May 13, 1930. J. D. GATCH 1,758,282

RAIL CHAIR

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Fig. 1.

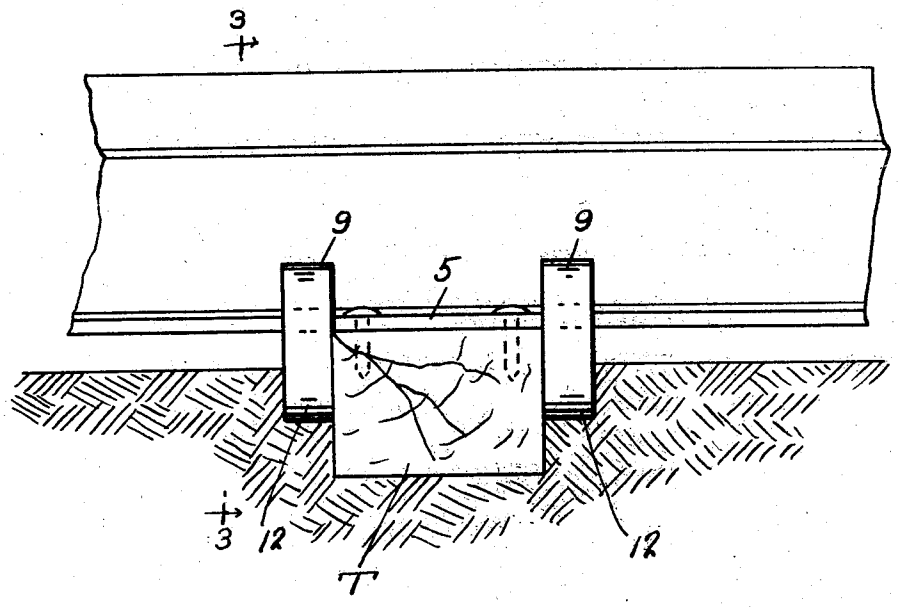
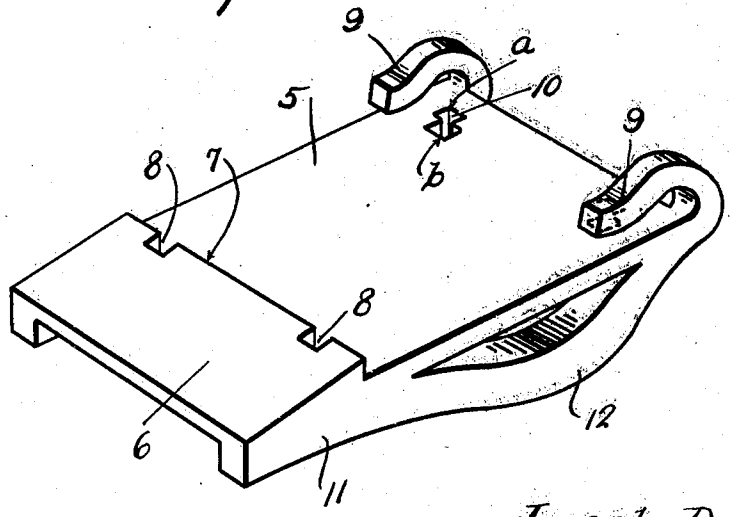


Fig. 2.



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Fig. 3.

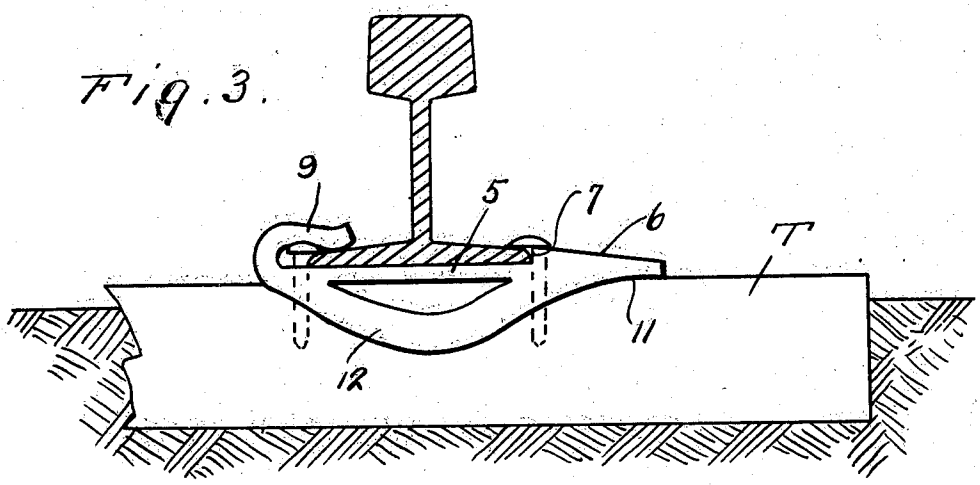
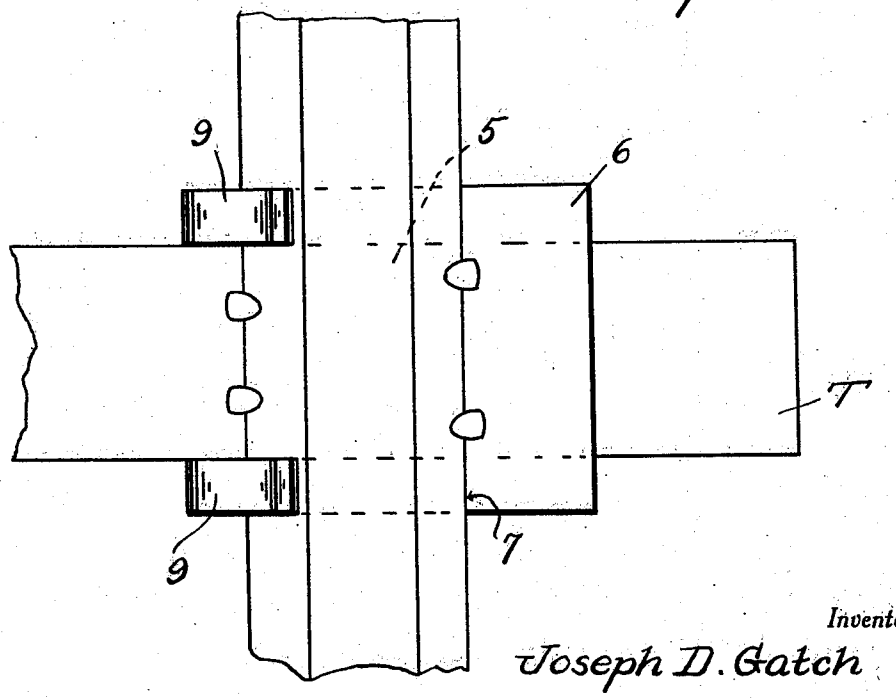


Fig. 4.



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UNITED STATES PATENT OFFICE

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RAIL CHAIR

Application filed July 2, 1929. Serial No. 375,360.

The present invention relates to a rail chair and has for its prime object to combine the features of a tie plate and rail anchor.

Another very important object of the invention resides in the provision of a rail chair of this nature which may be easily engaged with the rail and disposed on the tie.

A still further very important object of the invention resides in the provision of a chair of this nature which is simple in its construction, inexpensive to manufacture, thoroughly efficient and reliable in use and otherwise well adapted for the purpose for which it is designed.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawing:

Figure 1 is a side elevation of a rail chair embodying the features of my invention showing the same in use,

Figure 2 is a perspective view thereof,

Figure 3 is a sectional view taken substantially on the line 3—3 of Figure 1, and

Figure 4 is a top plan view of the rail chair in use.

Referring to the drawing in detail it will be seen that the numeral 5 denotes a flat plate which is of oblong construction and is thickened at one end as at 6 to form a transverse shoulder 7 and openings 8 for spikes are formed in the plate and extend through the shoulder 7. At the other end of the plate 5 at the corners thereof are jaws 9 which are curved over the plate and at the inside of the extremities of these jaws are spike openings each formed in two sections *a* and *b*, the former for receiving the spikes when a 100 lb. rail is used and the latter for receiving spikes when a 90 lb. rail is used. The jaws 9 are of a configuration to permit the same to be sprung slightly away from the plate 5 when inserting the base of the rail thereunder to facilitate the positioning of said rail.

Under the longitudinal side edges of the plate 5 are ribs 11, intermediate portions of which are separated from the plate 5 and bowed downwardly as is indicated at 12 for the purpose of straddling a tie as is indicated to advantage in Figure 1. To install one of these chairs, the outside of the plate 5 is placed under the inside of the rail on top of the tie after the rail has been jacked up about one inch and then tapped lightly with a spike mallet until the shoulder of the plate clicks on the outside of the rail and then the jack is let down and the plate is fastened to the tie.

If the workman finds that some ties are too wide for the rail anchored to fit down on each side of the tie, the tie will be trimmed down to fit between the ribs 11, 12.

It is thought that the construction, operation, utility and advantages of this invention will now be quite apparent to those skilled in this art without a more detailed description thereof.

The present embodiment of the invention has been described in considerable detail merely for the purposes of exemplification since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description.

It will be apparent that changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:

A rail chair of the class described comprising an oblong plate with a pair of integral jaws formed on the forward marginal edge thereof and extending forwardly, up-

wardly and then rearwardly and downwardly over the plate for engaging the base of the rail with their free end portions, the other end of the plate being thickened to form a transverse shoulder, and ribs formed under the side edges of the plate, intermediate portions of the ribs being separated from the plate and bowed downwardly, said plate having openings extending therethrough and through the shoulder and also openings extending therethrough one and adjacent each jaw.

In testimony whereof I affix my signature.

JOSEPH D. GATCH.