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RAILROAD TIE.

F. LANDRETH.

APPLICATION FILED MAY 15, 1915.

Patented Jan. 4, 1916.

2 SHEETS-SHEET 1.



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2 SHEETS-SHEET 2.



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RAILROAD-TIE.

Specification of Letters Patent.

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To all whom it may concern: the respective ends thereof, as illustrated in Be it known that I, FRED LANDRETH, a Fig. 6 of the drawings. citizen of the United States of America, re-The rail 6 is adapted to fit or be seated siding at Arcola, in the county of Douglas upon the supporting plate 4, as clearly illus-5 and State of Illinois, have invented certain trated in Fig. 2 of the drawings. new and useful Improvements in Railroad-A plurality of yoke-like rail fasteners 7 are Ties, of which the following is a specificaused in connection with the present device tion, reference being had therein to the acand each of these yoke-like rail fasteners comcompanying drawing. prise a pair of vertically extending arms This invention relates to railroad ties and which are connected to a twisted bridge 85 10 rail fasteners and has for its object the proportion 8, as clearly illustrated in Fig. 7. duction of a simple and efficient means car-The vertically extending portions of the rail ried by a railroad tie for facilitating the fastener terminate at their upper ends in holding of a rail firmly in engagement therelaterally projecting and substantially U-15 with. shaped rail gripping pockets or jaws 9, the 70 Another object of this invention is the projaws or pockets 9 being provided with overduction of a simple and efficient means for hanging lips 10, as clearly illustrated in Fig. facilitating the gripping of a rail in a con-7 of the drawings. It should be understood venient manner upon either side of a railthat these pockets or jaws 9 are reinforced 20 road tie and holding the rail in a firmly by means of the thickened portion 11 placed 75 seated position upon the tie. or formed directly under the jaws 9 as With these and other objects in view this shown in Fig. 7. It should be understood invention consists of certain novel combinathat one of these yoke-like rail fasteners is tions, constructions, and arrangements of adapted to fit upon each side of the rail and 25 parts as will be hereinafter fully described the vertically extending portions are adapt- 80 and claimed. ed to lie snugly against the side face of the In the accompanying drawings:-Figure tie 1 as clearly shown in Fig. 4, so as to per-1 is a top plan view of a railroad tie showmit the jaws 9 to fit snugly over the base of ing the manner in which the rails are held the rail 6, as clearly indicated in the draw-30 in engagement therewith. Fig. 2 is a side ings, and firmly hold the rail upon the tie 1. 85 elevation of a railroad tie, the rails being It should be understood that these jaws 9 shown in transverse section. Fig. 3 is a fit between the side faces of the tie 1 and the section taken on line 3-3 of Fig. 2. Fig. 4 inner edges of the projecting ears or lateris an end elevation of a railroad tie, showing ally extending ends 5 of the rail supporting 35 the manner in which the tie fasteners enplate 4, as clearly shown in Fig. 1 of the 90 gage the rail. Fig. 5 is a section taken on drawings. By means of the present device line 5—5 of Fig. 4. Fig. 6 is a detailed perit will be seen that this rail supporting plate spective of one end of a railroad tie, showing will be firmly held against transverse movethe rail plate passing therethrough. Fig. 7 ment with reference to the railroad tie 1. 40 is a detailed perspective of one of the rail From the foregoing description and by 95 fastening members. Fig. 8 is a detailed percarefully considering Fig. 5, it will be seen spective of one of the spacing members of that these rail fasteners are used in pairs, the rail engaging members. Fig. 9 is a dethe pairs of fasteners being firmly secured tailed perspective of one of the nuts used in and held together by means of the spacing 45 connection with the present invention. bolt member 12 and the clamping bolt mem- 190 Referring to the accompanying drawings ber 13. The transversely extending bridge by numerals it will be seen that 1 designates portion 8 is adapted to fit snugly within the railroad tie which is provided upon the the notches 2 formed upon the under face bottom face thereof with a plurality of of the railroad tie and in this manner be 50 notches 2, as clearly illustrated in Fig. 6 of protected and firmly held in proper posi- 105 the drawings. The railroad tie 1 is provided tion against spreading. The spacing bolt upon the top face thereof with pockets 3, member 12 carries a sleeve 14 which is prowhich pockets receive the rail supporting vided with a cone-shaped end 15 at each plate 4. This rail supporting plate 4 is proend thereof, as clearly shown in Fig. 8. The 55 vided with laterally extending ears 5 upon bolt 12 is provided at one end with a cone- 110

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shaped head 16 and a cone-shaped nut 17 is threaded upon the opposite end of the bolt 12 as shown in Fig. 5.

The clamping bolt 13 passes transversely 5 through the vertical portions of the yoke members 7 by extending through the apertures 18 and by tightening the nut 19 upon the bolt member 13, it will be seen that the upper ends of the rail fastener will be 10 firmly drawn together and tightly held around the face of the rail 6 as is clearly shown in Fig. 5. It will be seen that the spacing member 14 will constitute a pivoted support and 15 spacing member for the respective clamping or rail fastening member.

ing a plurality of rail fasteners, each rail fastener comprising a pair of vertically extending arms, each vertically extending arm provided with a pocket upon the upper end 35 thereof, spacing members between the respective vertically extending arms of the opposite yoke-shaped members, and constituting a fulcrum therefor, and means passing through the upper ends of said arms for 40 drawing the upper ends of said arms toward each other.

3. A device of the class described comprising a plurality of rail fasteners constituting yoke-shaped body portions, each 45 yoke-shaped body portion provided with a plurality of vertically extending ends, rail engaging means formed upon the ends of said yoke-shaped body portions, a spacing bolt passing through the opposite arms of 50 the opposite fasteners, a sleeve carried by said spacing bolt and provided with tapering ends, said tapering ends constituting a fulcrum for said vertically extending arms, a binding bolt passing through the upper 55 ends of the oppositely disposed arms of the opposite rail fasteners for drawing said arms toward each other near the upper ends thereof. In testimony whereof I hereunto affix my 60 signature. FRED LANDRETH.

What I claim is:--

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1. A rail fastener of the class described comprising a plurality of yoke-shaped 20 bodies, each yoke-shaped body provided with vertically extending arms, each arm provided with a substantially U-shaped pocket extending at right angles to said arm and adapted to fit over the face of a rail and 25 firmly support the same, a spacing member spaced between the adjacent vertically extending arms of said rail fasteners, and means for drawing said vertically extending arms in firm engagement with the rail 30 adapted to be supported thereby.

2. A device of the class described compris-

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Washington, D. C."

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