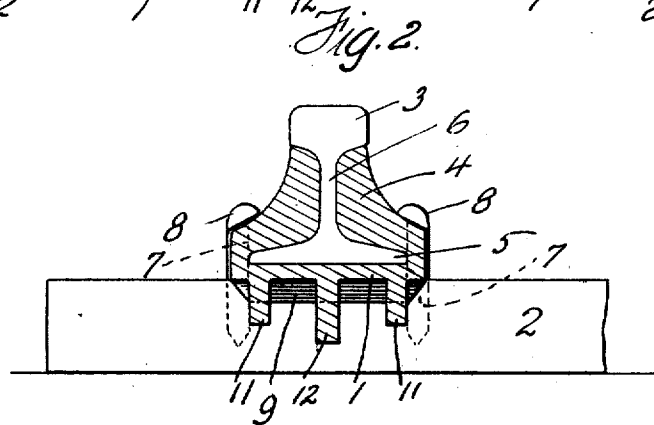
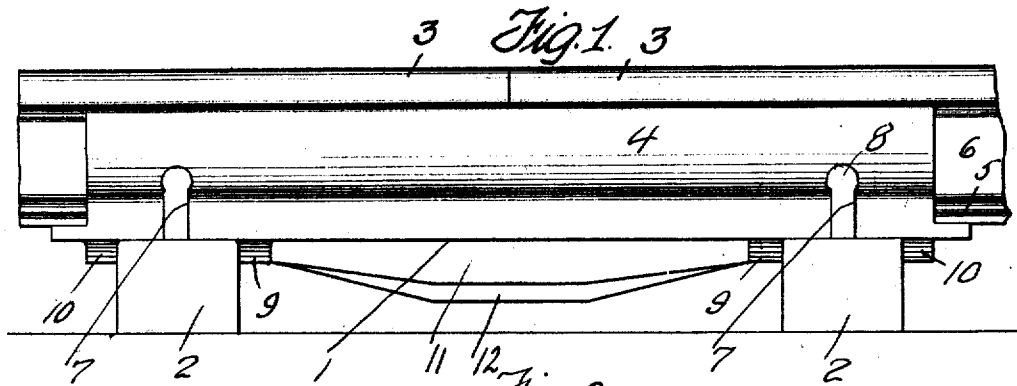


J. & F. MINIH.
RAIL JOINT.
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933,482.

Patented Sept. 7, 1909.



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UNITED STATES PATENT OFFICE.

JOSEF MINIH AND FRANCK MINIH, OF PITTSBURG, PENNSYLVANIA.

RAIL-JOINT.

933,482.

Specification of Letters Patent.

Patented Sept. 7, 1909.

Application filed May 14, 1908. Serial No. 496,003.

To all whom it may concern:

Be it known that we, JOSEF MINIH and FRANCK MINIH, subjects of the King of Hungary, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Rail-Joints, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to rail joints and the objects of our invention are to provide a strong and durable rail chair for supporting the confronting ends of two rails; to furnish simple and effective means for preventing lateral and vertical displacement of the confronting ends of two rails, and to provide a rail chair with longitudinal and transverse strength reinforcing ribs that will provide a strong and durable bridge between 20 two ties for the ends of rails. These and such other objects as may hereinafter appear are attained by the convenient embodiment of our invention shown in the accompanying drawings, in which,

25 Figure 1 is an elevation of a rail joint constructed in accordance with our invention, Fig. 2 is a cross sectional view of the same, and Fig. 3 is a bottom plan of the rail chair.

In the drawings, 1 denotes an oblong plate adapted to bridge two ties 2 and support the confronting ends of rails 3, the ends of said rails meeting intermediate the ties 2 and centrally of the plate 1.

4 denotes splice bars formed integral with the longitudinal edges of the plate 1 and extending over the base flanges 5 of the rails and bracing the web portions 6 thereof, said splice bars also supporting the heads of the rails. The splice bars 4 are approximately 40 the same length as the plate 1 and the longitudinal edges of said splice bars, adjacent to the ends thereof, are provided with vertical grooves 7 for spikes 8 employed for securing the plate 1 and the splice bars to 45 the ties 2.

9 and 10 designate transverse strengthening or reinforcing ribs carried by the bottom of the plate 1 contiguous to each end thereof, and 11 and 12 denote longitudinal strengthening or reinforcing ribs arranged 50 between the ribs 9, the rib 12 being located between the ribs 11 and of a greater depth than the ribs 11.

It is apparent from the foregoing description that we have devised a novel rail chair 55 having bottom braces or trusses adapted

to compensate for the stresses and strains exerted upon the chair by the rolling stock and active loads passing over the rails 3.

While in the drawings there is illustrated 60 the preferred embodiment of our invention, it is to be understood that the structural elements thereof can be varied or changed without departing from the spirit of the invention.

65 Having now described our invention what we claim as new, is:—

1. A rail joint chair comprising an oblong plate adapted to support the confronting ends of two adjacent rails and of a 70 length as to extend beyond a pair of ties, splice bars formed integral with the longitudinal edges of said plate and adapted to brace the base flanges and web portions of said rails, said splice bars adjacent to the 75 ends thereof having vertical spike grooves formed therein, a pair of transversely-extending reinforcing ribs depending from the lower face of said plate at each end thereof, the ribs of each pair of ribs spaced from 80 each other whereby when said plate is mounted upon the ties, the ribs of each pair will be arranged in close proximity to the sides of the ties thereby preventing longitudinal shifting of said plates, and a plural- 85 ity of longitudinally-extending reinforcing ribs depending from the bottom of said plate and formed integral at their ends with the inner transverse ribs of the pairs of ribs, said longitudinally-extending ribs gradually in- 90 creasing in height from the ends toward the center, the intermediate rib of said longitudinally-extending ribs at its center being of greater height than the outer ribs of said longitudinally-extending ribs and the outer 95 rib of each pair of transversely-extending ribs being positioned at a point removed from the terminus of the plate.

2. A rail joint chair comprising an oblong plate adapted to support the confront- 100 ing ends of two adjacent rails and of a length as to extend beyond a pair of ties, splice bars formed integral with the longitudinal edges of said plate and adapted to brace the base flanges and web portions of said rails, a pair of transversely-extending reinforcing ribs depending from the lower 105 face of said plate at each end thereof, the ribs of each pair of ribs spaced from each other whereby when said plate is mounted 110 upon the ties, the ribs of each pair will be arranged in close proximity to the sides of

the ties thereby preventing longitudinal shifting of said plates, and a plurality of longitudinally-extending reinforcing ribs depending from the bottom of said plate and
5 formed integral at their ends with the inner transverse ribs of the pairs of ribs, said longitudinally-extending ribs gradually increasing in height from the ends toward the center, the intermediate rib of said longitudinally-extending ribs at its center being
10 of greater height than the outer ribs of said

longitudinally-extending ribs and the outer rib of each pair of transversely-extending ribs being positioned at a point removed from the terminus of the plate.

In testimony whereof we affix our signatures in the presence of two witnesses.

JOSEF MINIH.
FRANCK MINIH.

Witnesses:

A. H. RABEAIG,
A. J. TRIGG.