N. BROZORICH.

RAIL JOINT.

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1,157,205.

Patented Oct. 19, 1915.

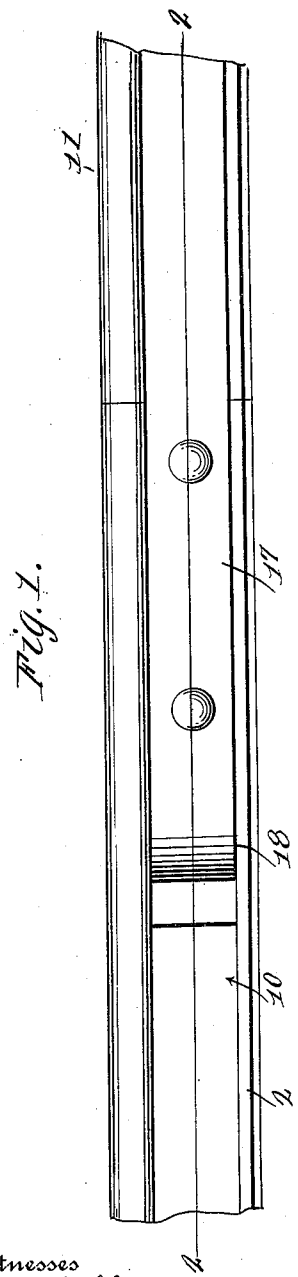


Fig. 1.

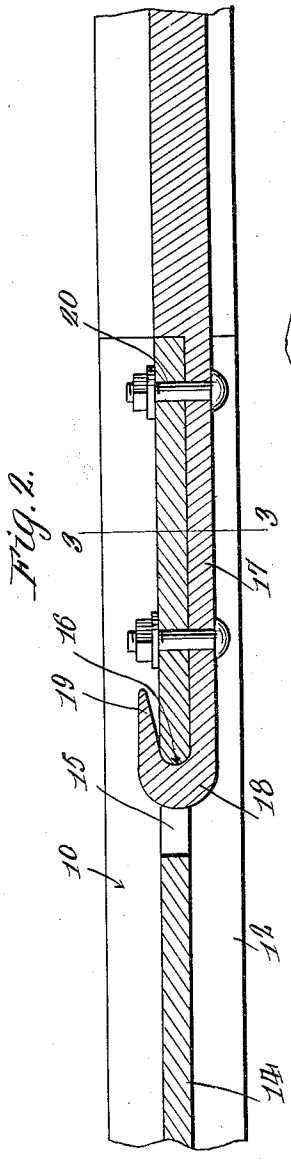


Fig. 2.

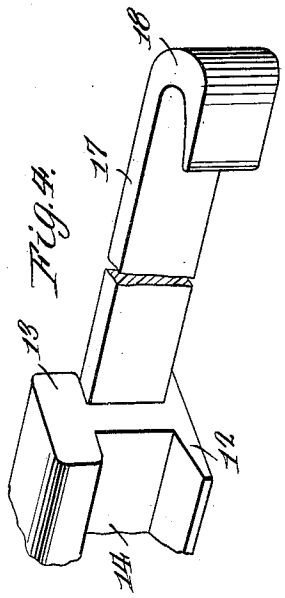


Fig. 4.

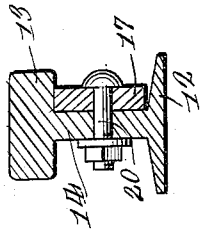


Fig. 3.

Witnesses

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RAIL-JOINT.

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To all whom it may concern:

Be it known that I, NICHOLAS BROZORICH, a citizen of the United States, residing at Albia, in the county of Monroe and State of Iowa, have invented certain new and useful Improvements in Rail-Joints, of which the following is a specification.

This invention relates to rail joints, and has for its object the production of an improved form of coupling at the abutting ends of the rails that forms such a rigid connection as to obviate the use of the ordinary fish plates commonly used in making rail connections.

Another object of this invention is the production of a rail joint in which one of the abutting rails is provided with an extension from the web terminating in a hook that is adapted to be positioned in an opening formed in the other of said rails.

A still further object of this invention is the production of a rail joint that is very simple in construction, efficient in operation, consisting only of the minimum number of parts, and therefore can be manufactured and placed upon the market for the minimum cost.

With these and other objects in view, this invention consists of certain novel constructions, combinations and arrangement of parts as will be hereinafter fully described and claimed.

In the accompanying drawing: Figure 1 is a side elevation of the abutting ends of adjoining rails constructed in accordance with my invention. Fig. 2 is a section taken on line 2—2 of Fig. 1. Fig. 3 is a section taken on line 3—3 of Fig. 2. Fig. 4 is a detailed perspective view of one end of a rail with the hook member formed thereon.

Referring to the parts by reference numerals, the abutting ends of adjoining rails are designated by the numerals 10 and 11, the rails being of the conventional form comprises a base 12, head 13 and web 14. Adjacent one end of a rail 10 formed in accordance with my invention, and more specifically shown in the drawing, is an opening 15 formed in the web of the rail and having one of its faces rounded as indicated at 16.

Adjacent the opposite end of the rail from that of the formation of the opening 15, and shown in the drawing on the end of the rail designated 11, the web of that portion of the rail being slightly enlarged as is clearly shown in Figs. 2 and 4, is a projecting strip 17 having its end bent at right angles to the main portion thereof, and then bent in a direction longitudinal of the body portion and toward the point of connection of said projection with the rail 11, and thus forming a hook designated by the numeral 18. The inner face of that portion of the hook 18 that is in longitudinal alinement with the body portion of the strip 17 is provided with a beveled face 19, so that when the rails are being positioned as shown in Figs. 1 and 2, the beveled face 19 of the hook 18 will engage the rounded face of the opening 15, and thus guide the device to a positive locking position. Openings are formed in the projection 17 and the web of the rail designated by the numeral 14, and when the hook is positioned in the opening 15, the rails become alined and a securing means 20 is passed therethrough to further facilitate the securing of the abutting ends of the rails.

As will be seen from the foregoing description taken in connection with the accompanying drawings, an improved coupling has been formed at the abutting ends of rails that will securely hold the same from separation and at the same time necessitate only the minimum amount of changing from the ordinary type of rail now in use. Furthermore, this improved form of coupling in no way weakens the rails at their abutting ends, inasmuch as the part of the joint that carries the extension that terminates in the hook has the web enlarged sufficiently so as to allow for the projecting portion and still provide a positive shoulder that will abut the end of the opposite or abutting rail.

It is obvious that minor changes may be made in the form and construction of this invention without departing from the material parts thereof. It is therefore not wished to confine the invention to the exact form herein shown and described, but it is wished to include all such as properly comes within the scope claimed.

What is claimed is:

In a rail joint, a pair of rails, one of the same having an aperture formed therein adjacent its abutting end with one of the

walls at said aperture being rounded, the other of said rails having a hook projecting from its abutting end having an inclined face adapted to ride the rounded face of said aperture whereby the positioning of said hook in said opening is facilitated to secure the abutting ends of said rails together.

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

NICHOLAS BROZORICH.

Witnesses:
GEO. VIDAS,
J. C. MABRY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."