G. PETECSOLA.

SPIKE.

APPLICATION FILED FEB. 7, 1910.

960,694. Patented June 7, 1910.

Fig. 1.

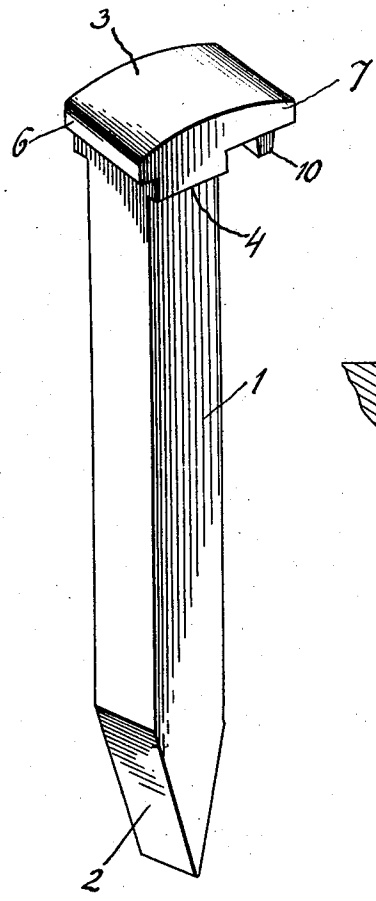
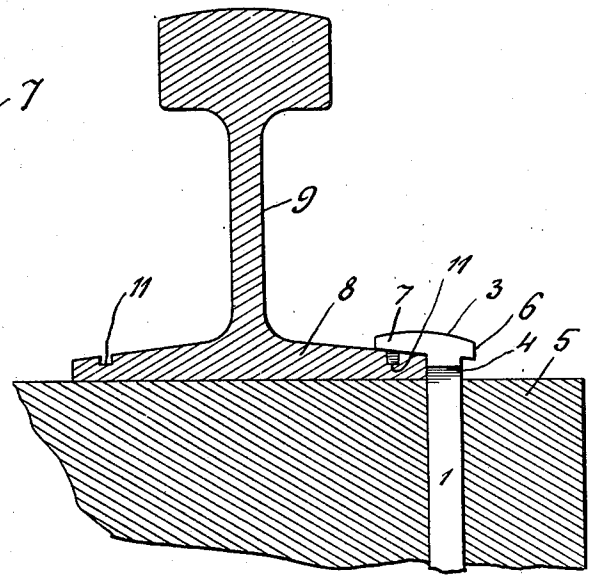


Fig. 2.



Witnesses:
A. H. Rabsag,
R. N. Butler

Inventor:
George PETECSOLA,
by: A. C. Evarts Co.
attorneys.

UNITED STATES PATENT OFFICE.

GEORGE PETECSOLA, OF OAKVIEW, COLORADO.

SPIKE.

960,694. Specification of Letters Patent. Patented June 7, 1910.

Application filed February 7, 1910. Serial No. 542,518.

To all whom it may concern:

Be it known that I, GEORGE PETECSOLA, a subject of the King of Hungary, residing at Oakview, in the State of Colorado, have invented certain new and useful Improvements in Spikes, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to spikes, and the invention aims to provide a spike with means as will be hereinafter set forth for gripping and holding the base flange of a rail in position upon a tie, whereby the rail cannot become accidentally displaced by expansion or contraction or by the action of rolling stock passing over the same.

Furthermore, the invention aims to provide a spike of simple construction that can be easily placed in position and withdrawn.

With this understanding of the aim of my invention, reference will now be had to the drawing forming a part of this specification, wherein:—

Figure 1 is a perspective view of a spike constructed in accordance with my invention, and Fig. 2 is a side elevation of the same, partly broken away, illustrating the spike mounted in a tie to retain a rail thereon.

In the accompanying drawing the reference numeral 1 denotes a shank rectangular in cross section and having the lower end thereof pointed by tapering or providing opposite sides of the shank with beveled surfaces 2, thus forming a point similar to the present type of spike. The upper end of the shank 1 is enlarged to form a head 3 and the formation of said head provides overhanging shoulders or ledges corresponding in width to said shank. The shoulders or ledges are adapted to limit the movement of the spike into a tie 5, besides providing gripping surfaces for a suitable instrument, as a crowbar, when the spike is not completely driven into the tie and when it is desired to withdraw the same from the tie.

The head 3 upon the outer side of the spike projects sufficiently to form an outwardly extending flange 6, and this flange is adapted to facilitate the withdrawal of the spike, when the shoulders 4 engage the upper surface of the tie. The head 3 is also formed with an inwardly projecting flange 7 adapted to overhang the base flange 8 of a rail 9, said flange corresponding in width to the head 3 and having a depending rib 10 corresponding in width to the flange 7 and the head 3. The rib 10 is of a depth when combined with the depth of the flange 7, to equal the depth of the head 3, from the shoulder 4 to the upper edge or top surface of the head 3. This depending rib 10 is adapted to enter a longitudinal groove 11 provided therefor in the upper surfaces of the base flanges 8 of the rail 9, said groove being located adjacent to the outer edges of the base flanges and adapted to extend from one end of said rail to the opposite end thereof, whereby the rail can be easily secured in position by my improved spikes, irrespective of the location of the ties 5 relatively to said rail.

With the base flanges 8 of the rail secured upon a tie by my improved spikes, lateral as well as vertical displacement of the rail is prevented by the base flanges contacting with the shank of the spike, the flanges 7 overhanging the base flanges, and the ribs 10 of the spikes engaging in the grooves 11 provided therefor.

Having now described my invention what I claim as new, is:—

The combination with a rail having the base flanges thereof provided with longitudinal grooves adjacent to the outer edges of said flanges, of a spike, each spike comprising a shank having the lower end thereof pointed, a head carried by the upper end of said shank and providing shoulders at the sides of said shank adapted to limit the inward movement of the spike relatively to a tie, an outwardly projecting flange carried by said head and adapted to provide a gripping surface for an instrument adapted to withdraw said spike, an inwardly projecting flange carried by the head of said spike and adapted to overhang the base flange of said rail, and a depending rib carried by said flange and adapted to engage in the groove of the base flange of said rail, said rib corresponding in width to said flange and of a depth when combined with the depth of said flange to correspond to the depth of said head, substantially as described.

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

GEORGE PETECSOLA.

Witnesses:

JOZSEPH BARTESKHO,

L. F. MARTIN.