

C. M. BENNETT.

RAIL JOINT.

APPLICATION FILED OCT. 19, 1904.

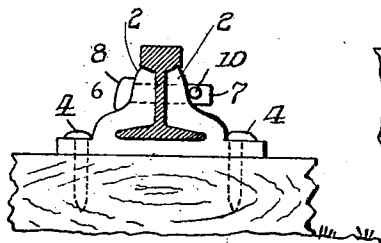


Fig. 1.

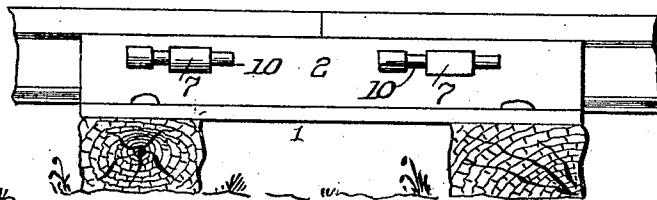


Fig. 2.

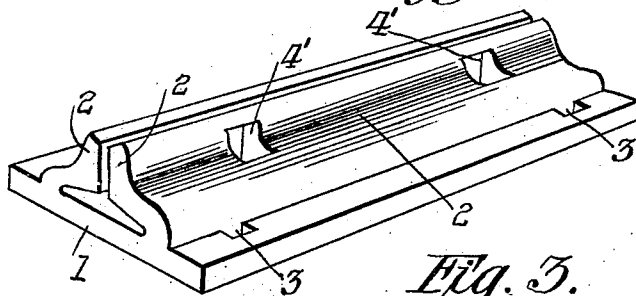


Fig. 3.

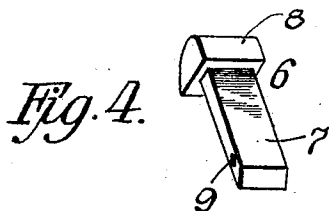


Fig. 4.



Fig. 5.

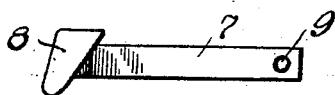


Fig. 6.

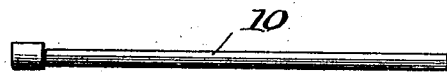


Fig. 7.

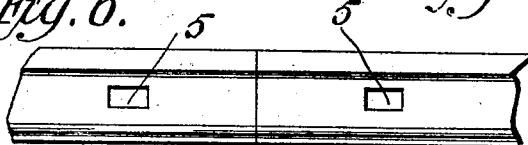


Fig. 8.

Witnesses:
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UNITED STATES PATENT OFFICE.

CHARLES M. BENNETT, OF WELLSVILLE, OHIO.

RAIL-JOINT.

No. 795,477.

Specification of Letters Patent.

Patented July 25, 1905.

Application filed October 19, 1904. Serial No. 229,122.

To all whom it may concern:

Be it known that I, CHARLES M. BENNETT, a citizen of the United States of America, residing at Wellsville, in the county of Columbiana and State of Ohio, have invented certain new and useful Improvements in Rail-Joints, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in rail-joints, and has for its object the provision of novel means for securing the confronting ends of two sections of rail together in such a manner that they cannot become disjoined or displaced from the ties which support the same until the securing means of the joint is released.

Another object of the invention is to provide a rail-joint wherein nuts and bolts are entirely dispensed with and means provided for supporting the rail-sections upon ties, and in constructing my improved rail-joint I have embodied such features of construction that a strong and durable joint is provided which will firmly secure the confronting ends of the rail-sections together and brace the same.

With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts, which will be hereinafter more fully described and then specifically pointed out in the claim, and referring to the drawings accompanying this application like numerals of reference designate corresponding parts throughout the several views, in which—

Figure 1 is an end view of my improved rail-joint. Fig. 2 is a side elevation of the same. Fig. 3 is a perspective view of a chair used in connection with my improved rail-joint. Fig. 4 is a detail perspective view of one of the keys employed in connection with my improved rail-joint. Fig. 5 is a detail view of one of the locking-pins employed in connection with the key. Fig. 6 is a detail side elevational view of the key. Fig. 7 is a detail view of a form of pin that may be employed in place of the pin illustrated in Fig. 5, and Fig. 8 is a detail side elevational view of the confronting ends of two rail-sections.

To put my invention into practice, I employ a chair such as illustrated in Fig. 3 of the drawings. This chair consists of a base portion 1, having the integral upwardly-extend-

ing fish-plates 2 2, which are adapted to embrace the web portions of the confronting rail-sections and support the same. The base of the chair extends beyond the fish-plates and adjacent the latter is provided with a plurality of openings 3 3, through which spikes 4 4 are adapted to pass when the chair is to be secured upon a tie. The sides of the fish-plates 2 2 are provided with the horizontally-alined openings 4' 4'. The rail-sections which are to be supported within the chair have openings 5 5 formed in their web portions, these openings corresponding in size to the openings 4' 4' of the chair, and when the ends of the rail-sections have been placed within the chair the keys 6 are inserted in the openings 4' and 5. These keys consist of a shank portion 7, having an integral head 8, and the one end of the key is provided with an opening 9, through which the headed locking-pin 10 is adapted to pass.

By referring to Figs. 1 and 2 of the drawings the keys and locking-pins are shown in their positions when two rail-sections are secured within the chair, and it will be seen by this construction that the rail-sections will be firmly braced and supported within the chairs and will be prevented from becoming disjoined owing to the keys passing through the web portion of each section and preventing any perceptible longitudinal movement of the rail-sections. I desire to form the openings within the rail-sections slightly larger than the openings 4', whereby a slight movement will be permitted of the rail-sections to permit of the expansion and contraction of the rails.

In Fig. 7 of the drawings I have illustrated a locking-pin of a greater length than the locking-pin illustrated in Fig. 5, and this locking-pin is used when it is desired to dispense with the two small locking-pins illustrated in Fig. 2. The locking-pin, as illustrated in Fig. 7, is adapted to secure the keys within the chair, and either form of these keys may be used.

It will be noted that various changes may be made in the details of construction without departing from the general spirit and scope of the invention.

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

In a rail-joint, the combination with adjacent rail-sections, of a chair, comprising two

fish-plates adapted to embrace the web and base of the rail, and a base adapted to be spiked to the ties, a plurality of keys passing through registering openings in the fish-plates and in the rail-sections, said keys having openings in their ends, and a pin passing through the openings in a plurality of such keys.

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

CHARLES M. ^{his} X BENNETT.
mark

Witnesses:

ESTRA WINGET,
BRADY SCARBERRY.