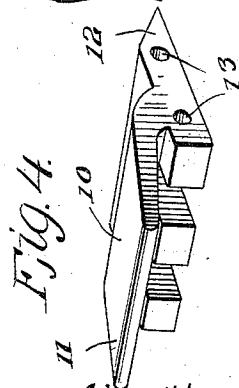
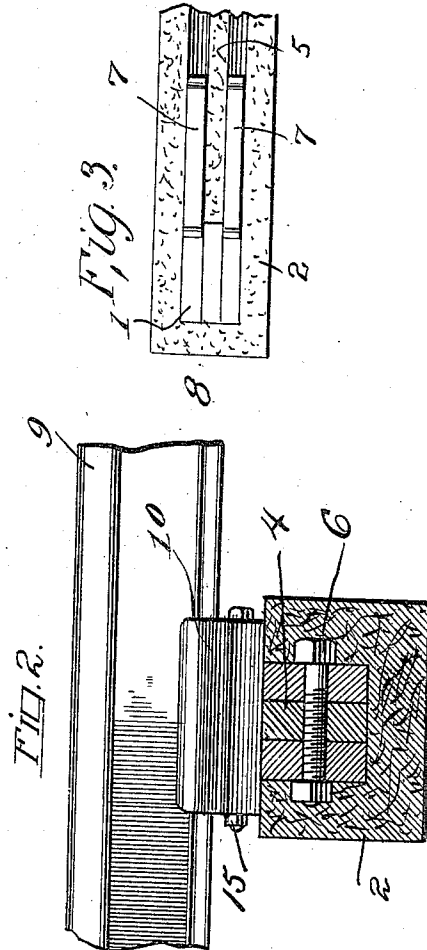
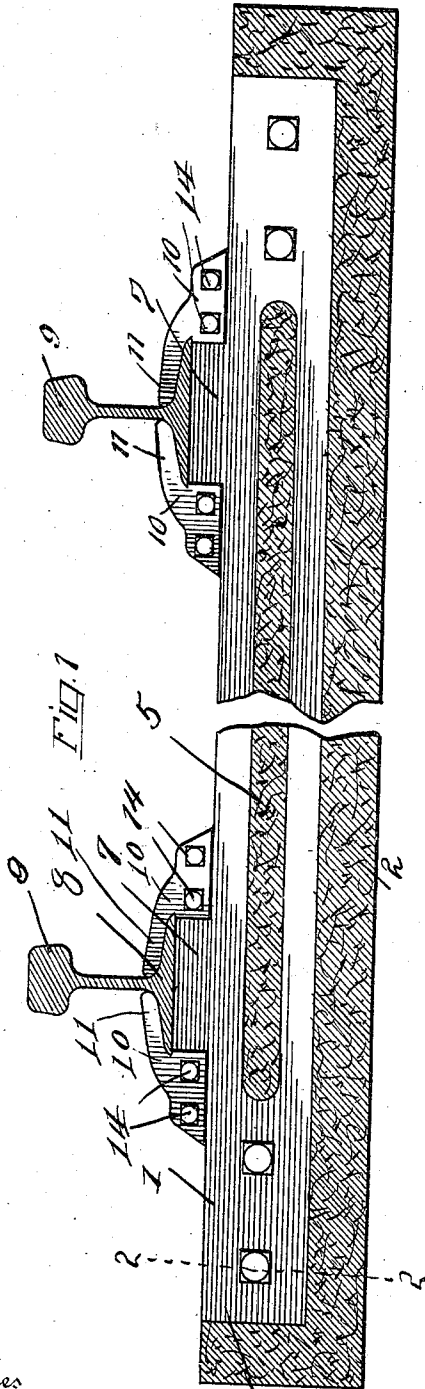


A. WESTING.
 CONCRETE AND STEEL TIE.
 APPLICATION FILED AUG. 3, 1909.

987,520.

Patented Mar. 21, 1911.



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UNITED STATES PATENT OFFICE.

AIGHTING WESTING, OF CLEVELAND, TEXAS.

CONCRETE AND STEEL TIE.

987,520.

Specification of Letters Patent.

Patented Mar. 21, 1911.

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To all whom it may concern:

Be it known that I, AIGHTING WESTING, a citizen of the United States, residing at Cleveland, in the county of Liberty and State of Texas, have invented new and useful Improvements in Concrete and Steel Ties, of which the following is a specification.

This invention relates to improvements in railroad ties, and is directed to that class of ties constructed of plastic material which is suitably reinforced with metal, and the object of the invention is to provide a device of this character which is comparatively cheap to manufacture, which provides a firm and secure bearing for the rails and which is strong and durable.

With the above, and other objects in view, which will appear as the description progresses, the invention resides in the novel construction and combination of elements hereinafter fully described and claimed.

In the accompanying drawings, there has been illustrated a simple and preferred embodiment of the improvements, and in which,—

Figure 1 is a vertical, longitudinal, sectional view of the improvement. Fig. 2 is a transverse, sectional view upon the line 2—2 of Fig. 1. Fig. 3 is a top plan view of one end of the tie, the securing device being removed. Fig. 4 is a perspective view of one of the securing devices.

In the accompanying drawings, the numeral 1 designates the tie proper. This tie 1 is of the ordinary rectangular form, corresponding to the ordinary wooden ties now in use, but the improvement comprises a plastic body 2 constructed of cement, or like material, and metallic members 3. The metallic members 3 are preferably two in number and have their ends spaced apart through the medium of suitable blocks 4. The members 3 are each provided with an elongated slot, as indicated by the numeral 5, and this slot is adapted for the reception of the plastic material forming the body 2, and whereby the said metallic members are effectively secured to the body. The ends of the metallic members 3, as well as the spacing blocks 4, are each provided with alining

openings which are adapted for the reception of suitable retaining elements 6.

The upper edges of the spaced metallic plates 3 are each provided, at a suitable distance away from their ends, with upwardly projecting or offset members 7, and these projections have their faces or edges horizontally straight and adapted to provide a bearing for the base flanges 8 of the rail members 9.

The numeral 10 designates the rail securing members. These members 10 are each provided with a projecting lip 11 having its under face of a contour corresponding with the upper faces 8 of the rail members 9, and the rearwardly extending portion of the body of the said member 10 is integrally formed with a plurality of depending ears, three in number, as indicated by the numeral 12. The ears 12 are suitably spaced apart, and the central ear is of a width equaling the distance between the projecting members 7 of the metallic plates 3, while the outer ears are adapted to engage the outer face of the said projecting members 7. The ears 12, as well as the members 7, are each provided with alining openings 13, and these openings are adapted for the reception of suitable retaining elements, such as bolts 14, having the usual nuts 15.

From the above description, taken in connection with the accompanying drawings, the advantages of construction will be apparent to those skilled in the art to which the invention appertains, and while I have described and illustrated the best embodiment thereof, I desire to have it understood that the device shown is simply illustrative and that such changes in proportion and minor details of construction, as fall within the scope of the following claim, may be made if desired.

I claim:—

A railroad tie comprising a plastic body, a pair of spaced metallic plates within the body, said plates having their upper edges terminating with the top of the tie and having their sides provided with longitudinally extending centrally arranged openings, transverse connecting members for the ends of the plates, each of said plates being pro-

vided with alining offset projections having horizontally straight upper edges adapted to serve as seats for the rails, rail securing members, said rail securing members being
5 provided with a body portion and an overlying flange, the body portion having its under face cut away to provide a central tongue and the walls provided by the tongue and the ends of the body adapted to embrace

the projecting portions of the plates, and 10 means for securing the body to the projecting portions of the said plates.

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

AIGHTING WESTING.

Witnesses:

M. A. WESTING,
E. L. SMITH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
