

J. E. McCOY.
RAIL JOINT.
APPLICATION FILED NOV. 16, 1912.

1,074,554.

Patented Sept. 30, 1913.

Fig. 1.

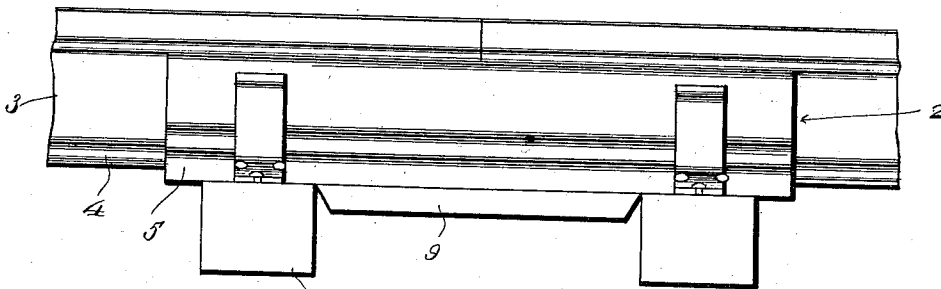


Fig. 3.

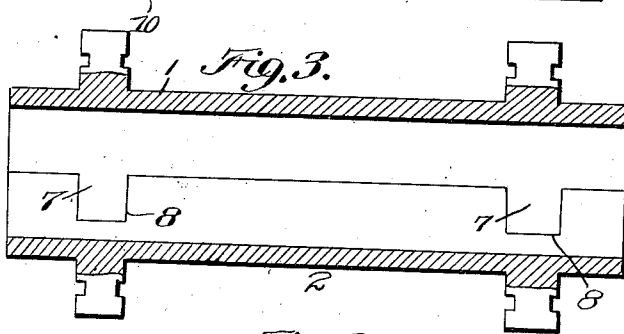
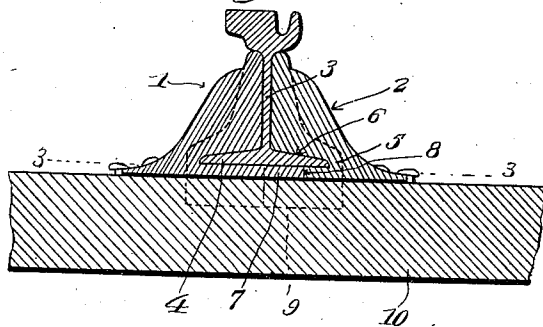


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

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RAIL-JOINT.

1,074,554.

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To all whom it may concern:

Be it known that I, JOHN E. McCOY, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented new and useful Improvements in Rail-Joints, of which the following is a specification.

This invention relates generally to an improved rail joint and particularly to a means designed in use to brace and support the meeting ends of rails in a manner to prevent their longitudinal and vertical displacement.

The main object of the present invention is the provision of a rail joint including members shaped to conform to the rail end and constructed to interlock when in applied position to prevent their independent longitudinal movement.

The invention in its preferred form of details will be described in the following specification, reference being had to the accompanying drawings, in which:—

Figure 1 is a view in side elevation illustrating the improved joint connection. Fig. 2 is a transverse section of the same. Fig. 3 is a section on the line 3—3 of Fig. 2.

Referring particularly to the accompanying drawings, the improved rail joint is shown in use with what is known as a street railway type of rail, though it is obvious that it is equally effective with any type of rail.

The joint is made up of two members 1 and 2 designed to together form a chair and splice for the rail. The inner or proximate faces of the members are shaped to conform to the web 3 and base flange 4 of the rail, each member being laterally enlarged adjacent its lower end, as at 5, and formed in such enlargement with an inwardly extending recess 6 to receive that portion of the base flange at one side of the web of the rail. One of the members as 1, is provided in that portion underlying the base flange of the rail with laterally extending tongues 7, preferably arranged adjacent the ends of the member to seat within correspondingly formed recesses 8 in the opposing chair member 2, so that when the members are assembled in cooperation with the rail ends said chair members are secured together to prevent their independent longitudinal movement. The respective chair members are formed on their under surfaces with depending enlargements 9 which when the members are

in joint supporting position are arranged between the usual ties 10 and serve as truss members.

Each chair member adjacent the ends thereof is integrally formed with brace webs 60 designed to overlie and rest upon the ties supporting the chair. The brace webs are preferably positioned in alinement with the interlocking tongues and recesses transversely of the members, and each brace web is formed with appropriately arranged notches, preferably at the sides and ends of said members to permit the application of the usual spikes to be driven into the ties. In connection with the improvement described it will be noted that the spikes tend to hold the brace webs and through the latter the chair members into close contact with the rail, and that in such position the respective chair members are locked against independent movement, and thereby an effective rail end chair and splice is provided.

In connection with the improved construction it is particularly noted that no bolts are required in securing the parts together.

What is claimed is:—

A rail chair including members formed to together embrace the rail web and base flange thereof, said members being formed with laterally extending recesses to receive the base flange of the rail, one of said members below said recess provided with laterally projected tongues and the opposing member with corresponding recesses to receive said tongues, the length of said tongues and recesses transverse the rail being less than the length of the flange protection on one side of the web whereby to arrange the interlocking portion wholly beneath the base flange, each of the members being formed intermediate its length with a depending enlargement adapted to contact when the members are in chair forming relation to provide reinforcements intermediate the adjacent ties, and brace webs formed on the members in alinement with the interlocking tongues and recesses to overlie and rest upon the ties, said brace webs being provided with spike-receiving openings.

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

JOHN E. McCOY.

Witnesses:

ETTA B. GREEN,
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