

S. SLYK.
METALLIC TIE AND RAIL FASTENER.
APPLICATION FILED MAY 19, 1911.

998,412.

Patented July 18, 1911.

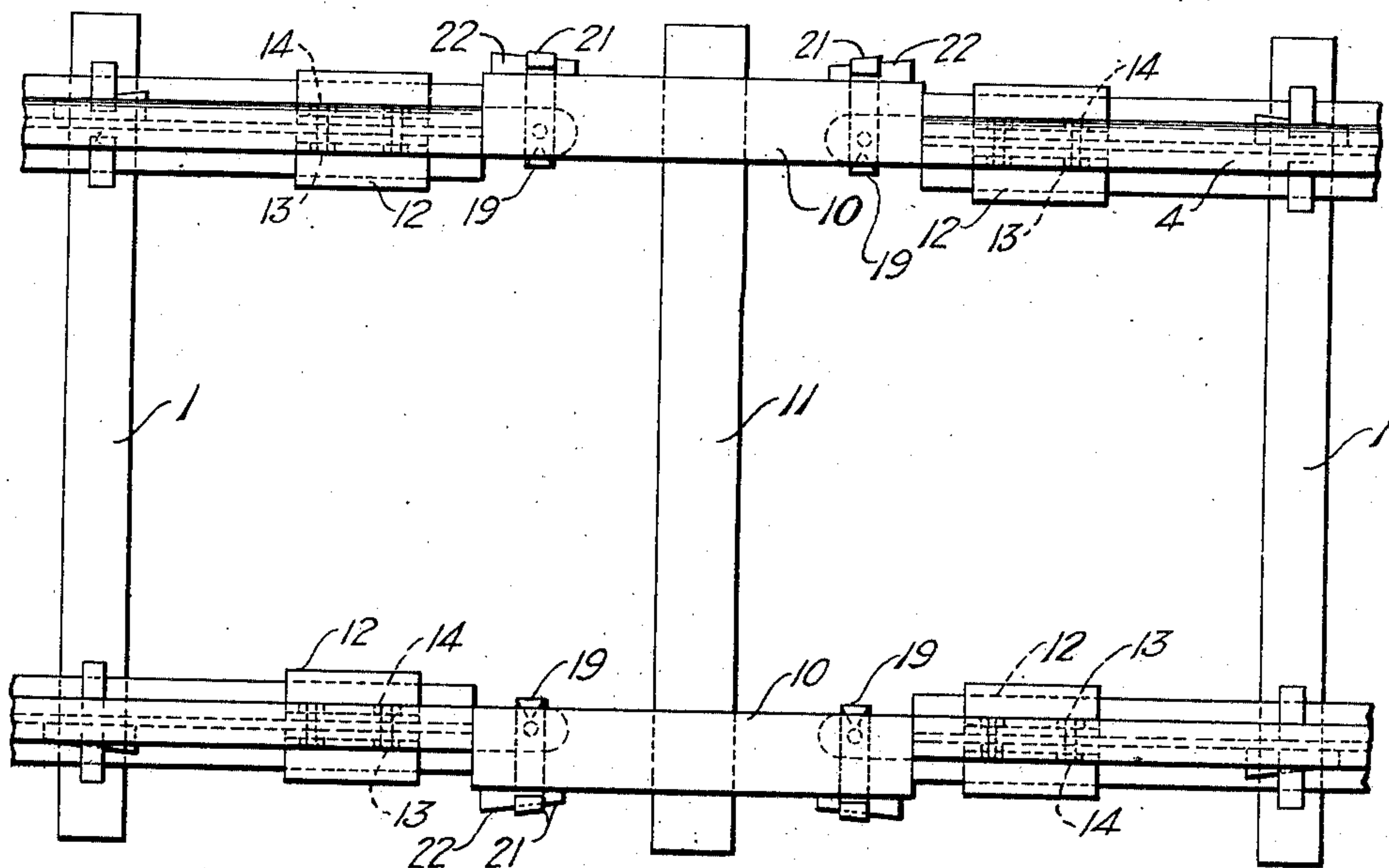


FIG. 1

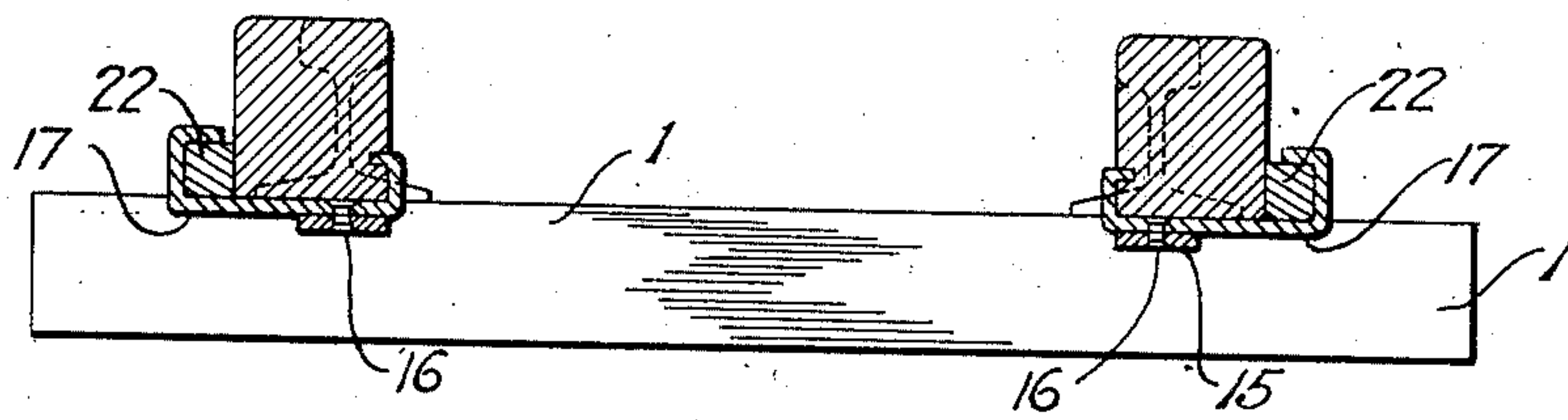


FIG. 2

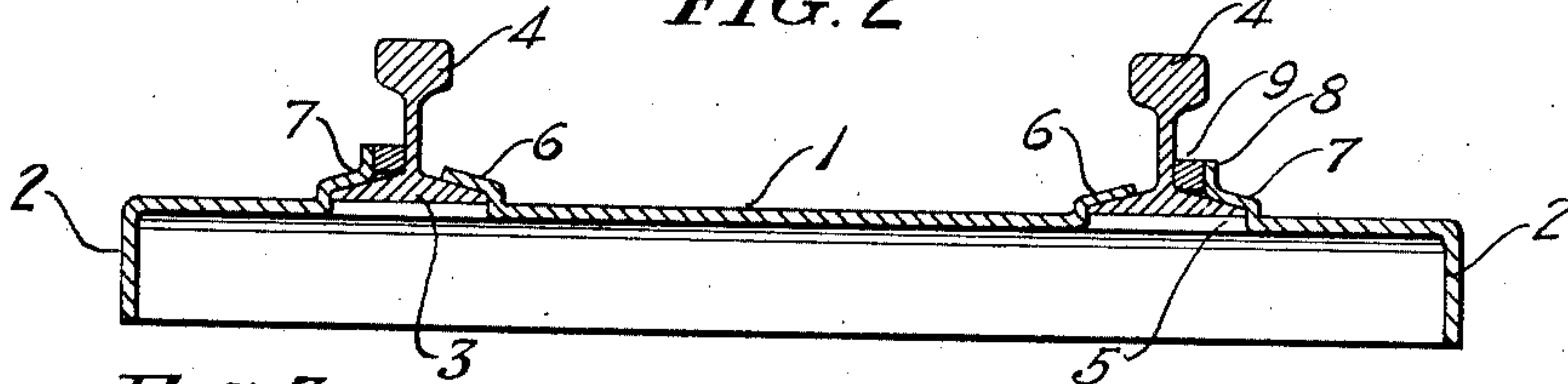


FIG. 3

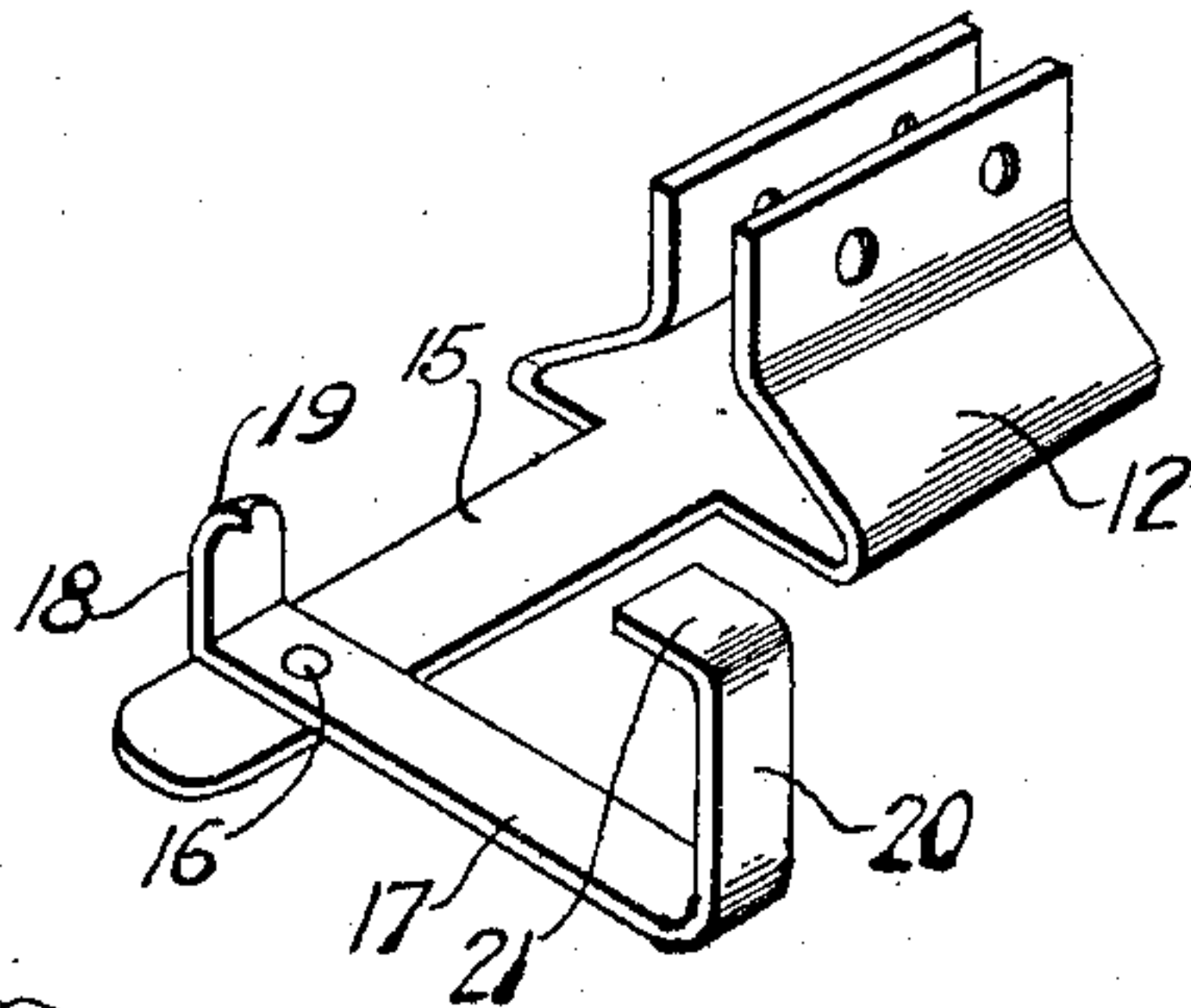


FIG. 4

WITNESSES:

J. Mahoney

R. H. Butler

INVENTOR.

S. SLYK.

BY

H. C. Everett & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

STANLEY SLYK, OF MINDEN, WEST VIRGINIA.

METALLIC TIE AND RAIL-FASTENER.

998,412.

Specification of Letters Patent.

Patented July 18, 1911.

Application filed May 19, 1911. Serial No. 628,168.

To all whom it may concern:

Be it known that I, STANLEY SLYK, a subject of the Emperor of Austria-Hungary, residing at Minden, in the county of Fayette and State of West Virginia, have invented certain new and useful Improvements in Metallic Ties and Rail-Fasteners, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to metallic ties and rail fasteners especially designed for electric railways or steam railways, wherein the rails are utilized for carrying electrical currents employed for operating block or other electrical signaling systems.

The objects of my invention are to provide a strong and durable metallic tie for supporting the rails of a track, and to furnish a tie with simple and effective means for positively retaining the rails thereon.

Further objects of my invention are to furnish a rail with insulated sections, and to provide novel fasteners for retaining the sections in position.

With the above and other objects in view, the invention resides in the novel construction, combination and arrangement of parts to be hereinafter specifically described and then claimed.

Reference will now be had to the drawing, wherein:—

Figure 1 is a plan of a portion of a track in accordance with this invention, Fig. 2 is a cross sectional view of the insulated sections of the track, Fig. 3 is a cross sectional view of the track illustrating one of the ties thereof, and Fig. 4 is an enlarged perspective view of a detached fastener.

A metallic tie in accordance with this invention comprises an inverted channel-shaped bar 1 having the ends thereof closed, as at 2. The top of the bar 1, adjacent to the ends thereof, is adapted to support the base flanges 3 of rails 4, said bar beneath the base flanges being cut away, as at 5, and the material bent upwardly to form malleable lugs 6 and 7, the latter being of a greater length than the former and the former constituting inner fasteners for the rails 4, while the latter constitutes outer fasteners. These malleable lugs are bent to engage the base flanges 3 after the rails have been placed upon the tie and the ends

of the lugs 7 are bent upwardly, as at 8 whereby wedges 9 can be driven between the lugs 7 and the rails to positively hold the rails upon the ties.

Arranged between the confronting ends of the rails 4 are sections 10 of insulation, as strong and durable wood, these sections resting upon a plain inverted channel bar 11. To retain the sections 10 in longitudinal alinement with the rails, fasteners are employed, each fastener comprising a chair 12 adapted to embrace the rail 4 contiguous to the ends thereof, said chair being secured to the web of the rail by bolts 13 and nuts 14. The base of the chair 12 is provided with an extension 15 extending underneath the section 10, and riveted or otherwise connected to the extension, as at 16 is a strap 17 having one end thereof bent upwardly, as at 18 and provided with a prong 19 adapted to engage in the inner side wall of the section 10. The opposite end of the strap 17 is bent upwardly, as at 20 and inwardly, as at 21 and between said strap and the section 10 there is driven a wedge 22. The wedge 22 forces the section into engagement with the prong 19 and firmly anchors the section of insulation between the abutting ends of the rails.

What I claim is:—

The combination with metal ties adapted to support rails, of sections of insulation interposed between the confronting ends of said rails, chairs embracing said rails and secured thereto adjacent to the ends thereof, extensions carried by said chairs and extending under said sections of insulation, straps carried by said extensions, each strap having one end thereof bent upwardly to provide a prong adapted to engage in the inner side wall of said section of insulation, said strap having the opposite end thereof bent upwardly at the outer side of said section of insulation, and a wedge mounted between the last mentioned bent end of said strap and said section of insulation, substantially as described.

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

STANLEY SLYK.

Witnesses:

H. A. DUNCAN,
THEODOR LUDAT.