

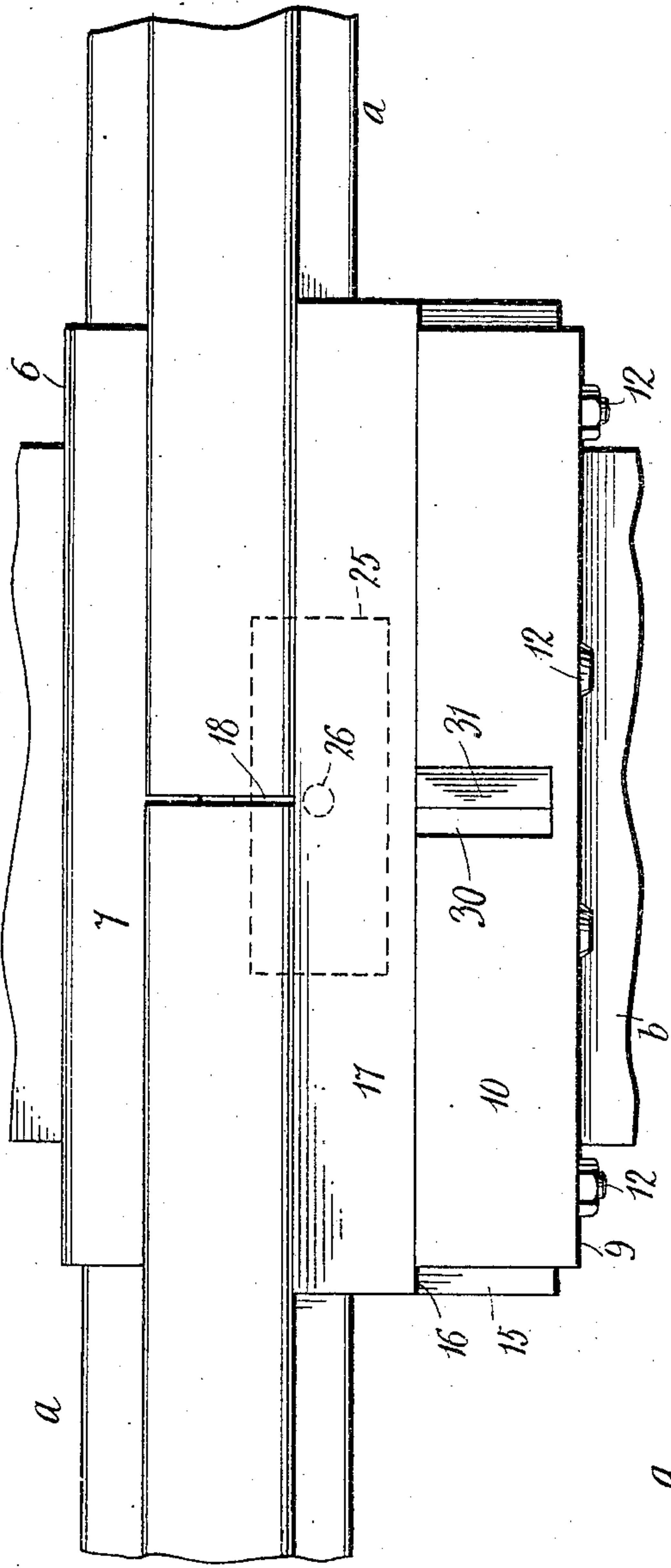
# RAIL CHAIR.

APPLICATION FILED AUG. 10, 1908.

**943,206.**

Patented Dec. 14, 1909.

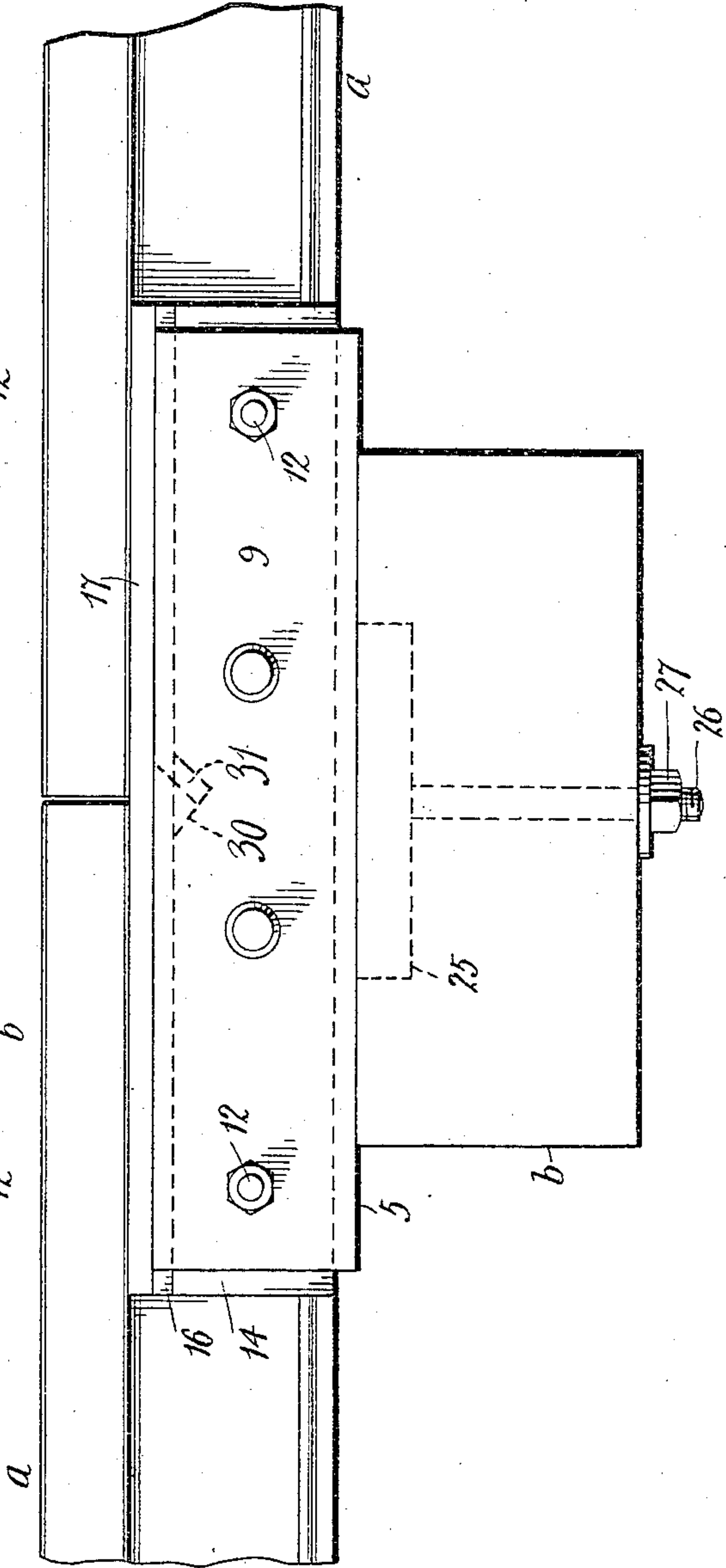
2 SHEETS—SHEET 1.



# THE

Witnesses

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M. T. Miller



# THE

Inventor

Albert Wardle

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A. WARDLE.

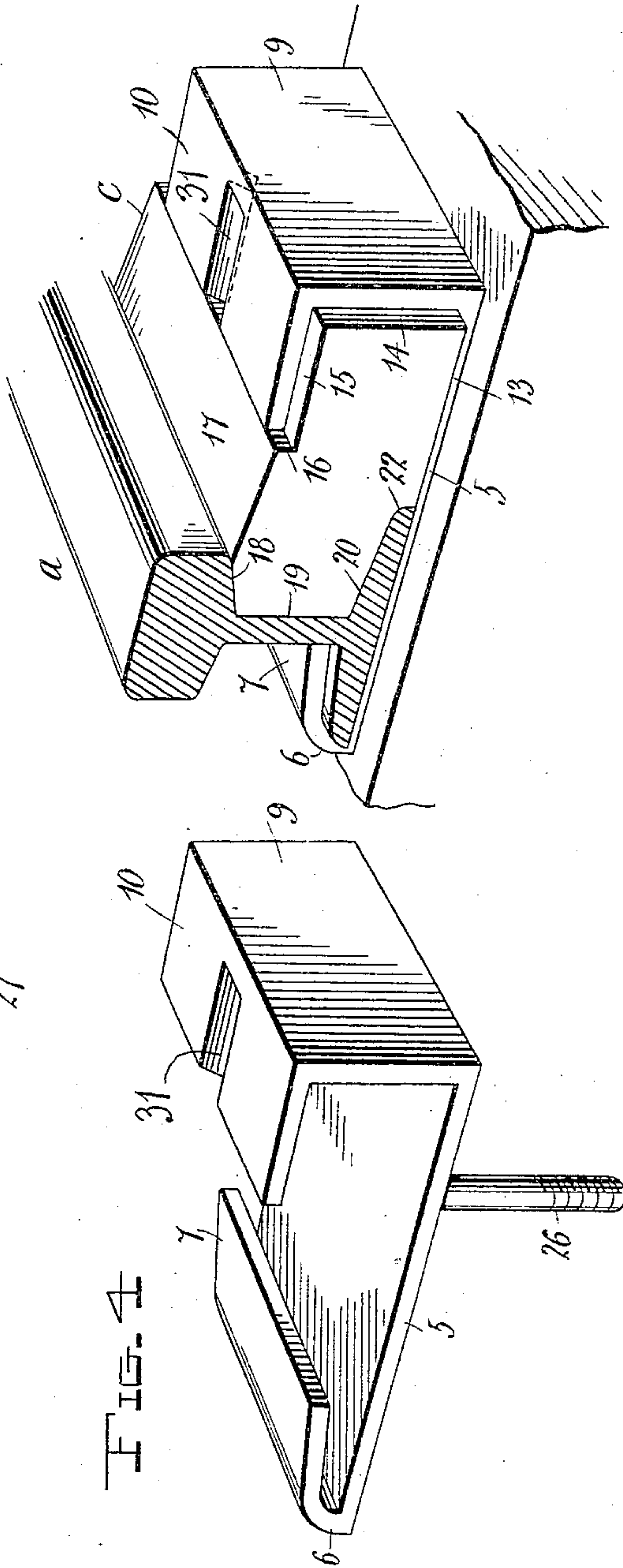
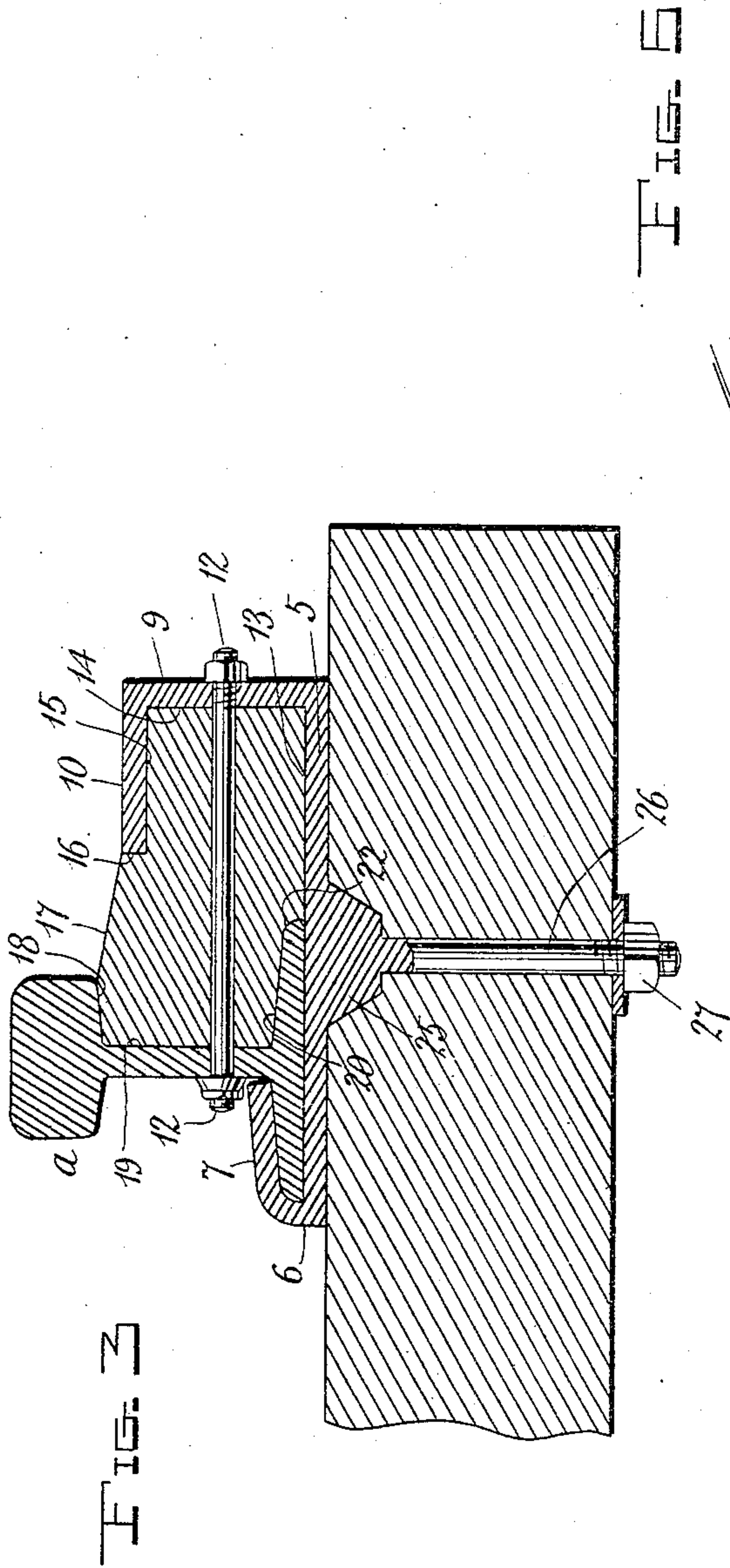
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2 SHEETS—SHEET 2.



Witnesses  
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# UNITED STATES PATENT OFFICE.

ALBERT WARDLE, OF TORONTO, ONTARIO, CANADA.

RAIL-CHAIR.

943,206.

Specification of Letters Patent.

Patented Dec. 14, 1909.

Application filed August 10, 1908. Serial No. 447,802.

*To all whom it may concern:*

Be it known that I, ALBERT WARDLE, a subject of the King of England, residing at Toronto, in the Province of Ontario, Dominion of Canada, have invented certain new and useful Improvements in Rail-Chairs; 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 certain new and useful improvements in rail chairs.

The object of my invention is, to provide a device whereby railway rails may be securely fastened to the ties or sleepers, as well as provide a means whereby the rail joints may be firmly secured.

In the accompanying drawings, Figure 1 is a top plan view of a rail chair constructed in accordance with this invention. Fig. 2 is a side elevation thereof. Fig. 3 is a transverse sectional view, and Fig. 4, a perspective view of the rail fastener. Fig. 5 is a perspective view of the rail fastener in use, a portion of a tie and rail being also illustrated.

The aim of my invention is to provide an anti-rattling means whereby a rail may be securely fastened to the tie, and in carrying out the aim of my invention I employ a chair comprising the base plate 5 having along one of its edges an upwardly extended flange 6 which is continued and inwardly inclined to form the flange 7, the edge of which is adapted to snugly engage the base of the rail. Along the opposite edge the base plate is bent to form the upstanding flange 9 which is continued and bent at right angles to form the flange 10. The upstanding flange 9 at suitable points is provided with bolt openings so that the usual bolts 12 will be employed in securing the rails.

In connection with my chair I use a plug preferably made of wood having the flat under portion 13, the side portion 14, the top 15, the shoulder 16 and the upwardly in-

clined portion 17 continued in the flat portion 18 adapted to snugly fit below the head of the rail, as shown. The remaining two side-portions 19 and 20 are adapted to ride against the web and upper portion of the flange of the rail *a*, a shoulder 22 being provided adapted to come against the bottom edge of the rail base, as clearly shown. This block or plug is also perforated so that the bolts 12 may be readily carried through the rail openings and the block and chair where the meeting ends of two rails are shown as shown in Figs. 1 and 2.

To prevent any longitudinal or lateral displacement of the chair I provide the base 5 at a suitable point along its under surface with the lug 25 in which is extended a suitable bolt 26 having a nut 27. The tie or sleeper is suitably recessed and perforated to receive the lug 25 and the bolt 26 so that the chair is firmly fixed to and forms practically a part of the tie. The plug or block is of such a size that the same must be driven into the chair to firmly force the rail into engagement with the upwardly and inclined flange portions 6 and 7. By means of the bolts 12, the plug is then firmly secured to the rail insuring a device that will deaden the vibrations of a passing train and thereby tend to more securely unite the instrumentalities, thereby lessening the liability of the nuts working loose and the parts from becoming detached.

In order to prevent longitudinal movement of the block 17 within the chair this block is provided with a substantially V-shaped recess 30 wherein is adapted to be seated a lip 31 formed by cutting the flange 10. This lip 31 is bent down into the recess 30 after the block has been positioned and thus serves to firmly hold the block from longitudinal movement within the chair.

And having thus described my said invention what I claim as new and desire to secure by U. S. Letters Patent is—

1. The herein described chair comprising a base plate having an upwardly and inwardly inclined projecting flange, an oppo-

sitely positioned upstanding flange bent horizontally inward, and a downwardly dipped lip within said horizontal flange.

2. In a chair of the class described the  
5 combination with a base plate having an upwardly and inwardly inclined flange, of an oppositely positioned upstanding flange having an upper horizontal portion, a downwardly dipped lip within said horizontal

portion, and a plug adapted to fit below said 10 horizontal portion having a socket to receive said lip, all arranged as set forth.

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

ALBERT WARDLE.

Witnesses:

N. McINTYRE,

B. CODY.