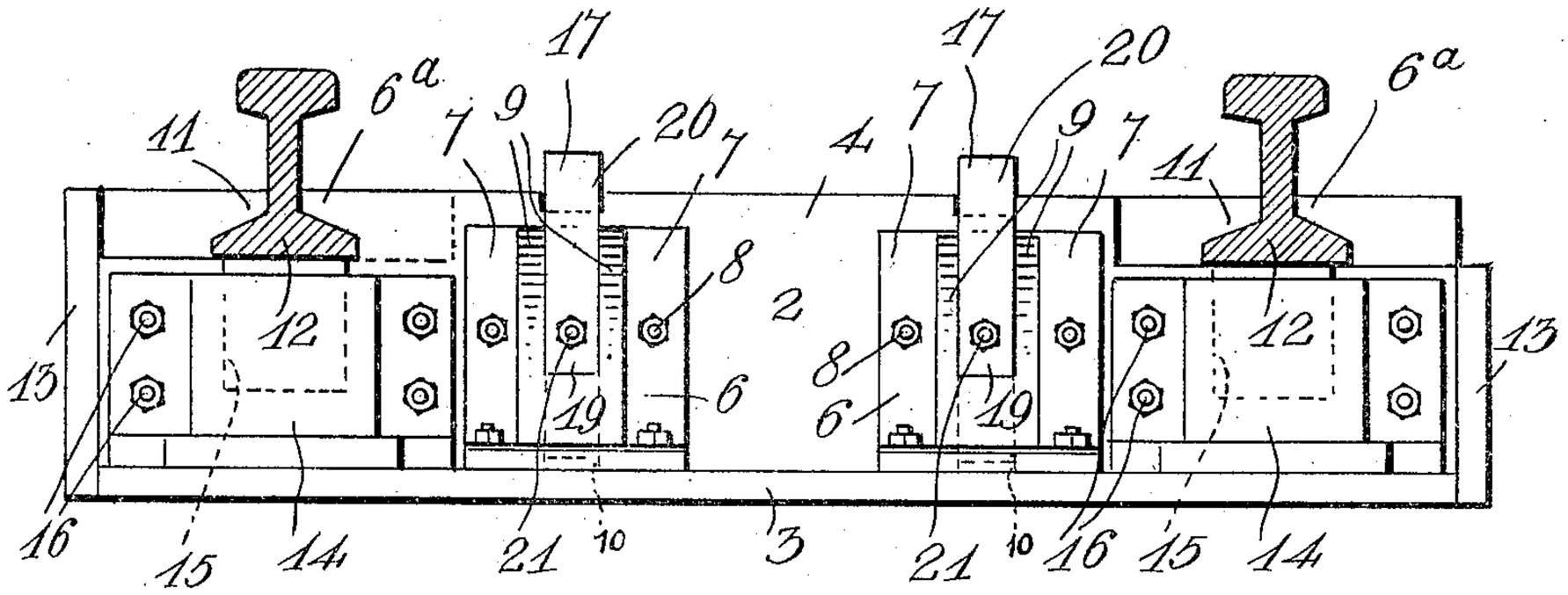
No. 819,481. PATENTED MAY 1, 1906.

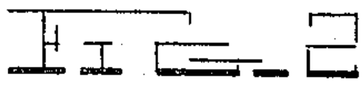
E. WHEELER.

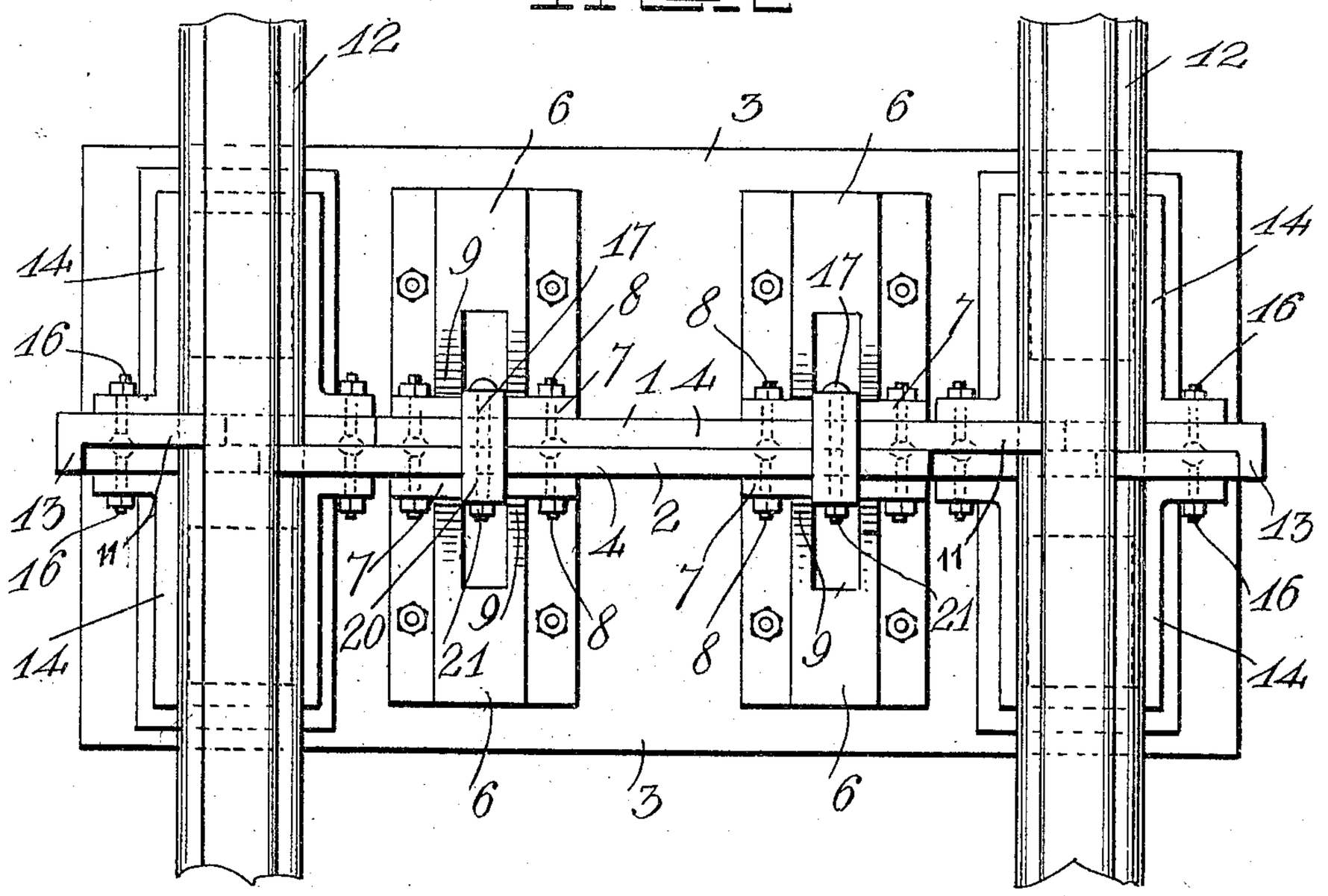
METALLIC RAIL TIE AND CHAIR.

APPLICATION FILED FEB. 12, 1906.

2 SHEETS—SHEET 1.







Witnesses

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2 SHEETS—SHEET 2.

FIG. 2

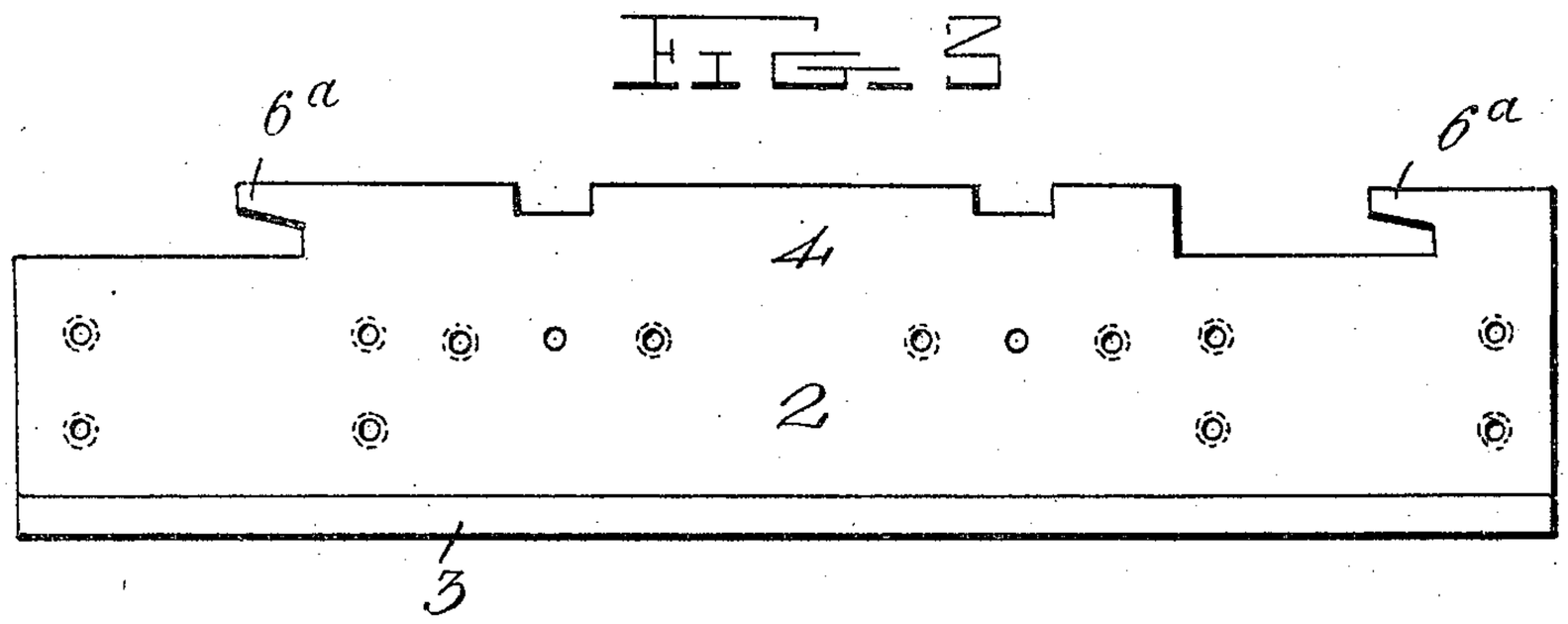

FIG. 4

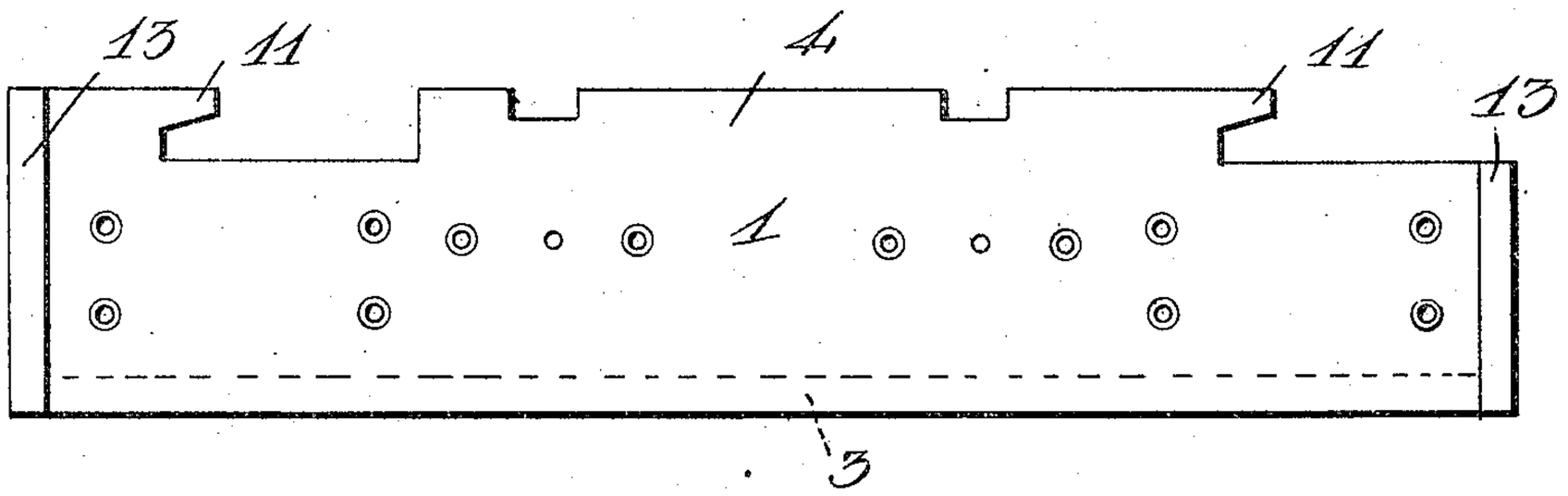

FIG. 5

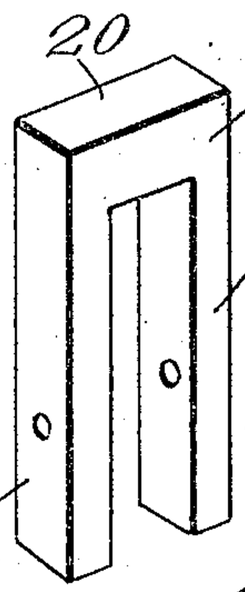

FIG. 6

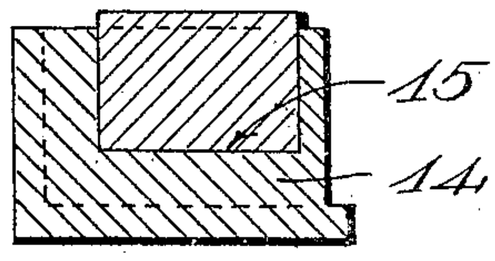

FIG. 7

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UNITED STATES PATENT OFFICE.

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METALLIC RAIL TIE AND CHAIR.

No. 819,481. Specification of Letters Patent. Patented May 1, 1906.

Application filed February 12, 1906. Serial No. 300,650.

To all whom it may concern:

Be it known that I, EZEKIEL WHEELER, a citizen of the United States, residing at Kingfisher, in the county of Kingfisher and Territory of Oklahoma, have invented certain new and useful Improvements in Metallic Rail Ties and Chairs; 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 metallic rail ties and chairs; and one of the principal objects of the same is to provide strong, durable, and efficient means for holding the rails at the proper distance apart and to provide a simple locking means for the two members of the tie or chair which can be quickly removed and readily placed in position.

Another object is to provide a combined rail tie and chair with a cushioning device for the rails, said cushioning device serving also to deaden the noise of the cars passing over the tracks.

These and other objects are attained by means of the construction illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of a tie and chair made in accordance with my invention. Fig. 2 is a plan view of the same. Fig. 3 is a side view of one of the members of said tie and chair. Fig. 4 is a similar view of the other member thereof. Fig. 5 is a perspective view of one of the keys for locking the two members together. Fig. 6 is a sectional view taken through one of the cushioning and sound-deadening devices for supporting the rails, and Fig. 7 is a transverse sectional view.

Referring to the drawings for a more particular description of my invention, the numeral 1 designates one of the members of the tie and chair, and 2 is the other member thereof. These two members of the device are of substantially the same construction, and hence a description of one will serve for both.

The member 1 comprises a base 3 and an angular supporting plate or chair 4, integral therewith or secured thereto. This base and chair may be conveniently formed of wrought metal rolled into shape. The chair 4 is provided with knees or braces 6, said knees provided with flanges 7, bolted at 8 to the chair and to the base, as shown. The braces are provided with spaced lugs 9, having a recess 10 extending downward through the foot of the brace. Two of said braces are preferably employed, and they are located at points contiguous to the recesses 10, formed in the upper edge of the chair. At points outside the braces are hooks or lugs 11, adapted to catch over one flange 12 of the rail. At the ends of the member 1 cleats or stops 13 extend from the top to the bottom thereof, and cushion-boxes 14 are provided with recesses 15 for a cushioning and sound-deadening material, such as a wooden block, a block of rubber, a piece of felt, or other non-resonant material. These cushion-boxes may be secured by bolts 16 to the member 2 or the base 3, or both. The member 2 is substantially like the member 1, excepting that the end cleats or stops are omitted, and said member 2 fits snugly against the member 1, with the ends terminating within the cleats or stops, and the lugs 6^a extend oppositely to the lugs on the member 1 for securing the flange of the rail in place upon the cushion-blocks. The locking-keys 17 are of substantially U shape, comprising two legs 18 19 and the crown portion 20, said legs being substantially rectangular in cross-section and adapted to straddle the two members 1 2 and closely hug the two sides to hold them together. The crown portions of the keys fit in the registering recesses in the upper edges of the chair, and said legs extend down between the two lugs of the braces or knees and are secured in place by means of a bolt 21, extending through the legs and through the upright chair members to hold the same in place.

To assemble the parts, the two members 1 2 are brought together in such way as to clamp the lower flanges of the rails, and the keys are inserted and bolted in place. To dismantle the device, the keys are removed and the two members separated.

From the foregoing it will be obvious that my rail tie and chair is of simple construction, can be quickly installed, is strong and durable, will insure a firm holding of the rails at the proper distances apart, and cannot readily get out of order.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of

this invention as defined by the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A combined rail tie and chair comprising two members, each having a base and an upright chair portion, braces secured to the said parts and provided with spaced lugs, overhanging lugs for engaging the flanges of the rail, and keys adapted to straddle the two members and hold them in position, said keys extending between the two lugs of the braces, substantially as described.

2. A combined rail tie and chair comprising two members, one of which is provided with end cleats or stops, and the other fitted within the cleats or stops, said members each having registering recesses at their upper edges and overhanging lugs to engage the flanges of the rail, and keys fitted into said recesses and held in place by bolts, substantially as described.

3. A combined tie and rail chair comprising two members having overhanging lugs to engage the flanges of the rails, and keys for securing said two members together, cushion-boxes secured to said members, and cushions within said boxes to support the bottom of the rails, substantially as described.

4. A combined rail tie and chair comprising two members, each member having a cushioning device thereon to support the rails, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

EZEKIEL WHEELER.

Witnesses:
HERBERT C. EMERY,
C. H. GRIESBAUER.