

A. KOZACZKA.
TIE AND RAIL FASTENER.
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1,030,896.

Patented July 2, 1912.

FIG. 1

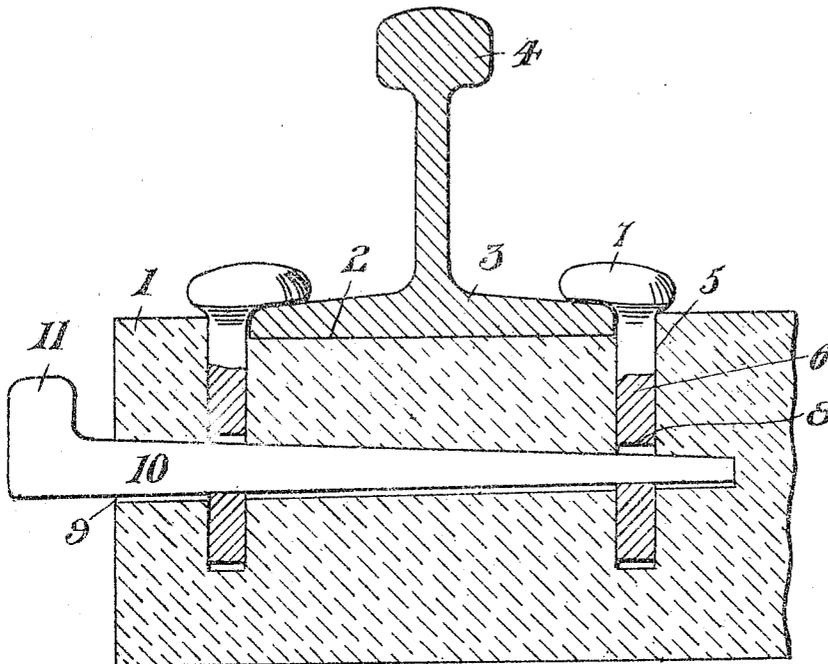
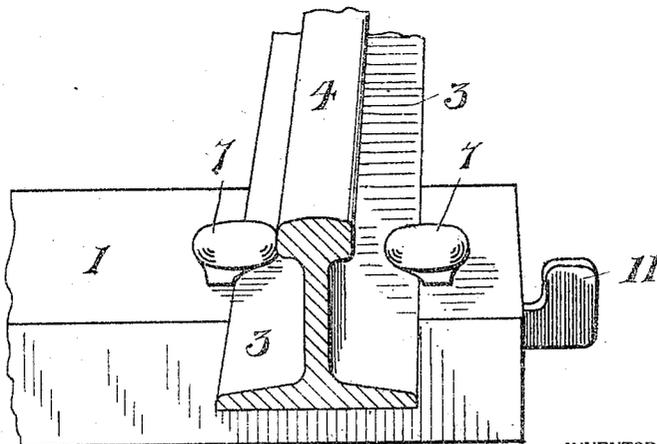


FIG. 2



WITNESSES

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TIE AND RAIL-FASTENER.

1,030,896.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ANTONI KOZACZKA, a subject of the Emperor of Austria-Hungary, residing at Oil City, in the county of Venango and State of Pennsylvania, have invented certain new and useful Improvements in Ties and Rail-Fasteners, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to ties and rail fasteners, and the objects of my invention are to provide a concrete tie with novel rail fasteners for positively retaining rails upon the tie, and to provide a rail fastener that can be repeatedly adjusted to compensate for wear.

Further objects of my invention are to provide a strong and durable concrete tie that can be used as a substitute for wooden ties, and to accomplish the above results by a mechanical construction that is inexpensive to manufacture and easy to install in the roadbed of a railway.

I attain the above objects by a mechanical construction that will be hereinafter specifically described and then claimed.

Reference will now be had to the drawing wherein:—

Figure 1 is a longitudinal sectional view of a portion of the tie in accordance with this invention, and Fig. 2 is a perspective view of the same.

A tie in accordance with this invention comprises a concrete body 1 the same dimensions as an ordinary wooden tie. The top of the body, adjacent to the ends thereof, is provided with depressed seats 2 for the base flanges 3 of rails 4. The concrete body, 1 at the edges of each seat 2 and intermediate the side walls thereof, is provided with vertical recesses 5 for spikes 6 that have heads 7 overhanging and engaging the base flanges 3 of the rails 4. The spikes 6 are rectangular in cross-section and contiguous to the lower ends thereof are

openings 8. Each end of the concrete body 1 is provided with a longitudinal tapering opening 9 that intersects the recesses 5. Each opening accommodates a tapering key 10 having a head 11. The key 10, when driven in the opening 9 passes through the openings 8 and the wedging action of the key 10 draws the spikes 6 into the recesses 5 and clamps the spike heads 7 upon the base flanges 3 of the rail 4. The head 11 of the key 10 permits of a crow-bar or other instrument being inserted between the end of the tie and said head for withdrawing the key.

What I claim is—

A tie and rail fastener comprising an oblong body having the top thereof in proximity to each end provided with a depressed seat for the reception of the base of a rail, said body further provided with vertically disposed recesses opening at the sides of each rail seat, spikes mounted in said recesses and having the heads thereof capable of extending over and engaging the base of a rail when mounted in said seat, said spikes provided with openings, said body having each of its ends formed with a longitudinally extending tapering opening, each of said openings intersecting the recesses associating with the seat, a longitudinally extending tapering key driven in each of said longitudinal openings and extending through the openings of a plurality of spikes for drawing the spikes into said vertical recesses whereby the heads of the spikes will be brought into clamping engagement with the base of the rail, and a right angularly disposed head carried by the outer end of said key.

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

ANTONI KOZACZKA.

Witnesses:

ADAM SPYTER,

WOJCIEK KULINSKI.