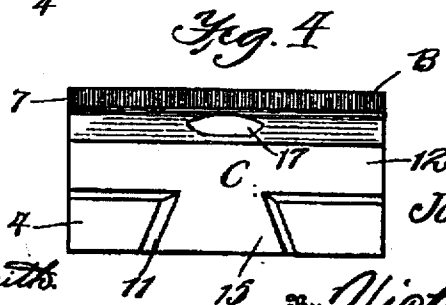
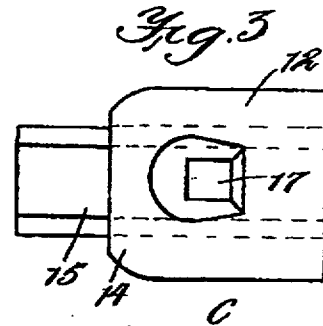
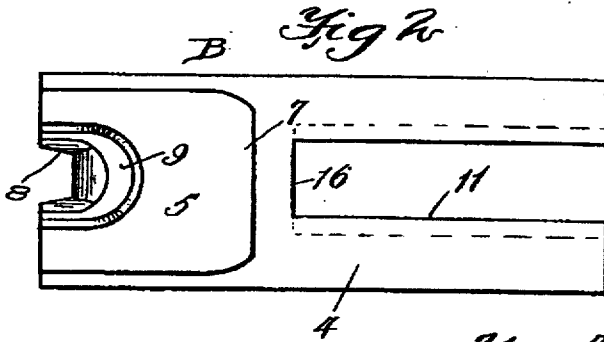
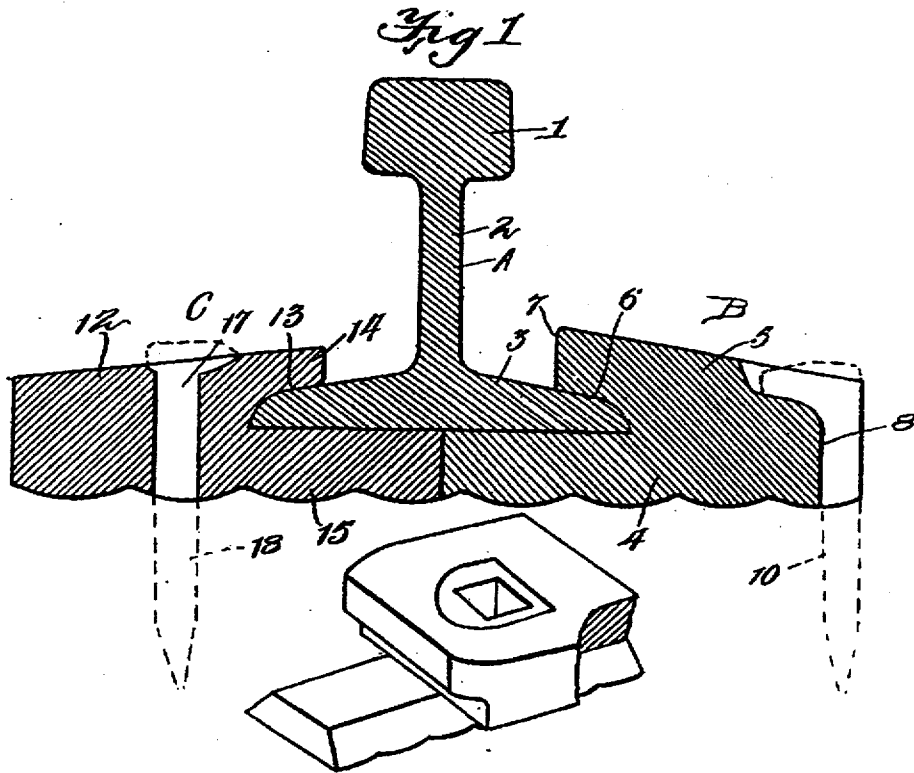


J. H. KING.
TIE PLATE.
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928,869.

Patented July 20, 1909.



Witnesses

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JOHN H. KING, OF ATLANTA, GEORGIA.

TIE-PLATE.

No. 928,869.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed December 9, 1908. Serial No. 466,681.

To all whom it may concern:

Be it known that I, JOHN H. KING, a citizen of the United States, residing at Atlanta, in the county of Fulton and State of Georgia, have invented new and useful Improvements in Tie-Plates, of which the following is a specification.

This invention relates to a device for securely fastening the rails of a track to the ties, and relates more particularly to a device of that character consisting of a tie plate having means for engaging the base of the rail at one side, in combination with adjustable means for engaging the base of the rail at the opposite side.

The invention has for one of its objects to improve and simplify the construction of devices of this character so as to be comparatively simple and inexpensive to manufacture, reliable and efficient in use, and so designed as to be readily applied in position.

Another object of the invention is the provision of a combined tie plate and brace consisting of two sections adjustably connected to adapt itself to rails of different sizes, there being a dove-tail tongue and groove connection between the sections which permits of the device being enlarged or contracted to suit the rail, and which also permits of the device being readily applied or detached.

With these objects in view and others, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claims appended hereto.

In the accompanying drawing, which illustrates one embodiment of the invention, Figure 1 is a transverse section of a rail and the securing device applied thereto. Fig. 2 is a plan view of the body section of the device. Fig. 3 is a plan view of the clamping section thereof. Fig. 4 is an end view showing the parts connected. Fig. 5 is a perspective view of the clamping section of the device.

Similar reference characters are employed to designate corresponding parts throughout the views.

Referring to the drawing, A designates a rail of standard construction consisting of a head 1, web 2, and base 3, the latter being engaged by the two sections B and C of the

rail-securing device that are spiked in place on a cross tie.

The body section B comprises a rectangular plate 4 which is adapted to extend under the base of the rail. On one end of the plate is formed an enlargement or head 5 which has an undercut shoulder 6 at its inner portion to form a member 7 for engaging over the base of the rail at one side. The outer face of this enlarged portion is formed with a vertical recess or notch 8 which has a countersunk portion 9 for receiving the head of a securing spike 10 shown by dotted lines, Fig. 1, the shank of the spike being engaged in the recess 8. The plate 4 is provided with a longitudinally-extending slot 11 that extends inwardly from the end opposite to that having the enlargement or head 5 to a point short of the base-engaging member 7 and the opposed walls of this recess are undercut so that the slot will be of dove-tail cross section.

The clamping section C comprises a plate portion 12 which has its inner face undercut to form a recess 13 and a base-engaging member 14, so that the edge of the base of the rail will be received in the said recess. Formed on the bottom of this plate 12 is a longitudinally-extending tongue or rib which is of dove-tail cross section to fit in the groove or slot 11 of the body section B, and the said tongue projects beyond the inner edge of the plate 12 so that when it strikes the inner wall 16 of the slot 11, the opposite sides of the rail base will be tightly gripped. The clamping member C is provided with a vertical opening 17 that extends through the plate portion 12 and through the tongue 15 for receiving the fastening spike 18, the top surface of the plate 12 being countersunk to receive the head of the spike. The under surfaces of the parts B and C are ribbed or grooved so as to increase the grip of the securing device on the tie to thereby materially assist in preventing lateral movement of the rails.

From the foregoing description, taken in connection with the accompanying drawing, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the invention, together with the device which I now consider to be the best embodiment

thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the claims appended hereto.

Having thus described the invention, what I claim is:—

1. The combination of a rail including a base, with a fastening device for securing the rail to a tie, said device consisting of a body section constructed with a flat plate adapted to extend under the rail and provided with an enlargement at one end, said enlargement having an undercut shoulder to provide a base-engaging member, the plate having a slot extending longitudinally thereof from the end opposite the enlargement and extending inwardly from a point adjacent the enlargement and being of dove-tail cross section; with a clamping section having a plate recessed at its inner end to form a base-engaging member provided with a tongue of dove-tail cross section and of such size as to slide in the slot of the body section, the body and clamping sections having respectively a

recess and an opening for receiving spikes to secure the device to a tie.

2. A device of the class described comprising a body section composed of a plate having a longitudinal slot of dove-tail cross section and provided with an enlargement on the unslotted portion, the end face of the enlargement being recessed to receive a spike and the opposite face of the enlargement being undercut to form a base-engaging member, and a clamping section comprising a plate having its inner face undercut to form a base-engaging member and provided with a tongue of dove-tail cross section to fit in the slot of the body section, said tongue extending from one end of the plate to the other and projecting beyond one of such ends, there being a spike-receiving opening in the plate and tongue.

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

JOHN H. KING.

Witnesses:

S. L. DALLAS,
W. A. PEEBLES.