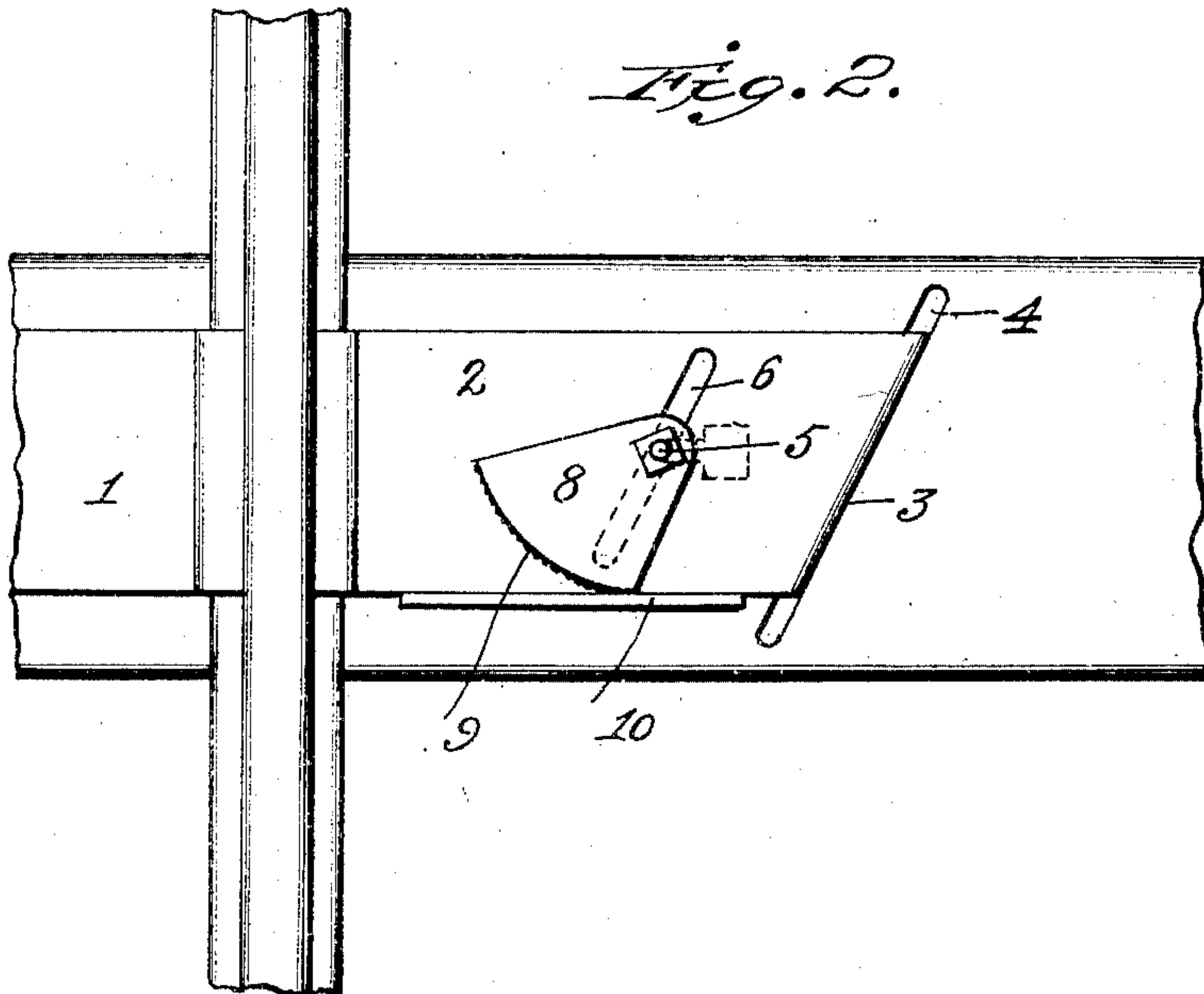
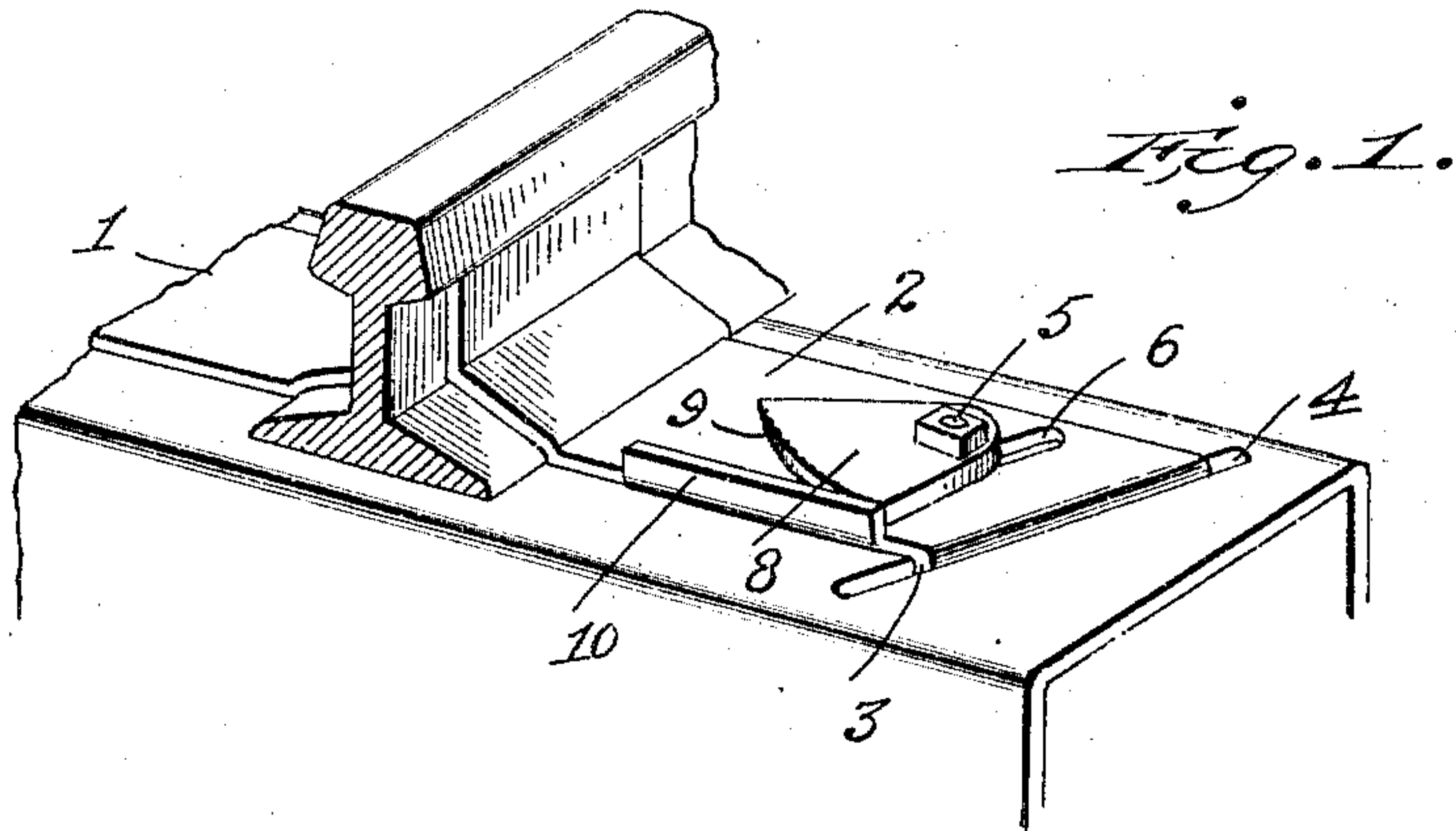


No. 894,405.

PATENTED JULY 28, 1908.

J. G. SNYDER.  
METALLIC RAILWAY TIE.  
APPLICATION FILED SEPT. 3, 1907.



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# UNITED STATES PATENT OFFICE.

JOHN G. SNYDER, OF ALTOONA, PENNSYLVANIA.

METALLIC RAILWAY-TIE.

No. 894,405.

Specification of Letters Patent.

Patented July 28, 1908.

Application filed September 3, 1907. Serial No. 391,103.

*To all whom it may concern:*

Be it known that I, JOHN G. SNYDER, a citizen of the United States, residing at Altoona, in the county of Blair and State of Pennsylvania, have invented certain new and useful Improvements in Metallic Railway-Ties, of which the following is a specification.

The invention relates to metallic railway-ties of that description which are made of sheet metal, and more particularly to the clamping mechanism for securing the rail to the tie.

It has for its object the provision of means whereby the clamp can be readily adjusted to meet the rail after the latter has been positioned and which will securely hold it in place.

The invention consists in the novel construction, combination and arrangement of parts, such as will be hereinafter fully described, pointed out in the appended claims and illustrated in the accompanying drawings.

In the drawings, in which similar reference characters designate corresponding parts, Figure 1 is a perspective view of clamping mechanism embodying the invention. Fig. 2 is a plan view of the same.

The tie is of sheet metal and in its formation may be of any suitable construction. The rail is secured on the crown of the tie by the clamps 1 and 2 placed on opposite sides of the rail and secured to the tie. The inner ends of the clamps fit over the base of the rail and the web and abut against the under side of the crown of the same.

The outer end of the clamp 2 is flat and rests on the crown of the tie. On the outer end of the clamp is the flange 3 extending diagonally across the clamp. This flange registers with the slot 4 extending diagonally across the crown of the tie. As the slot is somewhat longer than the flange the clamp can be moved transversely of the tie. Ow-  
ing to the slant of the slot and flange, by moving the clamp sidewise a longitudinal adjustment of the same can be secured on the tie relative to the rail. After the clamp has been adjusted to engage the rail the flange 3 engaging the slot 4 will hold the clamp against the thrust of the rail.

The clamp is held in place on the tie by the

bolt 5 passing through the crown of the tie and the slot 6 in the clamp. The slot 6 is parallel with the flange 3 and the slot 4 so that the clamp can be moved sidewise on the bolt in its adjustments. Pivoted on the bolt 5 above the clamp is the dog 8 with the serrated cam-face 9 engaging the rib 10 projecting upwardly from the shorter side of the clamp. In assembling the parts, after the clamp has been adjusted the dog 8 is turned so that the cam-face 9 is forced against the rib 10. By pressing against the rib the dog holds the clamp against movement sidewise and, consequently, against movement away from the rail. The thrust of the rail on the clamp causes the dog to more firmly wedge its cam-face against the rib. The serrations of the cam-face bite into the rib and thereby hold the dog against accidental displacement.

Having thus described my invention what I claim and desire to secure by Letters Patent is:

1. In a rail-fastener, a tie provided with a diagonal slot, a rail-clamp adjustable on the tie, a flange on said clamp registering with said slot, and a dog pivoted to said tie and bearing against said clamp to hold the latter against movement.

2. In a rail-fastener, a tie provided with a slot extending diagonally across its crown, a rail-clamp adjustable on said tie provided with a diagonal slot parallel with said slot in the tie, a bolt mounted in said tie engaging said slot in the rail-clamp, a diagonal flange on said rail-clamp registering with said slot in the tie, and a dog pivoted on said bolt and engaging said rail-clamp to hold the latter against movement.

3. In a rail-fastener, a tie provided with a slot extending diagonally across its crown, a rail-clamp adjustable on the crown of said tie, a diagonal flange on said rail-clamp registering with said slot in the tie, a rib on said rail-clamp, and a dog pivoted to said tie and engaging said rib to hold the clamp in place.

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

JOHN G. SNYDER.

Witnesses:

STEPHEN H. REID,

J. C. L. O'REILLY.