes and sockets, said joint chair blocks 70 having formed therethrough a series of transversely disposed bolt holes adapted to aline with the bolt holes in the rails, a series

through said transverse holes in the blocks. 75 In testimony whereof I have hereunto set my hand in presence of two subscribing

of rail fastening bolts adapted to be inserted

witnesses.

RANKEN AQUILLAS NEATHERLAND. Witnesses:

HOPE WATTS, J. R. CARVER.