

968,960.

Patented Aug. 30, 1910.

Fig. 1.

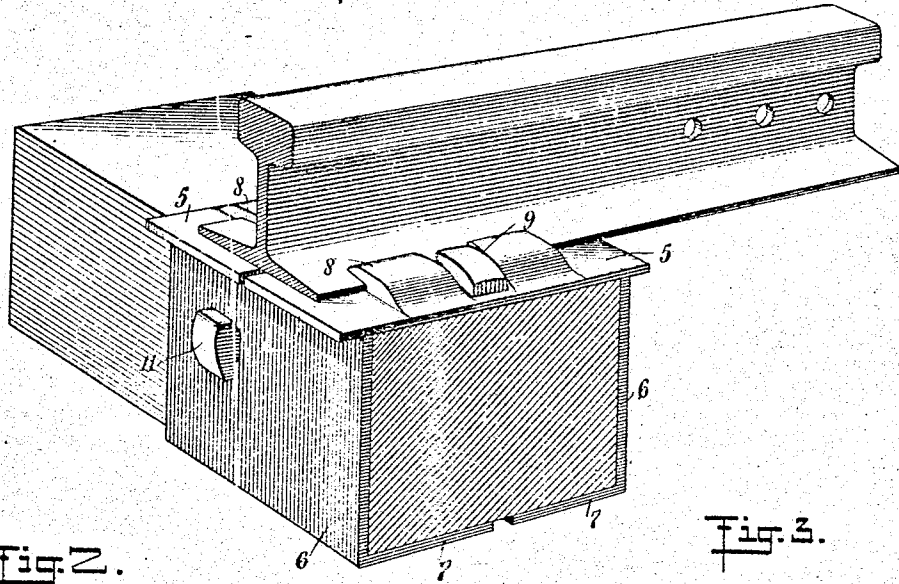


Fig. 2.

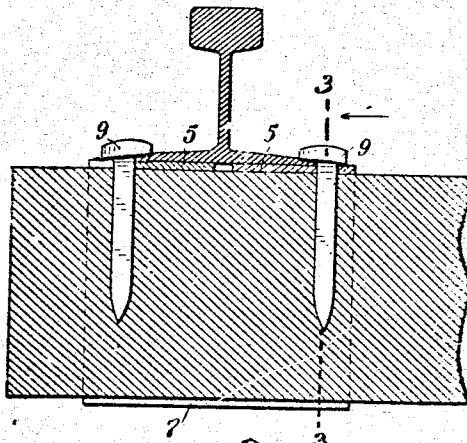


Fig. 3.

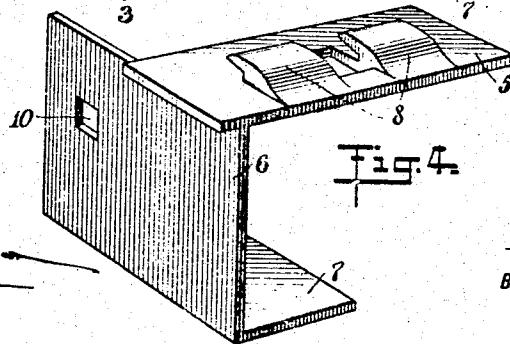
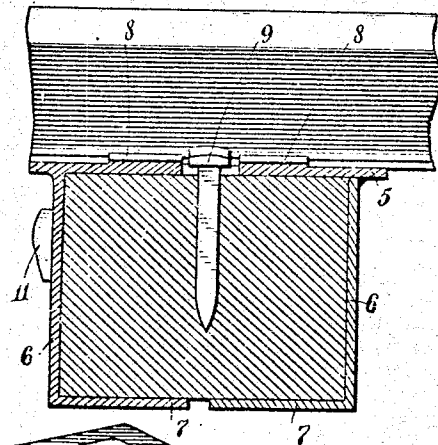


Fig. 4.

WITNESSES:

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UNITED STATES PATENT OFFICE.

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TIE-PLATE.

968,960

Specification of Letters Patent. **Patented Aug. 30, 1910.**

Application filed April 19, 1910. Serial No. 556,301.

To all whom it may concern:

Be it known that I, LOUIS LEBOVITZ, a citizen of the United States, and a resident of Sedalia, in the county of Pettis and State of Missouri, have invented a new and Improved Tie-Plate, of which the following is a full, clear, and exact description.

The invention relates to metallic tie plates, and has in view such an appliance as forms a seat for the rail and engages over the base flanges, the plate extending down at each side of the tie and to the under side thereof, and incasing the tie for a portion of its length under the rail, the plate being preferably constructed of two sections, the sections divided from each other longitudinally of the rail at the top and transversely of the rail at the bottom.

The invention further resides in the mode of spiking the plate to the tie.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view illustrating my improved tie plate applied to the tie and to the rail; Fig. 2 is a central vertical section of the same, taken transversely of the rail; Fig. 3 is a vertical section longitudinally of the rail on substantially the line 3-3 of Fig. 2; and Fig. 4 is a perspective view of one of the tie-plate sections removed from the tie.

The tie plate is constructed to conform to the tie, and incase the tie for a portion of its length under the rail, the plate being divided into two sections, each section, as shown in Fig. 4, comprising a top plate 5, a side plate 6 and a bottom plate 7, the top plate 5 being one-half the width of the side plate and bottom plate and arranged to extend longitudinally of the rail and form a seat for one side thereof, and is provided with a number of jaws 8, preferably two, arranged to engage over the top of one of the base flanges of the rail, the plate between the jaws having a spike opening to permit of a spike 9 being driven into the tie. The side plate 6 of each tie plate section has a spike opening 10 about midway its height or near the top and arranged at the opposite side from the attached top plate 5, through which a spike 11 is driven into the tie. The top plate 5 of each tie plate section preferably extends at one end slightly beyond its

attached side plate 6, to afford a substantial seat for the rail, and at its free and opposite end seats on the upper edge of the side plate 6 of the other tie plate section, and extends a slight distance therebeyond when the tie or sill is of the conventional width; this, however, not being essential to the construction. After the tie plate is placed in position on the tie, under the rail, with the jaws 8 firmly pressed up against the base flanges of the rail, the spikes 9 are driven to place, these spikes not only holding the tie plate sections against both relative longitudinal and transverse movement, but also binding the rail to the top plates 5. The spikes 11, which are driven in the final anchoring of the plate, further secure the plate sections to the tie, and prevent them from shifting under the rail, the particular location of the opening 10 relatively to the slot or opening for the spike 9, being such as to obviously prevent the tie plate sections from cocking on the tie. By dividing the tie plate longitudinally of the rail at the top and transversely of the rail at the bottom in forming the two tie plate sections, each section is given a substantial bearing surface against the tie extending in opposite directions, whereby it cannot tilt substantially, either longitudinally or laterally.

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

1. A tie plate composed of two separable sections, each section comprising a top plate, a side plate and a bottom plate for the tie, with the top plate constructed to extend across the tie longitudinally of the rail and form a seat therefor, and having a jaw arranged to engage over the base flange of the rail.

2. A tie plate adapted to incase the tie for a portion of its length under the rail, and divided at the top longitudinally of the rail and at the bottom transversely of the rail into two separable sections, and a jaw formed in connection with the top of each section and arranged to engage over the base flange of the rail.

3. A tie plate comprising top plates and side plates, each of said top plates being rigid with one of the side plates and arranged to seat on the upper edge of the other side plate, and having jaws arranged to engage over the top of the base flange of the rail.

4. A tie plate composed of two separable sections, each section comprising a top plate, a side plate and a bottom plate for the tie, with the top plate of each section divided 15
5 from the top plate of the other section longitudinally of the rail, and the bottom plate of each section divided from the bottom plate of the other section transversely of the rail.
- 10 5. A tie plate adapted to incase the tie for a portion of its length and form a seat for the rail, the plate being divided into two separable sections, each section comprising

a top plate, side plate and bottom plate for the tie, with the top plate provided with a 15
jaw arranged to engage over the base flange of the rail and adapted to seat on the upper edge of the side plate of the opposite section of the tie plate.

In testimony whereof I have signed my 20
name to this specification in the presence of two subscribing witnesses.

LOUIS LEBOVITZ.

Witnesses:

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S. J. NICHOLS.