

J. J. GRIFFIN,
TIE, TRACK FASTENER, AND BRACE.
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923,969.

Patented June 8, 1909.

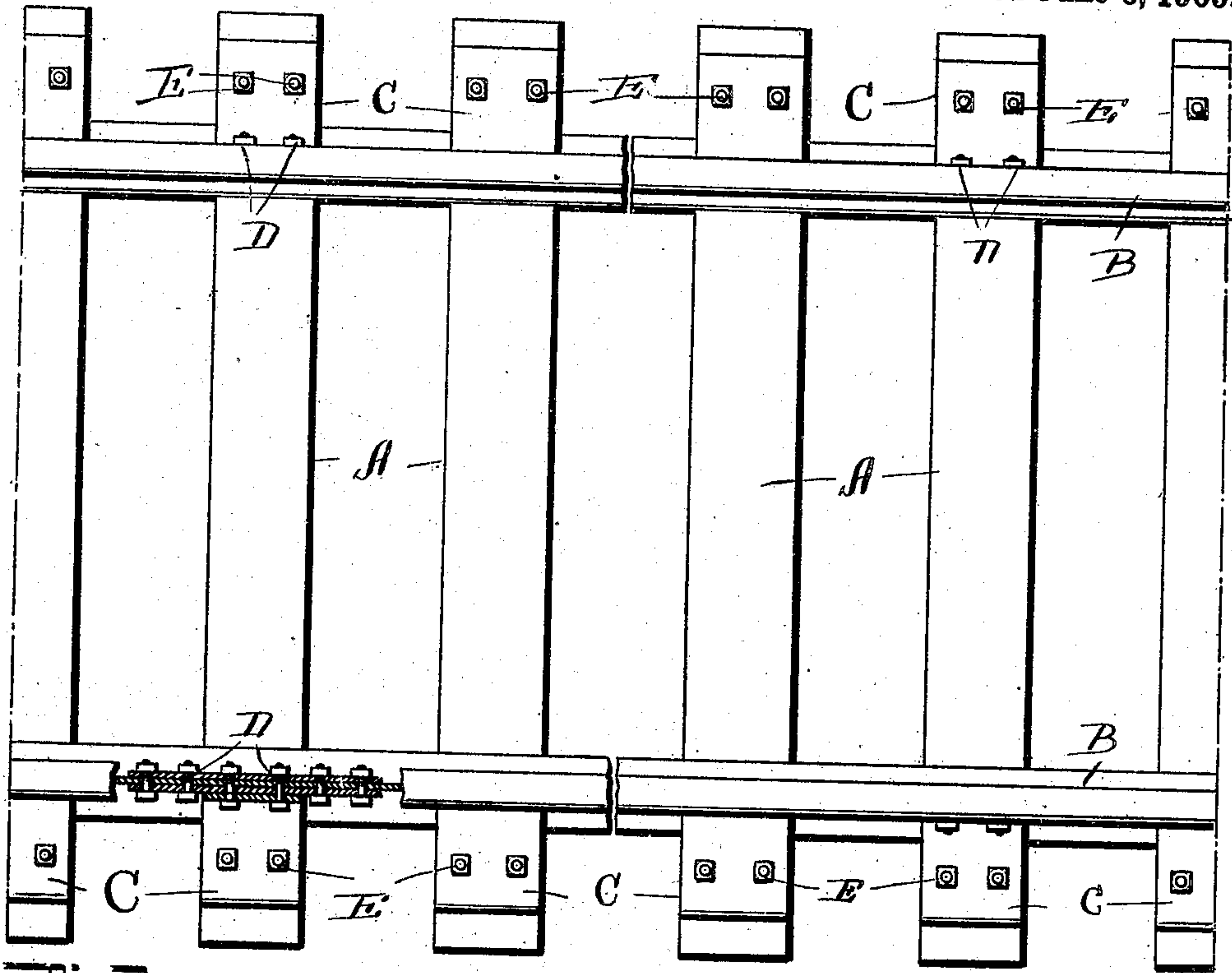


Fig. 1.

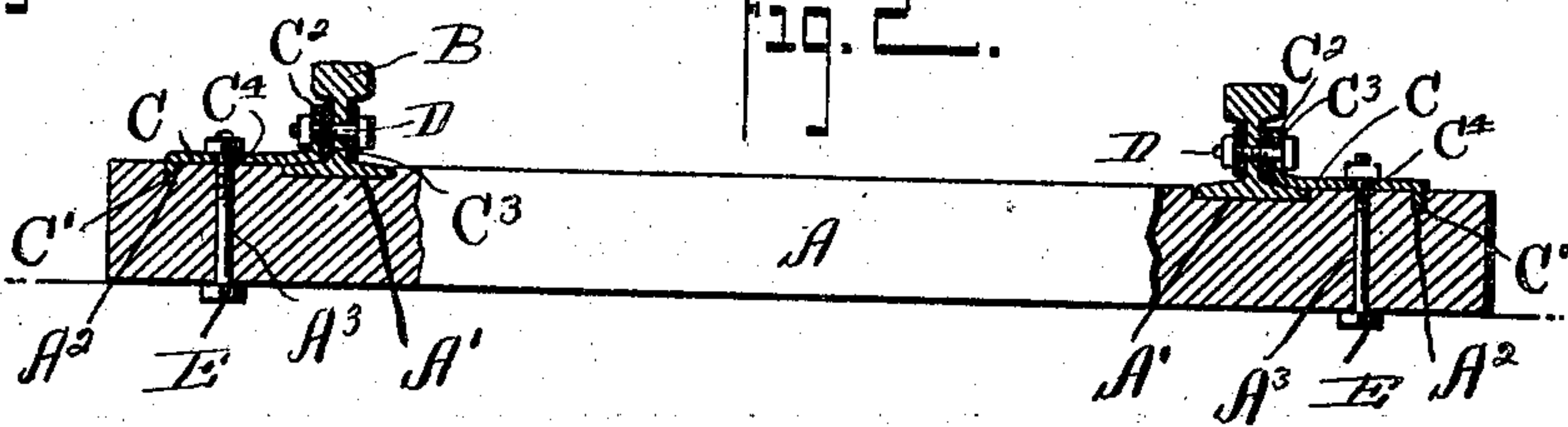


Fig. 2.

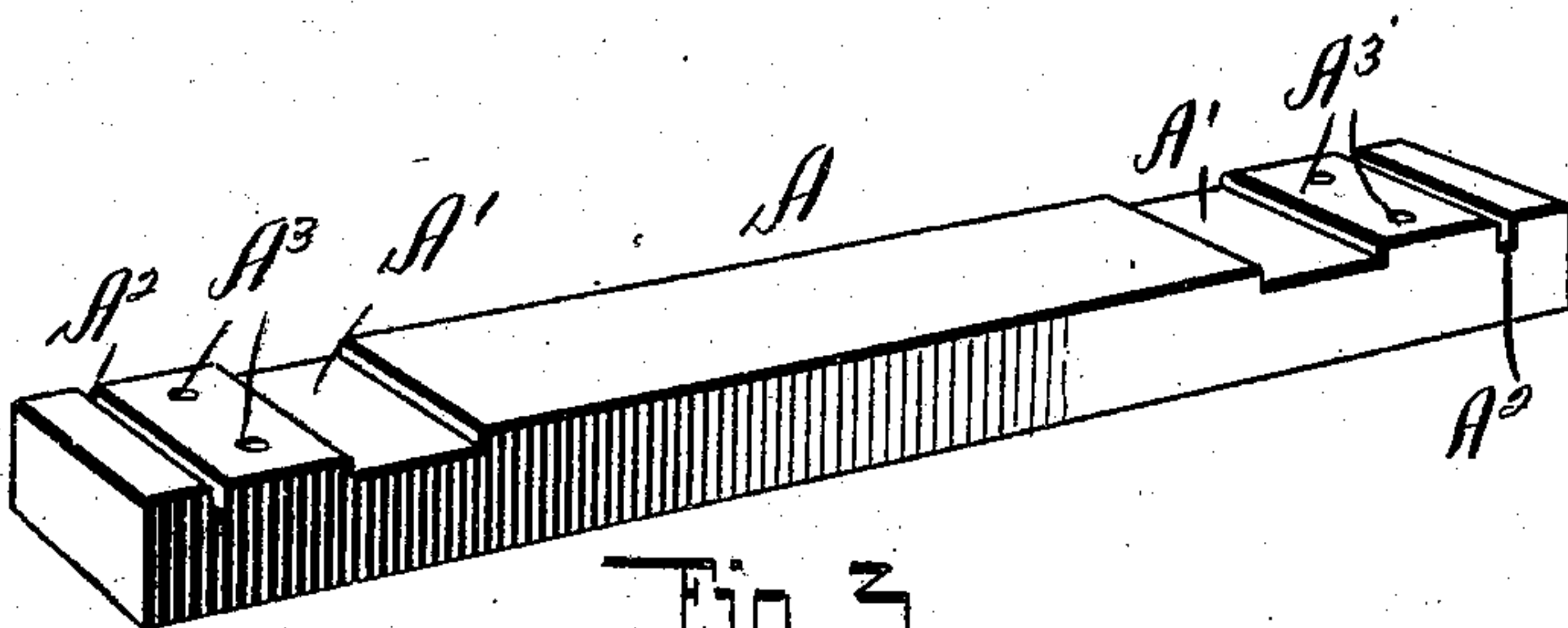


Fig. 3.

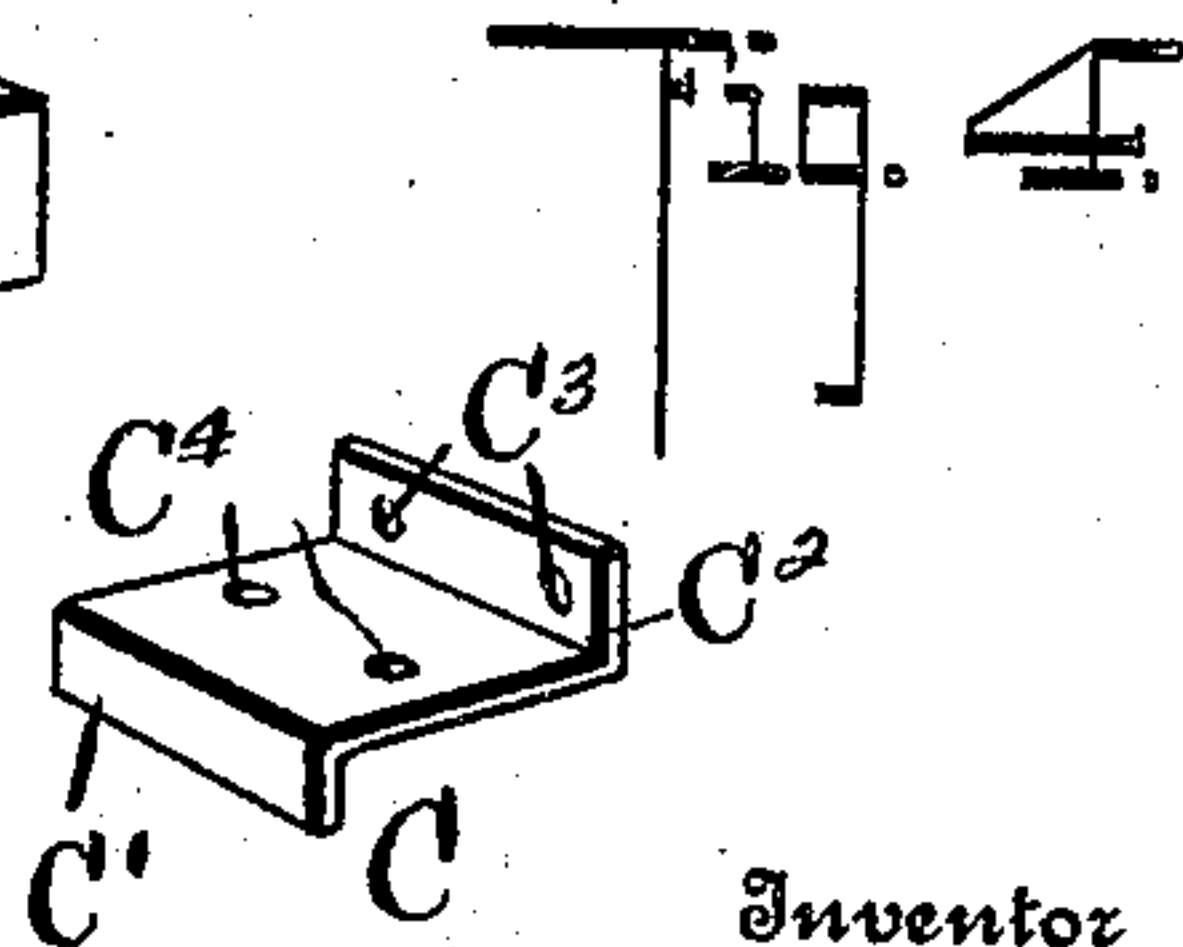


Fig. 4.

Witnesses

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JOHN J. GRIFFIN, OF SPARKS, GEORGIA.

TIE, TRACK-FASTENER, AND BRACE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN J. GRIFFIN, a citizen of the United States, residing at Sparks, in the county of Berrien and State of Georgia, have invented a new and useful Improvement in Ties, Track-Fasteners, and Braces, of which the following is a specification.

This invention relates to metallic ties, track-fasteners and brace, the object being to provide a tie and fastener which is very strong and durable and one which will securely hold the rails in place and prevent the same from moving in any way.

Another object of my invention is to provide very novel means for securing the fastener and brace to the tie and rail, so that once in place it will be impossible for the rails to move or spread.

A further object of my invention is to provide a tie with transverse grooves, in which the rails are seated, the ties also being provided with transverse grooves, in which the fastener and brace fit, so that when assembled, the rail and fastener will be securely locked.

With these various objects in view, the invention consists in the novel features of construction, combination and arrangement of parts, hereinafter fully described and pointed out in the claim.

In the drawing forming a part of this specification:—Figure 1 is a top plan view of a portion of a railroad track constructed in accordance with my improved invention. Fig. 2 is a side view of one of the ties, the ends being broken away showing the track fastener and brace, and rails in section. Fig. 3 is a perspective view of my improved tie, and Fig. 4 is a perspective view of my improved track fastener and brace.

In the drawings A indicates a metallic tie provided with a transverse groove A' in which the bases of the rails B are adapted to fit, the grooves being of such a depth that the top of the bases will be flush with the top of the rails, when in place. Ties are also provided with transverse grooves A², at

the outside of the grooves A', in which the flanged end of my improved track-fastener C is adapted to fit, the track fastener comprising a plate having its ends bent laterally in opposite directions to form flanged ends C', C² the flanged ends C' fitting in the grooves A² and the flanged ends C² fitting up against the web of the rail or the fish-plates, as the case may be, the flange C² being provided with spaced openings C³ through which the bolts D for securing the fish-plates in place, are adapted to pass. Spaced openings C⁴ are formed in the fasteners C, through which bolts E are adapted to pass which extend upwardly through vertical bores A³, formed in the tie between the grooves and secured in place by ordinary nuts.

In use I prefer to place the rails on the tie in such a manner that the joints are opposite each other, as shown, and it will be seen that after the rails are in place, and the track-fasteners and braces have been bolted down, the rails will be securely locked in the grooves, so that they cannot move, thereby preventing the creeping or spreading of the rails.

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

The combination with a tie having spaced transverse grooves formed in its top adjacent its ends of different width and depth, rails adapted to fit within the wider grooves, braces provided with oppositely disposed flanged ends arranged on the intermediate portion between said grooves and secured thereto by bolts passing vertically through the ties, the upwardly projecting flange of said brace being adapted to be secured against the web of a rail and the downwardly projecting flange of said brace fitting in the transverse groove of the tie.

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Witnesses:

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