

No. 836,854.

PATENTED NOV. 27, 1906.

W. R. A. BALL.
TIE PLATE.

APPLICATION FILED SEPT. 10, 1906.

Fig. 2.

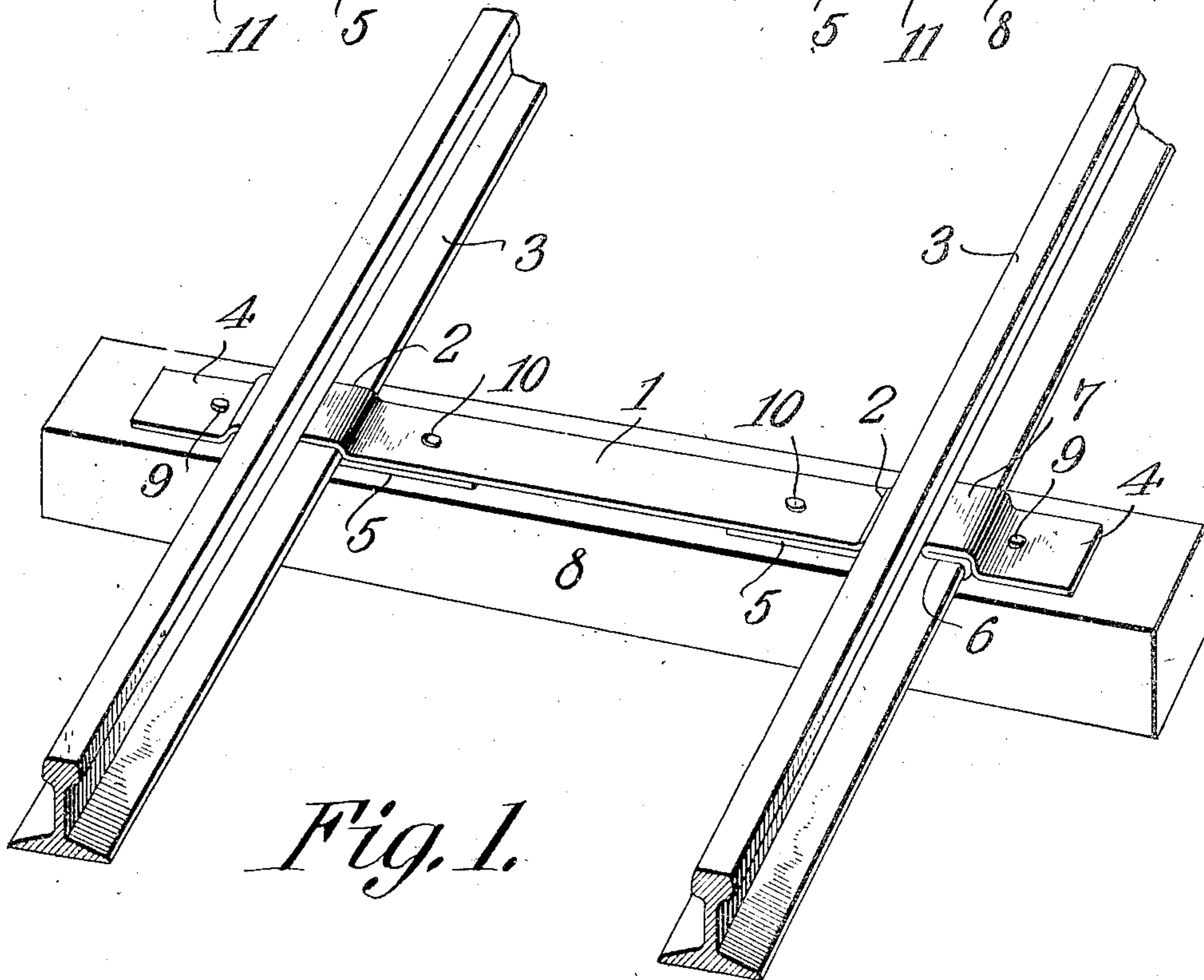
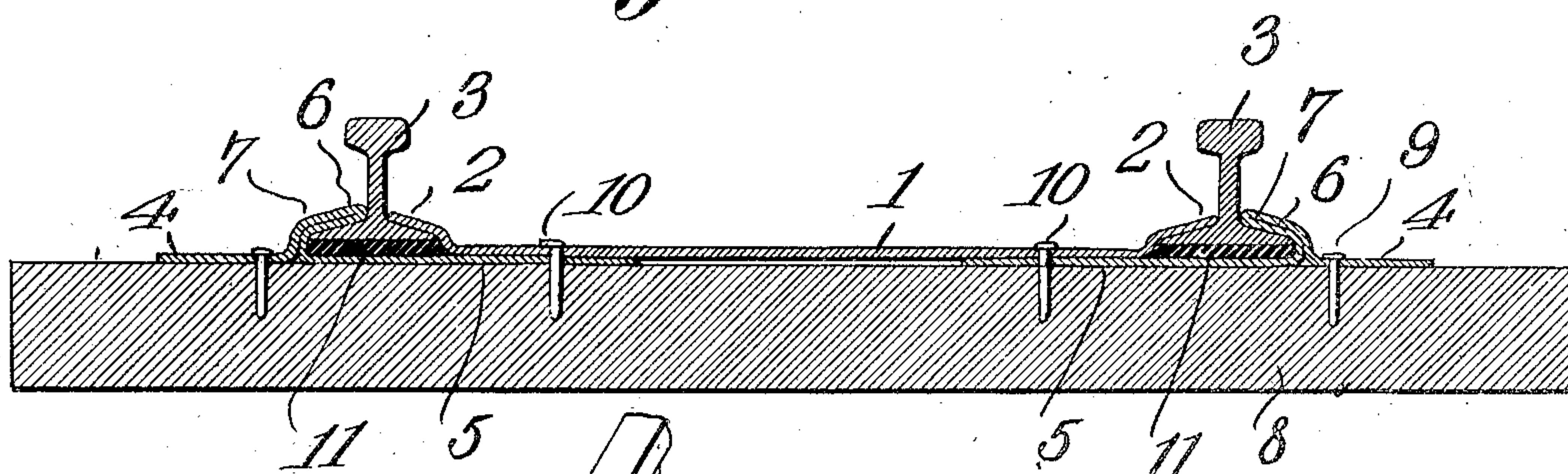


Fig. 1.

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WILLIAM ROBERT A. BALL, OF ST. THOMAS, NORTH DAKOTA.

TIE-PLATE.

No. 836,854.

Specification of Letters Patent.

Patented Nov. 27, 1906.

Application filed September 10, 1906. Serial No 333,991.

To all whom it may concern:

Be it known that I, WILLIAM ROBERT A. BALL, a citizen of the United States, residing at St. Thomas, in the county of Pembina and State of North Dakota, have invented a new and useful Tie-Plate, of which the following is a specification.

This invention has relation to tie-plates; and it consists in the novel construction and arrangement of its parts, as shown and described.

The object of the invention is to provide a plate adapted to be used in combination with the rail of a track for the purpose of maintaining the said rails at a proper distance with relation to each other and for securing the same against lateral spread.

In the drawings, Figure 1 is a perspective view of the tie-plate. Fig. 2 is a longitudinal sectional view of the same.

The plate comprises the intermediate portion 1, which is provided at its ends with the shoulders 2 2, which fit up over the flanges of the opposite rails 3 and terminate against the sides of the said rails. The end portions 4 are both alike and each consists of a strip of metal 5, which passes under the end of the intermediate portion 1 and also under the rail 3. The said strip is bent back, as at 6, over the outer flange of the rail 3. The said bent-back portion bears against the outer side of the said rail, as at 7, and lies flat against the top of the portion 6 and is secured to the tie 8 by means of the spike 9. The spikes 10 secure the inner ends of the strips 5 to the tie 8 and also secure the intermediate portion 1 to the said tie

From the foregoing description it is obvious that the intermediate portion 1, which bears at its ends against the inner sides of the track-rails 3 3, keeps said rails at proper distance apart; also the end portions 4, passing under the rails and being secured to the tie at the outer sides of the rails and having bent portions which overlie at the rail-flanges, prevent the said rails from spreading. The cushion 11, which may be of rubber or any other suitable material, is interposed between the bases of the rails 3 and the metallic strips 5 of the end portions 4. Thus the said rails receive the cushioning effect of the said cushion.

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

A tie-plate comprising end strips extending between the tie and the rails, cushions interposed between the strips and the bases of the rails, said strips being bent back over the outer flanges of the rails and abutting against the outer sides of the rails and being bent away from the rails and secured to the tie, an intermediate portion bearing at its ends against the inner sides of the rails and being secured to the tie and said end strips.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM ROBERT A. BALL

Witnesses:

A. L. MILLER,
H. L. KEELER.