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2,127,403

TIE PLATE

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Fig. 1.

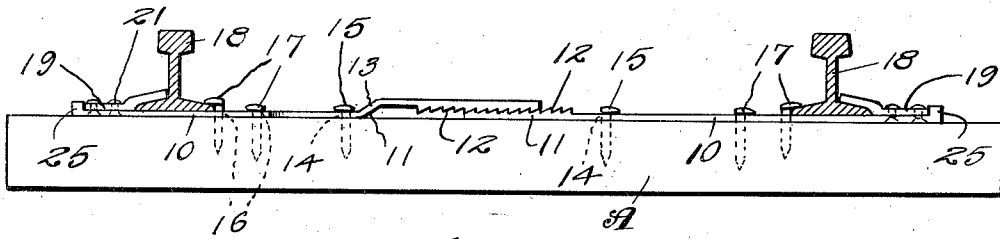


Fig. 2.

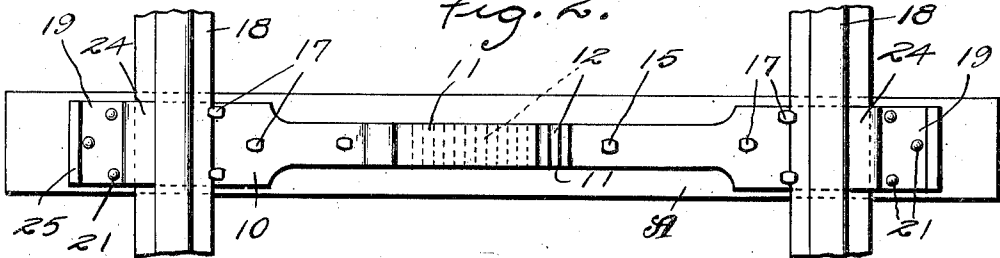


Fig. 3.

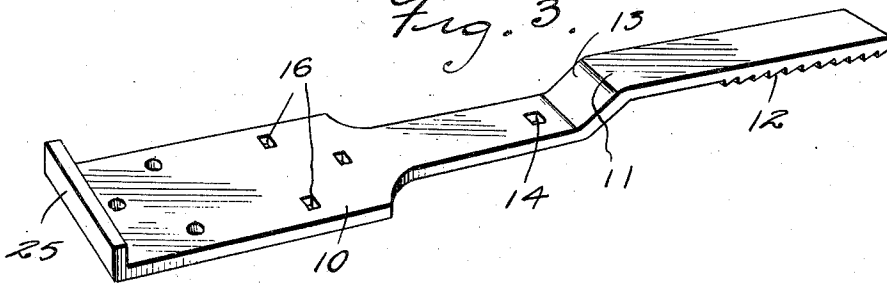


Fig. 4.

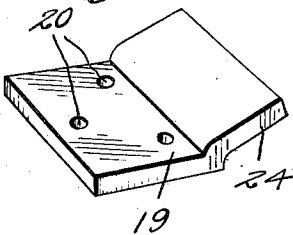
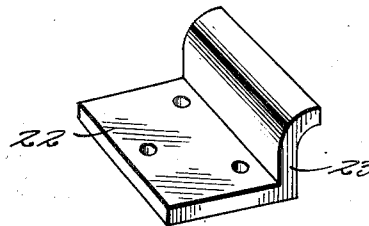


Fig. 5.



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TIE PLATE

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Application September 21, 1936, Serial No. 101,852

1 Claim. (Cl. 238—288)

The invention relates to an anti-rail spreader and more especially to an adjustable tie plate for railway rails.

The primary object of the invention is the provision of a plate of this character, wherein the same is adapted to be superimposed upon a cross tie so that the rails of a railway track can be secured against spreading, the plate being sectional for permitting adjustment so as to fit rails of different gages and also to take up wear.

Another object of the invention is the provision of a plate of this character, wherein the rails of railway rails will be braced and such rails will be prevented from spreading as pull thereon is avoided, the plate being susceptible of fastening to a cross tie and also allows the rails to be secured to the said tie.

A further object of the invention is the provision of a plate of this character, which is simple in construction, thoroughly reliable and effective in operation, light in weight yet strong, durable, easy of placement and inexpensive to manufacture and install.

With these and other objects in view, the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawing, which discloses the preferred embodiment of the invention and pointed out in the claim hereunto appended.

In the accompanying drawing:

Figure 1 is a side elevation of a cross tie showing the tie plate constructed in accordance with the invention placed thereon and supporting rails of a railway track.

Figure 2 is a top plan view.

Figure 3 is a perspective view of one of the sections of the tie plate.

Figure 4 is a clamp for use with the tie plate.

Figure 5 is a perspective view of a modified form of clamp.

Similar reference characters indicate corresponding parts throughout the several views in the drawing.

Referring to the drawing in detail, A designates generally a cross tie as placed in a railway road bed and as usual is made from wood. Upon this tie is arranged the tie plate constituting the present invention and hereinafter fully described.

The tie plate comprises a pair of flat bearing sections 10 having extended from the inner ends thereof adjustably interlocking arms or extensions 11, these being adapted to overlap each other at the center of the tie and on confronting faces thereof are formed serrations or teeth 12 for interlocking engagement with each other, one of the arms is formed with a bight or offset 13 so that the other arm can be disposed in underlying relation to the inner end portion of this

arm having the bight or offset for the interlocking of the teeth 12 when the tie plate is superimposed upon the cross tie A.

Each arm is provided with a spike hole 14 for receiving a spike 15 while the bearing sections 10 next to the arms 11 are formed with spike holes 16 for accommodating spikes 17, certain of the latter spikes being adapted to fasten rails 18 in place upon the tie plate and superimposed upon the sections 10.

At the outer side of the rails 18 of the track are arranged clamps 19, these having holes 20 for rivets 21, which are anchored or fastened in the sections 10 of the tie plate and this clamp overhangs the base of the rail 18 next thereto. Thus in this manner the rails 18 are fastened in place on the tie plate which is also fastened in place upon the cross tie A.

In Figure 5 of the drawing there is shown a slight modification wherein the clamp 22 has the upstanding laterally curled flange 23 in contradistinction to the angularly disposed portion 24 of the clamp 19.

The tie plate is susceptible of adjustment according to the gage of the track and when in working position will prevent spreading of the rails 18 with respect to each other and at the same time the rails can not work loose at the cross tie A.

Each section 10 at its outer end is formed with an up-turned abutment 25 for the clamp riveted to such section and such abutment effects a brace in conjunction with the clamp 19 for the rail.

What is claimed is:

In a tie plate of the kind described, a pair of plate-like members, each having an outer wide end and a reduced relatively narrow inner end, one of the inner ends being upwardly struck to have a portion thereof superposed to the other inner end and in overlapping relation thereto with the outer ends of said members lying in the same plane with each other, interfitting teeth formed on the inner ends of said members at the faces confronting each other for adjustably latching the members one with the other, upstanding flanges bent from the outer ends at the end edges thereof, track clamps superimposed upon the outer ends of said members for abutment with the said flanges and secured to said outer ends for clamping traction rails at the outer sides thereof when seated upon the outer ends of said members, and series of spikes passed through the said members and engaging a bed between the location of the rails and the overlapped inner ends of said members, certain of the fasteners being engaged with the rails at the inner sides thereof and the remaining fasteners securing the members interlocked with each other and to the bed.

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