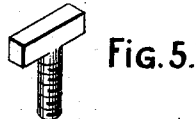
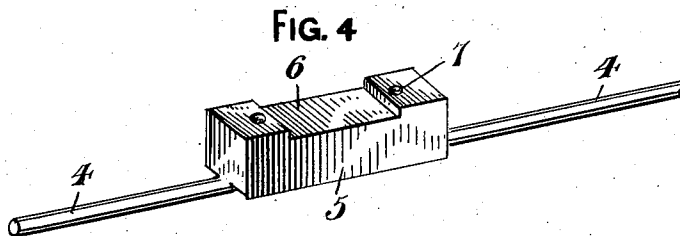
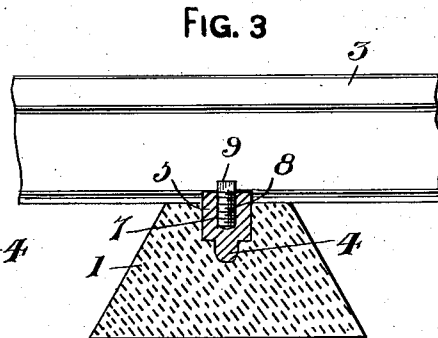
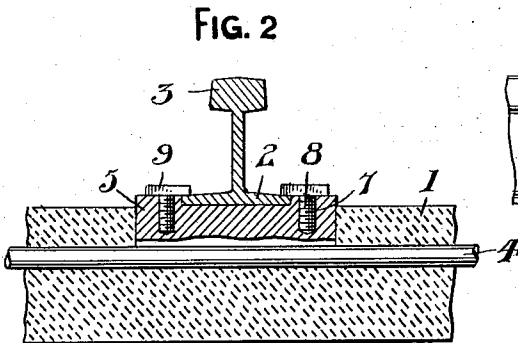
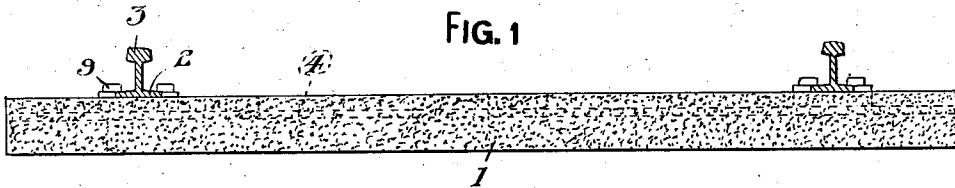


J. PALLAS, JR.
RAILWAY TIE.
APPLICATION FILED JAN. 9, 1912.

1,028,597.

Patented June 4, 1912.



WITNESSES

J. P. Pallas, Jr.
Samuel Payne

INVENTOR

J. Pallas, Jr.

BY

H. C. Everett

ATTORNEYS

UNITED STATES PATENT OFFICE.

JOSEPH PALLAS, JR., OF THURSTON, NEBRASKA.

RAILWAY-TIE.

1,028,597.

Specification of Letters Patent.

Patented June 4, 1912.

Application filed January 9, 1912. Serial No. 670,222.

To all whom it may concern:

Be it known that I, JOSEPH PALLAS, JR., a citizen of the United States of America, residing at Thurston, in the county of Thurston and State of Nebraska, have invented certain new and useful Improvements in Railway-Ties, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to ties, and the objects of my invention are to use concrete in lieu of wood and form the tie of such shape that it can be easily tamped in a roadbed.

15 Other objects of my invention are to furnish a concrete tie with fasteners that will preserve the alinement of rails upon the tie, and arrange the fasteners whereby the tie will be reinforced.

20 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.

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

30 Figure 1 is a side elevation of a tie in accordance with this invention, Fig. 2 is an enlarged longitudinal sectional view showing the fasteners of one of the rails in section, Fig. 3 is a cross sectional view of the tie, and Fig. 4 is a perspective view of a detached fastener. Fig. 5 is a detached detail perspective view of one of the fasteners.

35 A tie in accordance with this invention comprises a concrete body 1 which in cross section corresponds to a truncated pyramid, said body having a flat top for supporting the base flanges 2 of rails 3 arranged adjacent to the ends of the concrete body.

40 Embedded within the concrete body 1, approximately centrally thereof, is a longitudinal rod 4 extending from one end of the body to the opposite end, said longitudinal rod reinforcing the concrete body and serving another purpose that will hereinafter appear. Formed integral with the rod 4,

adjacent to the ends thereof, are chairs 5 in the form of rectangular blocks, said chairs having the upper surfaces thereof cut away to provide seats 6 for the base flanges 2 of the rails 3. The upper surfaces of the chairs 5 are exposed at the top of the concrete body and the ends of these chairs are provided with sockets 7 having the walls thereof screw threaded.

55 Detachably mounted in the sockets 7 are screws 8 having heads 9 and these heads are adapted to extend over on to the base flanges 2 of the rails 3 to prevent vertical and lateral displacement of said rails. The heads 9 of the screws 8 are elongated in form as shown in Fig. 5, so that they can be readily swung out of engagement with the base flanges 2 of the rails 3 when it is desired to renew said rails.

60 Since the chairs 5 are formed integral with the longitudinal rod 4, and said rod is embedded in the concrete body 1, it is impossible for the chairs 5 to spread relatively to each other, consequently the gage of a track will be maintained and with the screws 8 in the chairs 5, it is practically impossible for the rails to become vertically displaced.

What I claim is:—

65 In a tie and rail fastener, the combination with rails, of a concrete body, a longitudinal rod embedded in said body and extending from one end of said body to the opposite end thereof, chairs formed integral with said rod and having the upper surfaces thereof exposed above the upper surface of said concrete body to support the base flanges of said rails, screws mounted in the ends of said chairs, and heads carried by said screws and extending on to the base flanges of said rails.

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

JOSEPH PALLAS, JR.

Witnesses:

PAUL RIEDLER,
M. A. VARGO.