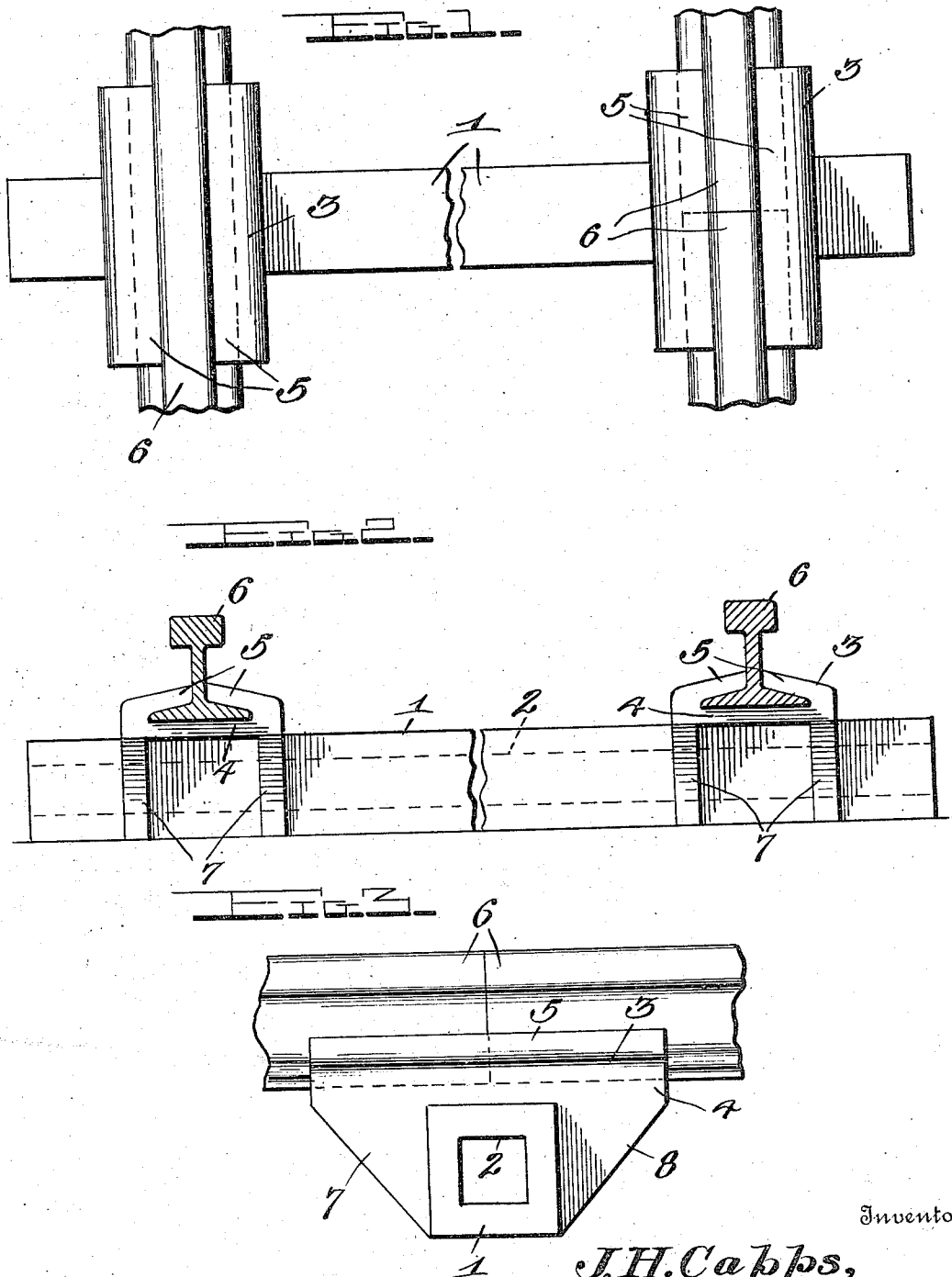


J. H. CAPPS.
METALLIC TIE AND RAIL CHAIR.
APPLICATION FILED JULY 13, 1912.

1,045,255.

Patented Nov. 26, 1912.



Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

JOHN HENRY CAPPS, OF TOLBERT, TEXAS.

METALLIC TIE AND RAIL-CHAIR.

1,045,255.

Specification of Letters Patent.

Patented Nov. 26, 1912.

Application filed July 13, 1912. Serial No. 709,223.

To all whom it may concern:

Be it known that I, JOHN HENRY CAPPS, a citizen of the United States, residing at Tolbert, in the county of Wilbarger and State of Texas, have invented certain new and useful Improvements in Metallic Ties and Rail-Chairs, of which the following is a specification, reference being had to the accompanying drawings.

10. This invention relates to new and useful improvements in combined railway ties and chairs, the object of the invention being to provide a railway tie and chair whereby the rails will be securely fastened to the tie and will do away with the old wooden cross tie now in use.

15. Another object of the invention is to provide a device of this character which will possess advantages in points of efficiency and durability, is inexpensive to manufacture and at the same time is simple in construction and operation.

20. With the above and other objects in view the invention consists in the novel features of construction and the combination and arrangement of parts hereinafter more fully described, pointed out in the claims and shown in the accompanying drawings in which,

30. Figure 1 is a top plan view. Fig. 2 is a side elevation and Fig. 3 is an end elevation.

Referring more particularly to the drawings, 1 indicates the metallic cross tie, preferably constructed of substantially rectangular form and provided with a centrally arranged longitudinal opening 2 which is substantially the same shape as the body of the tie. Formed upon the upper face of the tie and arranged adjacent each end thereof are the rail chairs 3, said chairs each comprising a base member 4 having the inwardly extending spaced flanges 5 formed integral therewith and which are adapted to be disposed over the outwardly extending base of the rails 6. These flanges 5 which engage over the base of the rails will prevent any relative lateral movement of the rails.

40. Formed integral with the base 4 and the rail 1 and arranged upon opposite sides of the rail are the spaced bracing webs 7 which are cut away as shown at 8 so as to form the webs in substantially triangular shape. These bracing webs 7 are arranged at each

end of the chair 3 so as to securely support the same.

55. In placing the rails upon the ties, the same will be arranged within the chairs by inserting the ends of the rails beneath the flanges 5, the rails being moved longitudinally until they are securely arranged beneath the flanges. After the rails have been arranged beneath the flanges 5 any suitable fastening means may be employed to hold the rails against any longitudinal movement.

60. From the above description taken in connection with the accompanying drawings, it will be readily apparent that I have provided a simple and durable combined tie and chair whereby the additional employment of securing means is eliminated, that is the detachable fastening means which are used at the present time are done away with.

70. While I have shown and described the preferred form of my invention it will be obvious that various changes in the details of construction and in the proportions may be resorted to for successfully carrying my invention into practice without sacrificing any of the novel features of construction or departing from the scope thereof.

80. What I claim is:—

1. A combined cross tie and rail chair comprising a hollow rectangular tie having a chair formed integral adjacent each end thereof, said chairs each comprising a base, inwardly extending flanges formed integral with said base and arranged in spaced relation therefrom, and brace members disposed at each end of the chairs and arranged in pairs upon each side of the tie.

90. 2. A combined cross tie and rail chair comprising a hollow rectangular tie having a chair formed integral adjacent each end thereof, said chairs each comprising a base, inwardly extending flanges formed integral with said base and arranged in spaced relation therefrom, and substantially triangular bracing webs formed at each end of the chair and arranged in pairs upon each side of the tie.

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

JOHN HENRY CAPPS.

Witnesses:

W. N. STOKES,
VERNA LUCKY.