

G. W. HIMLER.
 COMBINED RAIL CHAIR, SPLICE BAR, AND TIE PLATE.
 APPLICATION FILED NOV. 15, 1911.

1,079,242.

Patented Nov. 18, 1913.

2 SHEETS—SHEET 1.

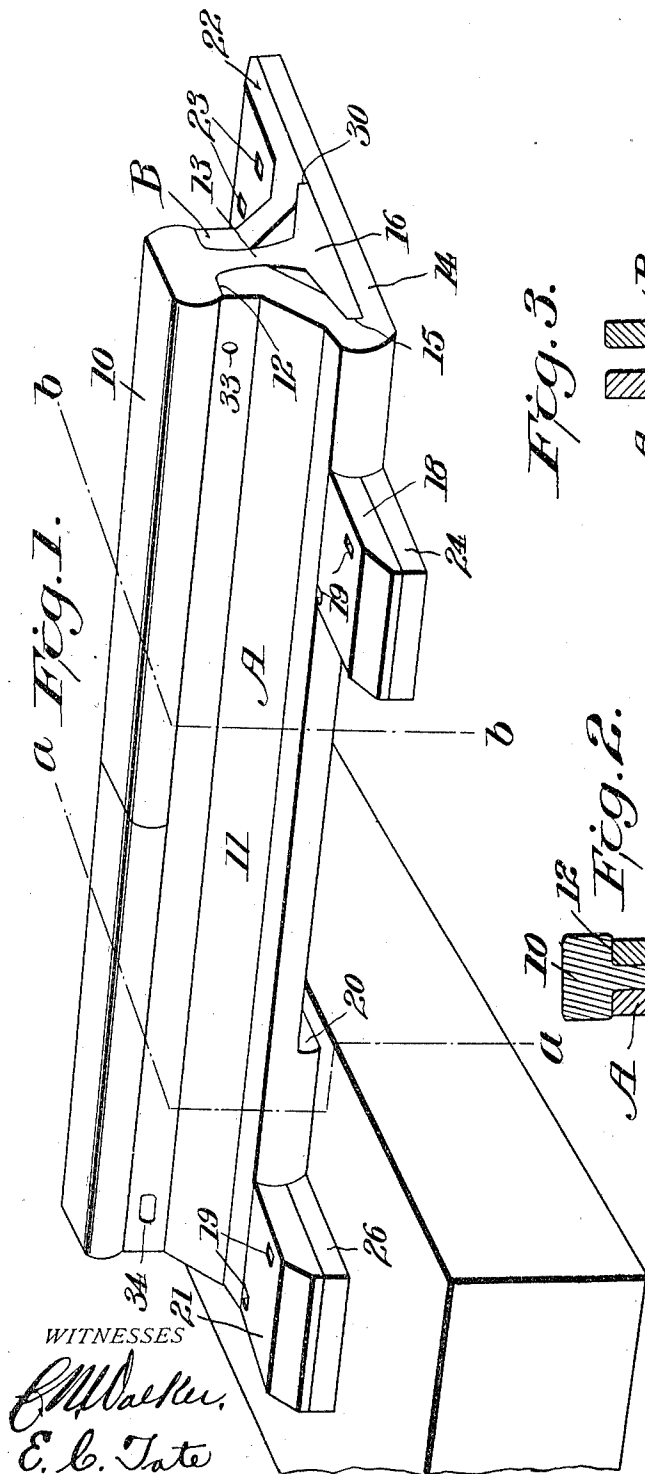


Fig. 3.

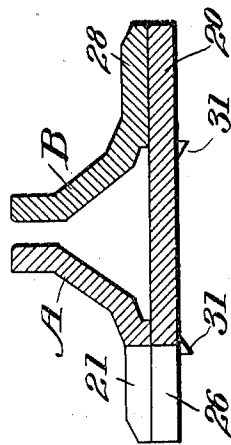
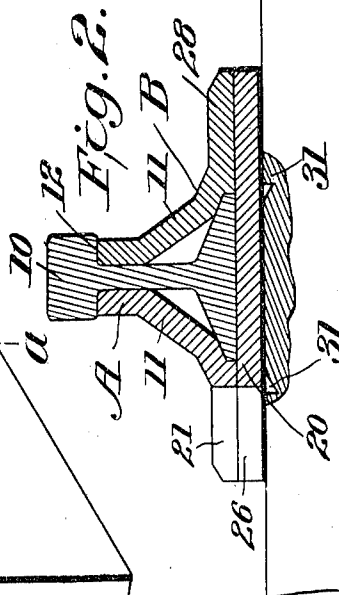


Fig. 2.



INVENTOR

George W. Himler

By [Signature] Attorney

G. W. HIMLER.
 COMBINED RAIL CHAIR, SPLICE BAR, AND TIE PLATE.
 APPLICATION FILED NOV. 15, 1911.

1,079,242.

Patented Nov. 18, 1913.

2 SHEETS—SHEET 2.

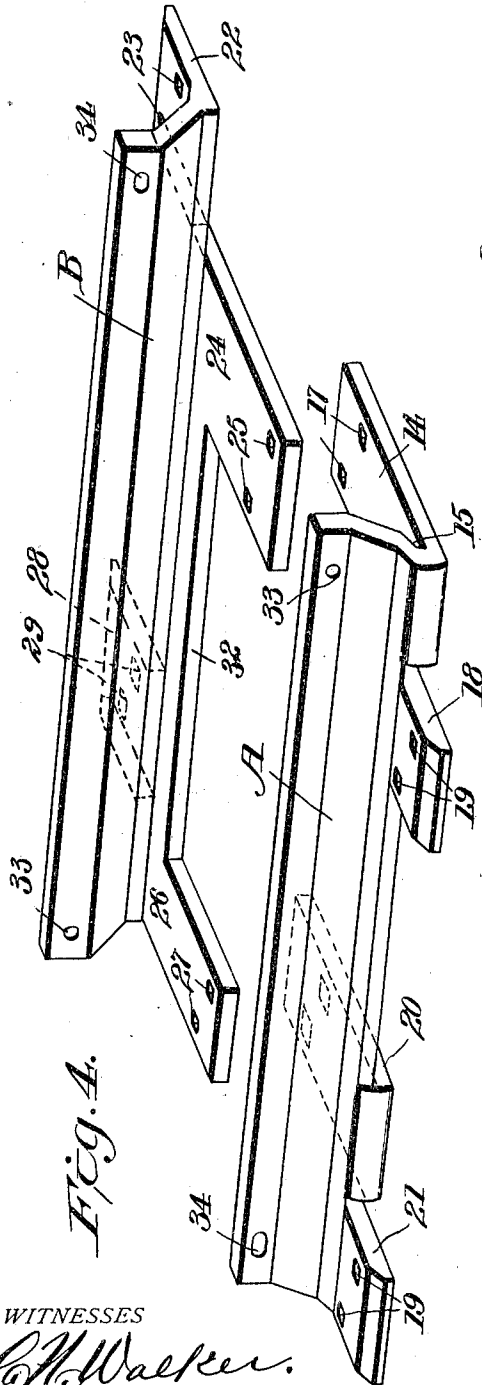


Fig. 4.

Fig. 6.

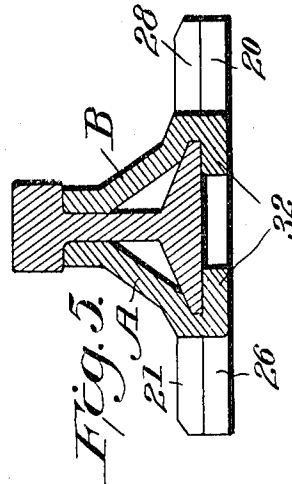
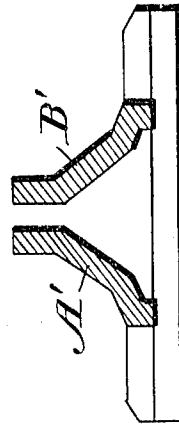


Fig. 5.

WITNESSES

C. H. Walker.
E. C. Tate

INVENTOR

George W. Himler

By J. H. Adams Attorney

UNITED STATES PATENT OFFICE.

GEORGE W. HIMLER, OF NORTH LATROBE, PENNSYLVANIA.

COMBINED RAIL-CHAIR, SPLICE-BAR, AND TIE-PLATE.

1,079,242.

Specification of Letters Patent.

Patented Nov. 18, 1913.

Application filed November 15, 1911. Serial No. 660,396.

To all whom it may concern:

Be it known that I, GEORGE W. HIMLER, citizen of the United States, residing at North Latrobe, in the county of Westmoreland and State of Pennsylvania, have invented certain new and useful Improvements in Combined Rail-Chairs, Splice-Bars, and Tie-Plates, of which the following is a specification.

This invention relates to a combined rail chair, splice bar and tie plate.

One object is to provide a splice bar constructed and associated with other elements whereby railroad rails may be firmly supported at their abutting ends or intermediate the ends of a single section and held against spreading incident to the weight of rolling stock thereon or to other causes.

Another object is to provide a rail chair formed of two members with the members so formed as to provide a chair, splice bars, and means whereby the same may be readily secured together and to the ties with the rail supported firmly thereby.

A still further object is to provide a simple, inexpensive, efficient, and durable device whose parts are so formed as to provide a combined chair, splice bar and tie plate.

With the above and other objects in view, the invention consists in the combination of parts hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claim; it being understood that various changes in the form, proportion, size and minor details of construction, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings:—Figure 1 is a perspective view of the invention applied to a rail section. Fig. 2 is a transverse sectional view on the line *a— a* of Fig. 1. Fig. 3 is a transverse sectional view with the rail section removed. Fig. 4 is a view of the device in its separated condition. Fig. 5 is a transverse sectional view on the line *b— b* of Fig. 1. Fig. 6 is a transverse sectional view illustrating a modification.

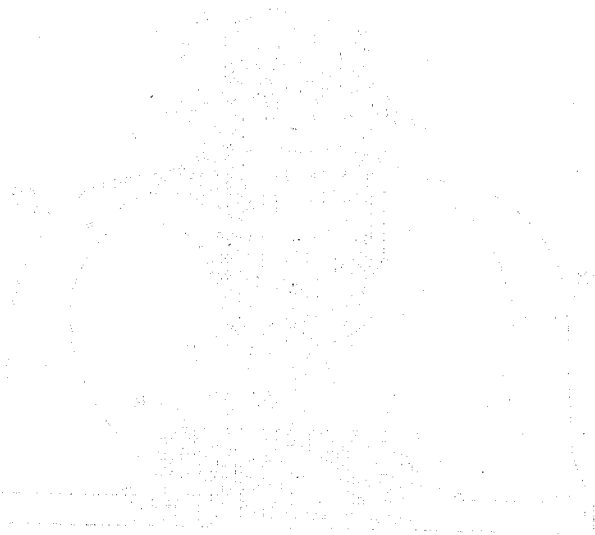
Referring now to the accompanying drawings and more particularly to Figs. 1 to 5, inclusive, there is shown a track rail 10 and when these track rails 10 are mounted on ties for the guidance and support of railway rolling stock, their abutting ends are brought together and they are usually connected by suitable means for preventing spreading and

disconnection of the abutting rail sections and various means have been provided for this purpose, but in the present instance, I provide a simple, inexpensive, durable and efficient combined splice bar, chair and tie plates, the combined device being preferably formed of two pieces, each of which is preferably the same in formation so that the device may be quickly and readily assembled, and when necessary, easily reversed as regards one part with reference to the other. With this understanding, the character 10 indicates a rail section, it being deemed unnecessary to show more than one section, for it is obvious how the abutting sections may be readily connected together. Furthermore, my improved combined chair, splice bar and tie plate is serviceable not only at joints of abutting sections but at other points throughout the rails.

The members A and B are the two parts of which my combined device is composed. The part A embodies a splice bar section 11 whose upper edge is adapted to engage jointly the underside 12 of the tread surface of the rail with its inner longitudinal face, at its upper edge, formed for flush engagement with the corresponding side of the web 13 of the rail.

At one end of the member A is disposed an inwardly directed plate 14 and this plate is directed at such an angle to the inclined body portion of the splice bar 11 as to provide a groove 15 for the snug reception of the corresponding side of the foot 16 of the rail 10, which foot portion 16 is adapted to rest on its plate 14. The plate 14 has diagonally disposed apertures 17 for a purpose presently explained. Adjacent the inner end of the plate 14 is an outwardly directed plate 18 which also has diagonally disposed apertures 19. Spaced from the aforesaid plates 14 and 18 and directed inwardly of the member A is another plate 20 which is preferably of the same length as the plate 14 and formed in relation to the inclined body portion of the splice bar 11 in the same manner as the plate 14 so as to form another groove 15 for the reception of one side of the foot 16 of the rail 10, with the grooves arranged in alinement with each other. This plate 20, like the plate 14, also has diagonally disposed apertures 17. Adjacent the plate 20 and directed outwardly of the member A is still another plate 21 which has apertures 19 like the plate 18, the plates 18 and 21

THE UNIVERSITY OF CHICAGO
LIBRARY



THE UNIVERSITY OF CHICAGO
LIBRARY

THE UNIVERSITY OF CHICAGO
LIBRARY

THE UNIVERSITY OF CHICAGO
LIBRARY

THE UNIVERSITY OF CHICAGO
LIBRARY

portion adapted to brace the rails and whose outer edge is unbroken, each of said splice bar portions being provided with inwardly and outwardly directed projections with
5 spaces between the outwardly directed projections and a space arranged between the inwardly directed projections when the splice bar portions are assembled with the rail, and whereby the rail rests only on one
10 thickness of material, the inwardly directed projections being longer than the outwardly directed projections, the longer projections of one member underlying the shorter projections of the other member on the outside
15 only of the splice bar portions with the outer ends of the longer projections terminating beneath the outer ends of the shorter projections and with the longer and shorter projections provided with registering diagonally disposed apertures for the passage of
20 fastening elements therethrough, some of said projections carrying spurs of substantially triangular formation on their lower faces with their inclined faces opposite each
25 other, each splice bar portion having a slot at one end and an aperture at its opposite end with the slot of one splice bar portion registering with the aperture of the other splice bar portion and through which registering apertures and slots fastenings may
30 be passed to provide for the longitudinal adjustment of the splice bars.

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

GEORGE W. HIMLER.

Witnesses:

OLIVER K. FRY,
C. B. HIMLER.

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