F. STILL.

SHOE FOR RAILROAD TIES.

APPLICATION FILED JAN. 15, 1913.

1,077,173. Patented Oct. 28, 1913.

Fig. 1.

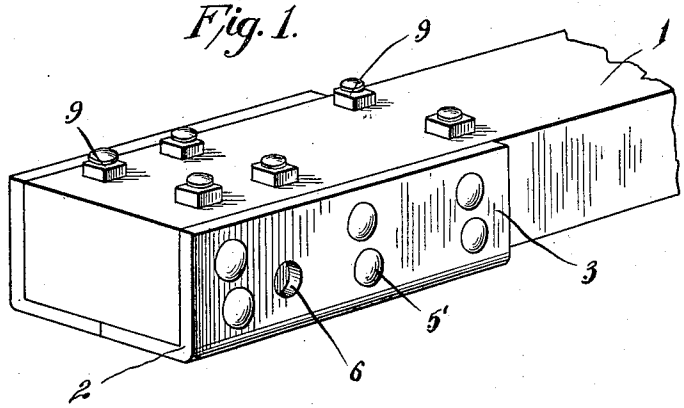
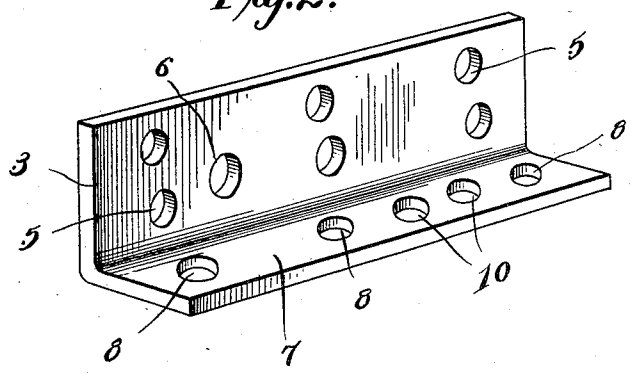


Fig. 2.



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UNITED STATES PATENT OFFICE.

FRANK STILL, OF MORTONVILLE, PENNSYLVANIA.

SHOE FOR RAILROAD-TIES.

1,077,173. Specification of Letters Patent. Patented Oct. 28, 1913.

Application filed January 15, 1913. Serial No. 742,244.

To all whom it may concern:

Be it known that I, FRANK STILL, a citizen of the United States, residing at Mortonville, in the county of Chester and State of Pennsylvania, have invented new and useful Improvements in Shoes for Railroad-Ties, of which the following is a specification.

The present invention relates to a shoe for railroad ties.

In carrying out my invention I propose to provide a railroad tie with a shoe that shall be attached to the corners thereof to strengthen the said tie, to provide a stronger bearing for the rails, and to give the tie a more effective bearing upon the road bed, and to prevent the lateral movement of the ties.

With the above recited objects in view and others which will appear as the nature of the invention is more fully understood, the improvement resides in the construction, combination and operative arrangement of parts set forth in the following description and falling within the scope of the appended claims.

In the drawing: Figure 1 is a perspective view of a tie provided with my improved shoe, and Fig. 2 is a perspective view of the shoe detached.

While in the drawing the shoe is illustrated as attached to a wooden tie, and it will be so described in the specification, it is to be understood that the shoe may be applied to a metallic or concrete or wooden tie with equal efficiency.

Referring now to the drawing in detail, the numeral 1 designates an ordinary wooden railroad tie, and 2 my improved shoe. The shoe is formed of metal, either cast, molded or bent and embodies a substantially L-shaped member. The shoes, as illustrated in Fig. 1 of the drawings are secured to the sides adjacent the ends of the tie. The vertical portion of the shoe, which is designated by the numeral 3, is provided with a plurality of openings arranged in pairs and designated by the numerals 5. These openings are adapted for the reception of suitable securing elements 5′. The securing elements may be of any desired form or design, and the side 3 is further provided with an additional opening 6, the same being adapted for the reception of a pinch bar whereby either the shoe or the ties may be moved longitudinally. The horizontal member of the shoe, designated by the numeral 7, is also provided with a plurality of openings 8 each of which being adapted for the reception of securing elements 9, and the said horizontal member is further provided with additional openings 10 which serve as outlets for any moisture accumulating at the ends of the ties. The inner edges of the shoes provide, what may be termed, shoulders which extend below the ties and it will be readily seen that earth tamped below the tie and between the said shoulders will prevent the lateral movement of the ties. Further, the shoes obviate the liability of the lateral expansion of the ties, and as the vertical members 3 of the shoes are adapted to terminate with the upper horizontal face of the tie 1, the said shoes provide a rest for the rails which are secured to the tie.

From the above description, taken in connection with the accompanying drawing, the simplicity of the device, as well as the advantages thereof, will it is thought, be perfectly apparent to those skilled in the art to which such invention appertains without further detailed description.

Having thus described the invention, what I claim is:

1. A tie having its opposite sides adjacent its ends provided with L-shaped removable shoes, said shoes having their vertical members of a height corresponding with the height of the tie, and said shoes fully covering the bottom of the tie.

2. In combination with a wooden tie, of metallic shoes for the ends of the tie, said shoes comprising two L-shaped members which have their vertical portions formed with openings, certain of which alining for the reception of securing elements, the horizontal members of the shoes adapted to underlie the tie and have their edges contact, the said horizontal members being provided with a plurality of openings, certain of which being adapted for the reception of securing elements which pass vertically through the tie, and the remaining openings serve as moisture outlets.

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

FRANK STILL.

Witnesses:

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CHARLES HEWES.

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