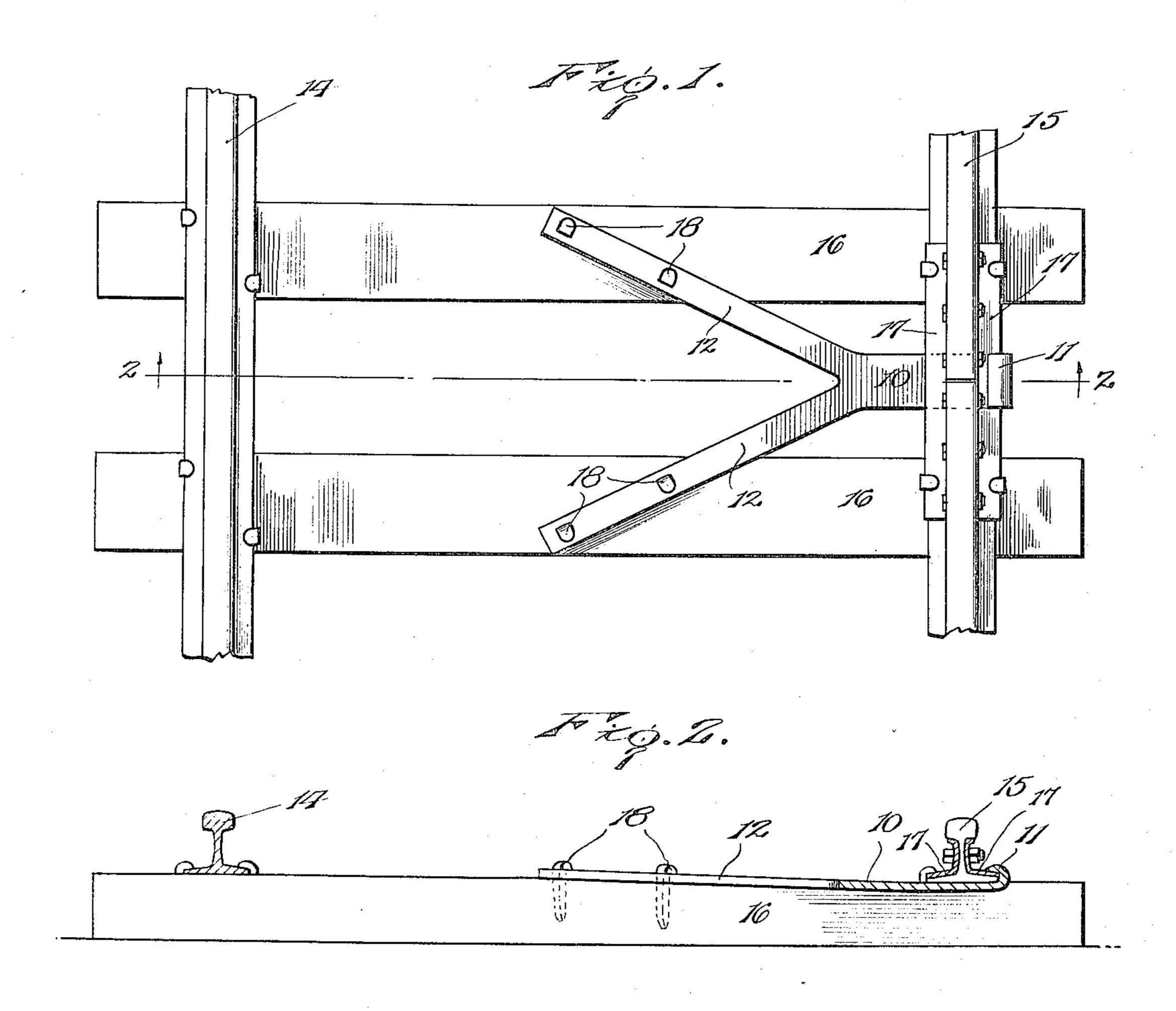
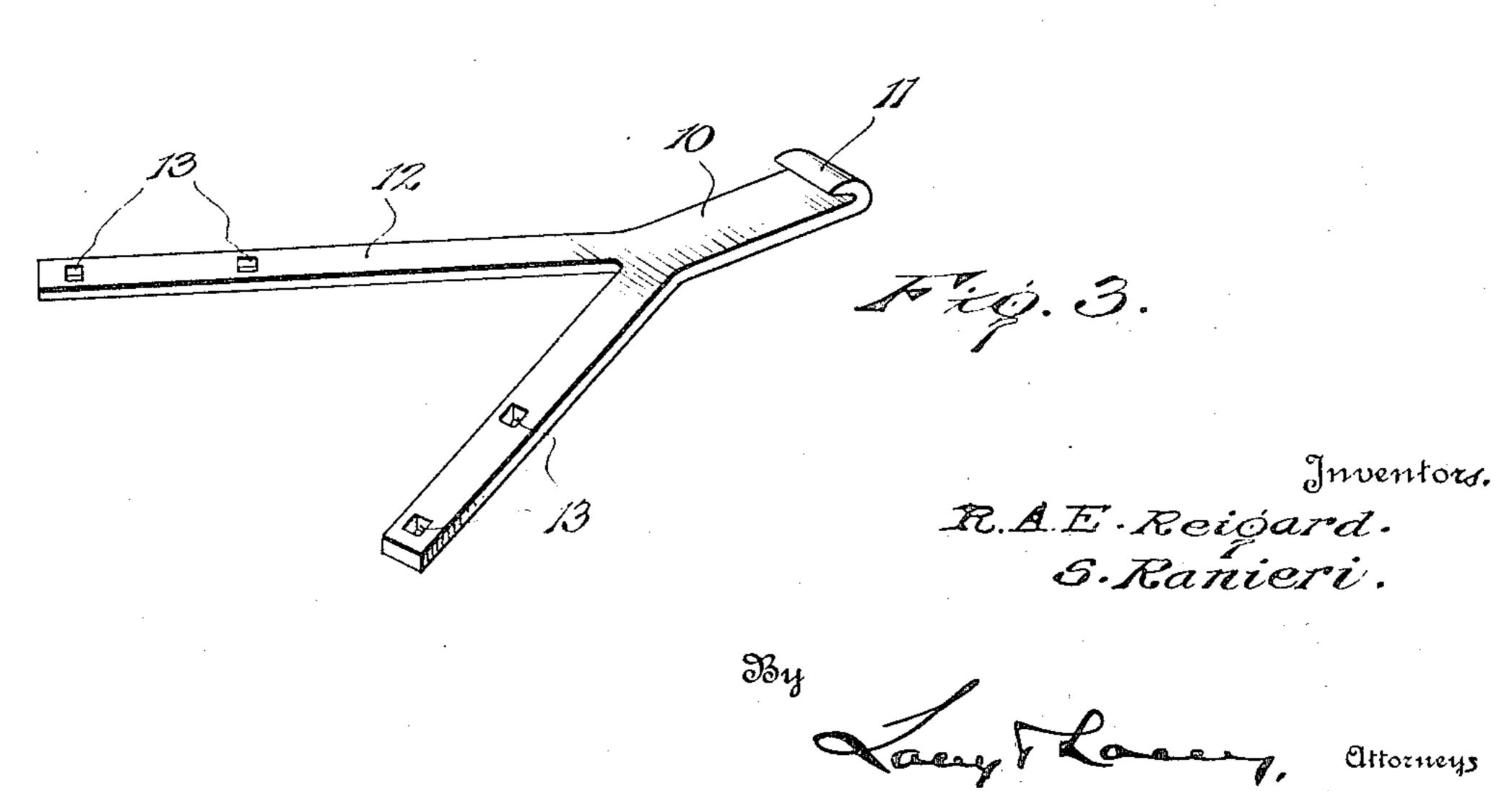
R. A. E. REIGARD ET AL.
RAILWAY RAIL BRACE.
FILED APR. 18, 1922.





UNITED STATES PATENT OFFICE.

BRACKENRIDGE. PENNSYL-AND SALVATORE RANIERI, REIGARD VANIA.

RAILWAY-RAIL BRACE.

Application filed April 18, 1922. Serial No. 554,646.

sylvania, have invented certain new and use-

10 way rail brace and seeks, as one of its principal objects, to provide a device which will render the use of unsatisfactory tie rods unnecessary and which will serve to rigidly brace the rails of a track against lateral

15 spreading at the rail joints.

20 the ties are less subject to decay so that the effectiveness of the device to anchor the rails will thus be correspondingly prolonged.

And the invention has as a still further object to provide a device which will be of 25 simple and rugged construction and which may be readily applied.

Other and incidental objects will appear

hereinafter.

In the drawing:

a conventional railway track.

2—2 of Figure 1, looking in the direction of 35 the arrows, and

Figure 3 is a perspective view showing the

device in detail.

In carrying the invention into effect, we 40 end to form a rail engaging hook 11 while ferent sizes without the necessity for struc-45 drawing, we have shown the device in con- bracing the rails. nection with a conventional railway track Having thus described the invention, what having rails 14 and 15 respectively. A typi- is claimed as new is: cal rail joint is illustrated in connection with The combination with a railway rail, and 100

To all whom it may concern: rails when the hook 11 is engaged over the Be it known that we, Robert A. E. Rei- base flange of the outermost of the first plates GARD and Salvatore Ranieri, citizens of the 17, the arms 12 of the device being disposed 55 United States, residing at Brackenridge, in to extend inwardly along the ties overlying 5 the county of Allegheny and State of Penn- the ties. Spikes 18 are then driven through the openings 13 of the arms 12 of the device ful Improvements in Railway-Rail Braces, into the ties for rigidly connecting the deof which the following is a specification. vice with the ties so that, as will be seen, the 60 This invention relates to an improved rail- brace will be anchored to the ties for securely holding the rail ends against outward spreading movement. In this connection, attention is directed to the fact that the device is of a length to extend to the middle 65 portions of the ties, thus locating the spikes substantially midway between the ends of The invention has as a further object to the ties. Accordingly, since, as is well known, provide a device which may be engaged with the ties of a track suffer the greatest decay a track rail at the joints therein and spiked at the ends of the ties and the least decay at 70 to the middle portions of the track ties where the middle portions of the ties, the spikes are so disposed that the ends of the ties will be in a condition necessitating replacement of the ties before disintegration of the middle portions of the ties will have progressed suf- 75 ficiently to release the spikes. The efficiency of the anchorage for the brace may thus be depended upon throughout the period of use of the ties so that the device will at all times operate to rigidly brace the rails. Further- 80 more, it is to be noted that the bar 10 as well Figure 1 is a fragmentary plan view show- as the arms 12 are resilient and when the deing our improved device in connection with vice is applied, the brace is flexed longitudinally so that the bar is tensioned against the Figure 2 is a sectional view on the line base flanges of the rails. Rattling, such as 85 might be occasioned by vibration, will accordingly be overcome. We, therefore, provide a particularly simple and efficient device for the purpose set forth and a brace adapted for a wide range of use since the 90 employ a flat metal bar 10 upturned at one brace may readily be applied to rails of difat its opposite end the bar is forked to pro-tural change in the brace. Furthermore, vide diverging straps or arms 12. Formed when desired, the device may not only be emin each of said arms is a pair of squared ployed at the rail joints of a track but may 95 openings 13. In Figures 1 and 2 of the also be used between the ends of the rails for

the rail 15, the meeting ends of the rail be- spaced ties supporting the rail, of a one-50 ing rested upon ties 16 and connected by fish piece resilient sheet metal brace including a plates 17. As shown, the bar 10 is arranged bar extending beneath the base flange of the to extend beneath the meeting ends of the rail from the inner edge thereof and up-

turned at its outer end to provide a hook en- arms for tensioning said bar upwardly gaging upwardly over said flange at its outer edge, the bar being forked at its inner end to define spaced arms of a length to extend lon-5 gitudinally of the ties over the middle portions thereof, and means securing said arms to the middle portions of the ties flexing the

against the base flange of the rail.

In testimony whereof we affix our signa- 10 tures.

ROBERT A. E. REIGARD. [L. s.] SALVATORE RANIERI. [L. s.]