

W. H. ROUND.
RAIL JOINT CHAIR.
APPLICATION FILED DEC. 24, 1910.

986,863.

Patented Mar. 14, 1911.

Fig. 1.

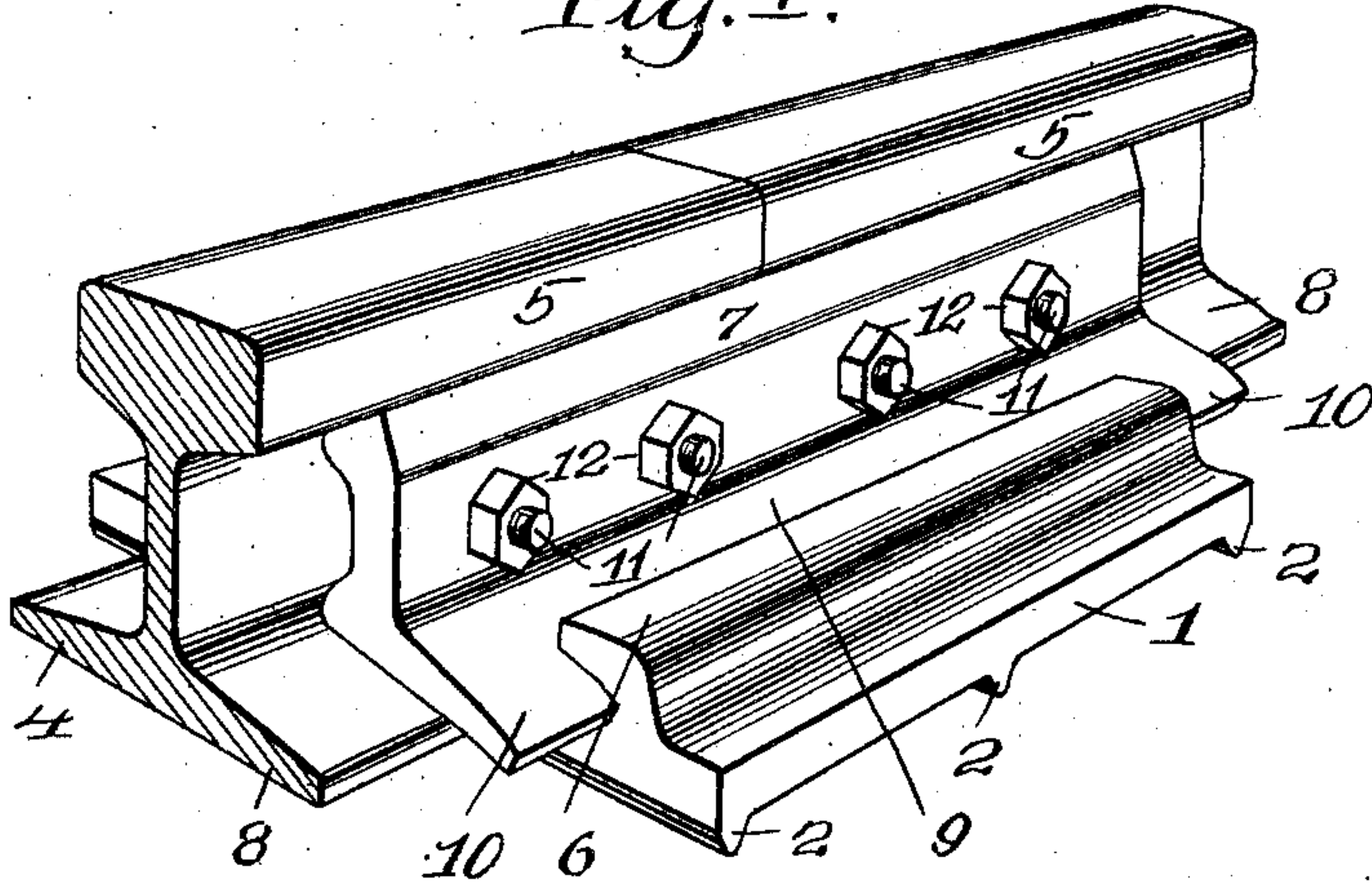


Fig. 2.

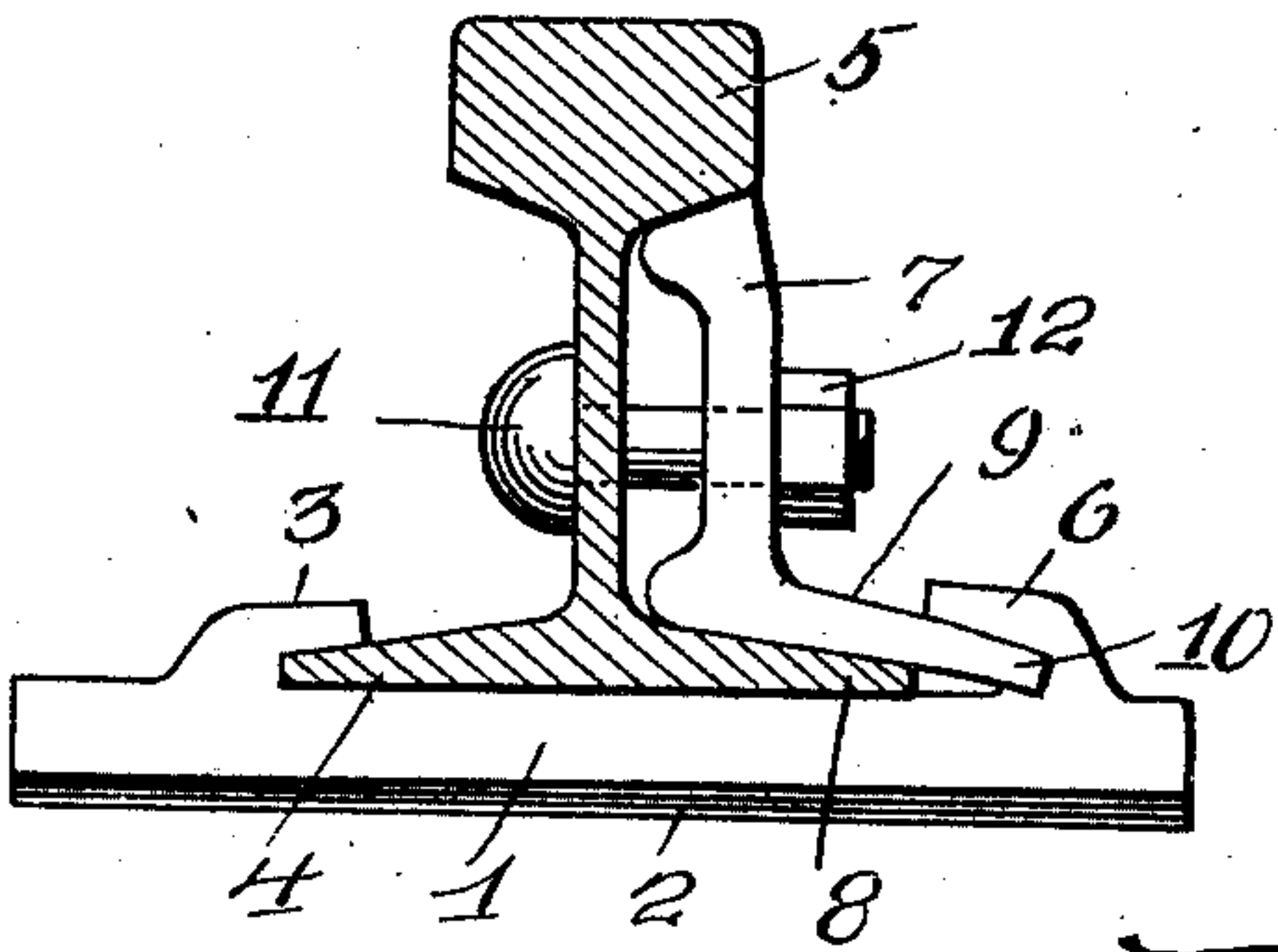


Fig. 3.

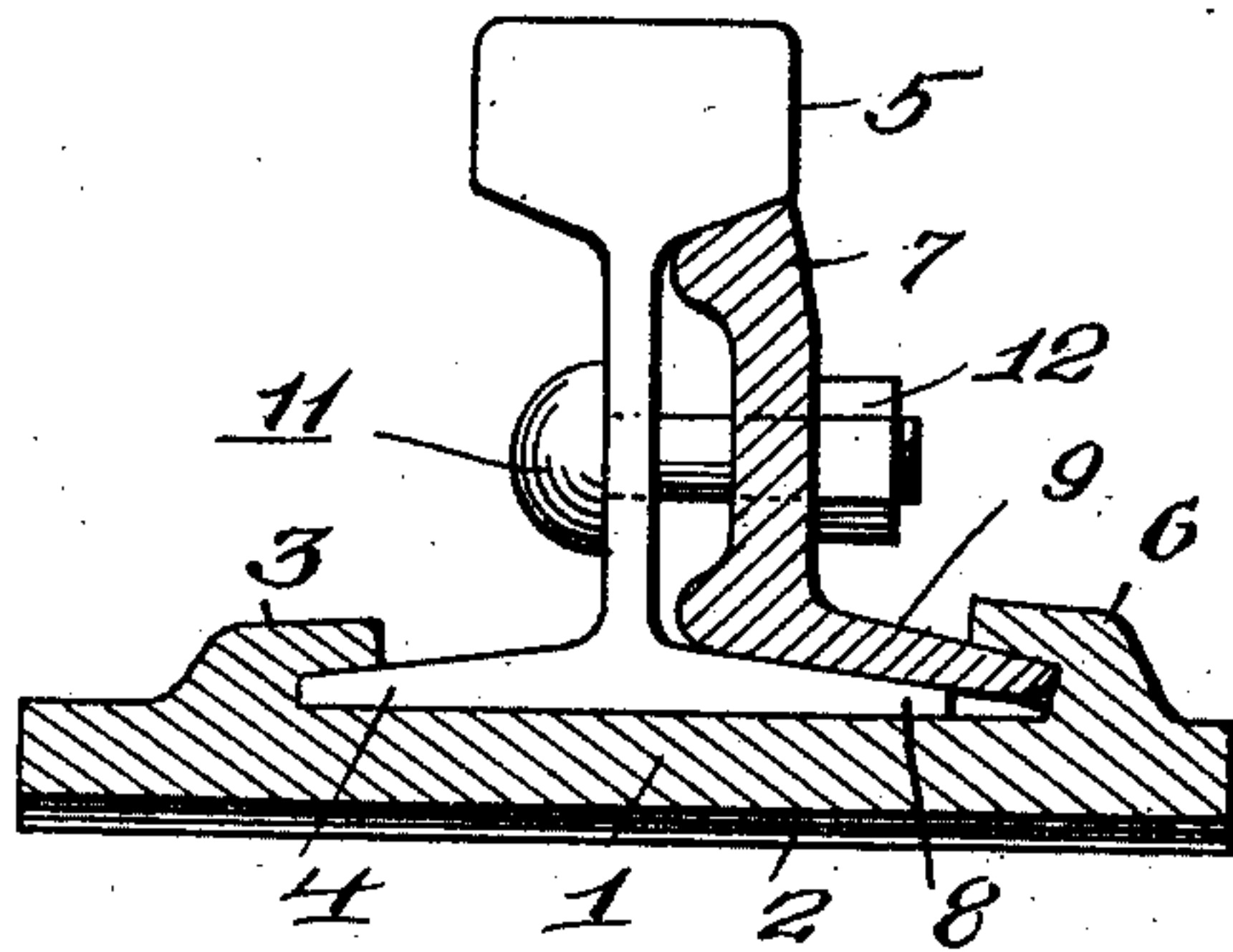
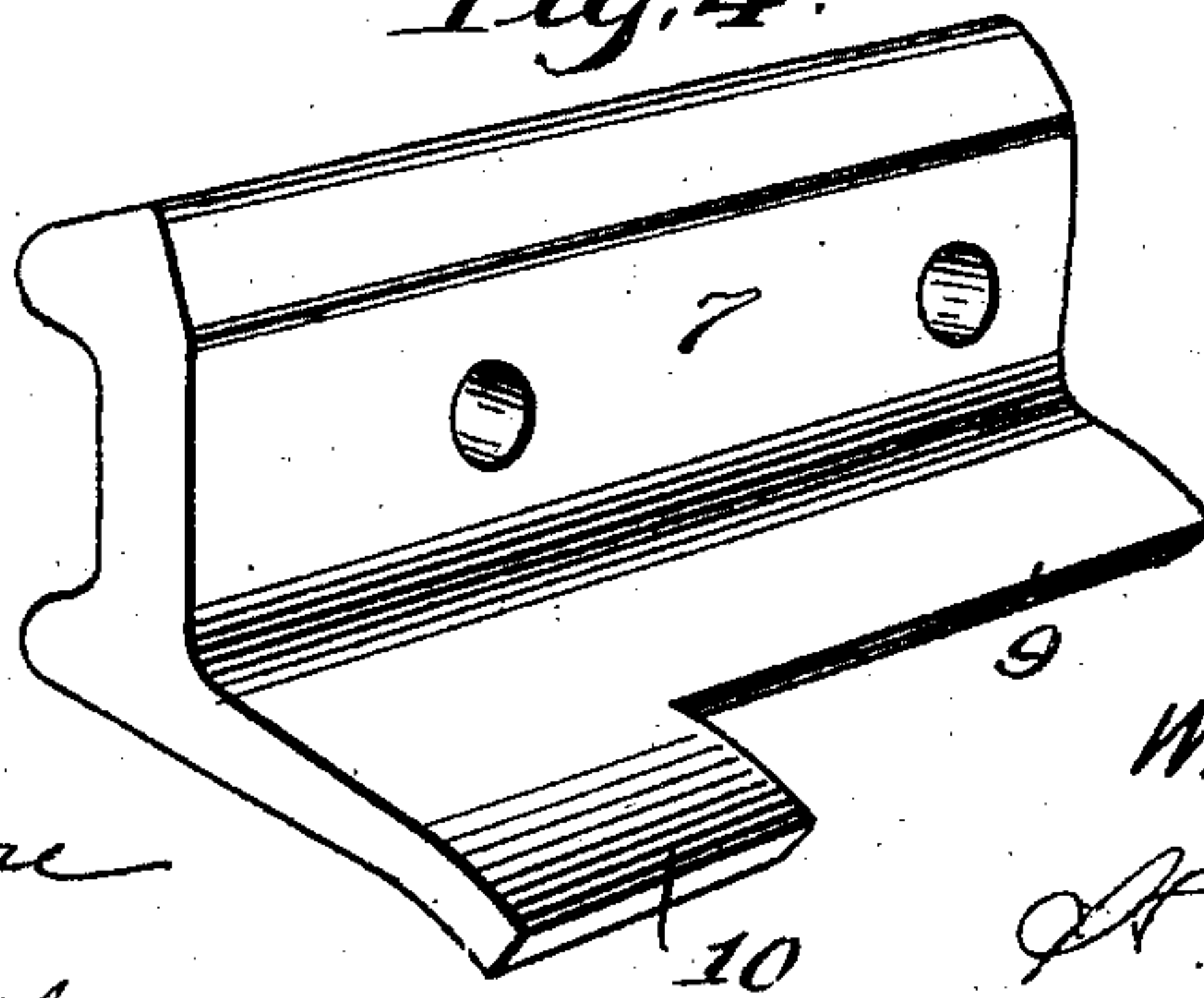


Fig. 4.



WITNESSES

Samuel Payne
K. H. Butler

INVENTOR

W. H. Round.

A. C. Everett

Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM H. ROUND, OF PITTSBURG, PENNSYLVANIA.

RAIL-JOINT CHAIR.

986,863.

Specification of Letters Patent. Patented Mar. 14, 1911.

Application filed December 24, 1910. Serial No. 599,164.

To all whom it may concern:

Be it known that I, WILLIAM H. ROUND, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Rail-Joint Chairs, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to railway joint chairs, and the objects of my invention are to provide a novel rail chair for supporting the confronting ends of two rails whereby the rails cannot become accidentally displaced, and to furnish a rail fastener that can be advantageously used in connection with the present type of rails.

Further objects of my invention are to provide a rail joint that can be easily and quickly installed without the use of skilled labor, and to provide a rail joint that is simple in construction, durable, and highly efficient for the purposes for which it is intended.

25 I attain the above objects by a mechanical construction that will be hereinafter specifically described and then claimed, and reference will now be had to the drawing, wherein:

30 Figure 1 is a perspective view of the railway joint chair. Fig. 2 is an end view of the same. Fig. 3 is a cross sectional view of the same, and Fig. 4 is a perspective view of a portion of the detachable splice bar of the joint.

The reference numeral 1 denotes a tie plate rectangular in plan and provided with a plurality of transverse depending ribs 2, these ribs extending from one side of the tie plate to the opposite side, with a rib at each end thereof and another rib intermediate the end ribs. The plate 1 adjacent to the inner edge thereof is provided with a longitudinal integral lip 3 extending from one end of the plate 1 to the opposite end thereof, and this lip is adapted to overhang and engage the inner base flanges 4 of rails 5 mounted upon the tie plate. The outer edge of the plate 1 is provided with another longitudinal lip 6 of a greater height than the lip 3, the said lip 6 extending from one end of the plate to the opposite end and

providing sufficient clearance for mounting the rails 5 upon the tie plate.

Bracing the outer sides of the rails 5 is a detachable splice bar 7 adapted to rest upon the outer base flanges 8 of said rails with the outer edge 9 of said splice bar engaging under the lip 6. The outer edge of the splice bar at the ends thereof is provided with tongues 10 adapted to engage the ends of the lip 6 and prevent longitudinal displacement of the splice bars. Bolts 11 and nuts 12 can be used if it is desired, to further hold the splice bar 7 in engagement with the rails 5.

To assemble the parts of the rail joint it is necessary that the flanges 4 of the rails 5 be shifted into engagement with the lip 3, and then by placing the edge 9 of the splice bar 7 under the lip 6 the splice bar 7 can be swung downwardly under the heads of the rails 5.

The ribs 2 of the tie plate are adapted to frictionally hold said plate upon a tie or sleeper, and in addition to said ribs the ordinary spikes can be employed.

What I claim, is:

In a railway joint chair, the combination with the confronting ends of two rails, of a tie plate provided with a plurality of depending transversely arranged ribs, a lip carried by said tie plate adjacent to the inner edge thereof and adapted to receive the inner base flanges of said rails, a lip carried by the said tie plate adjacent to the outer edge thereof and of a greater height than the first mentioned lip, a splice bar adapted to brace the outer sides of said rails and have the outer edge thereof engage under the last mentioned lip, the said splice bar having the ends thereof provided with tongues adapted to engage the ends of the last mentioned lip to prevent longitudinal displacement of said splice bar, and bolts and nuts adapted to connect said splice bar to said rails, substantially as described.

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

WILLIAM H. ROUND.

Witnesses:

MAX H. SROLOVITZ,
CRISSY T. HOOD.