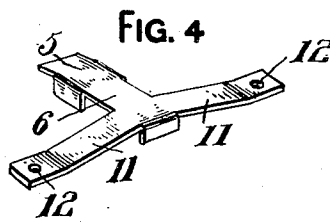
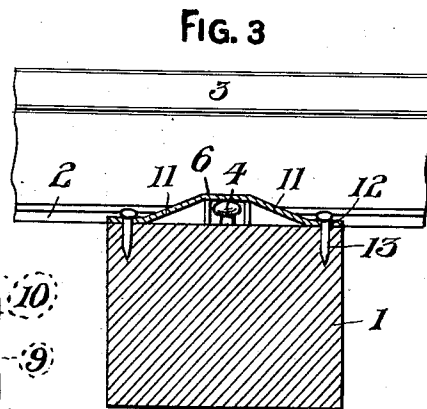
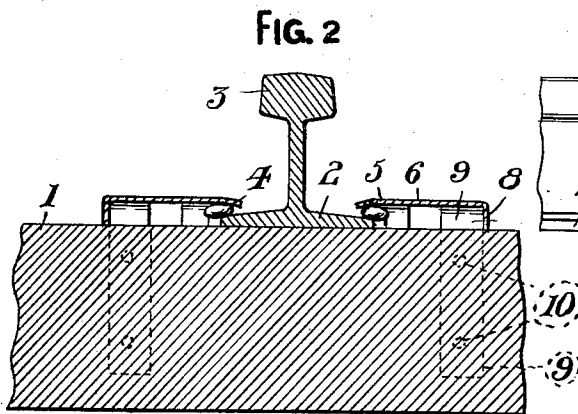
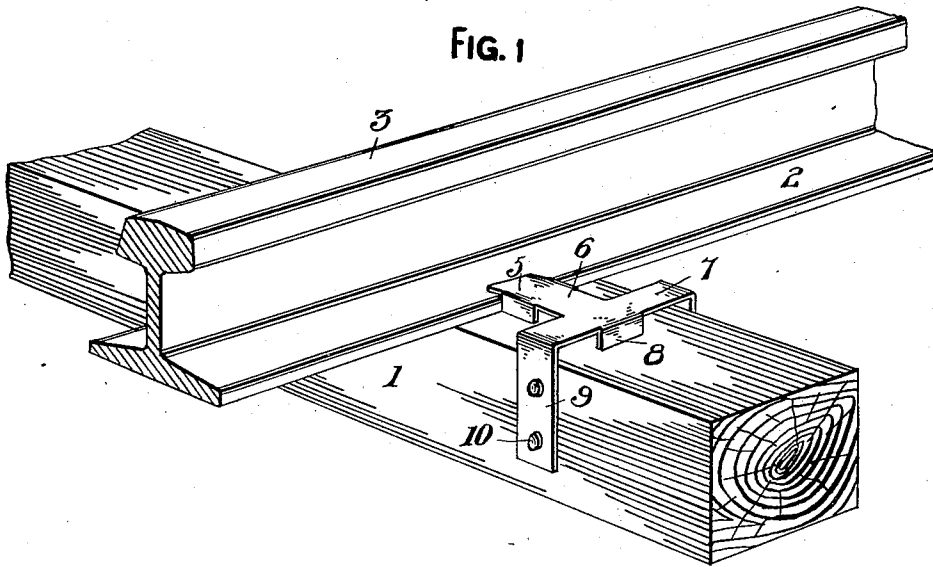


G. H. ELLIOTT.  
SPIKE PROTECTING DEVICE.  
APPLICATION FILED OCT. 27, 1911.

1,017,395.

Patented Feb. 13, 1912.



WITNESSES

*J. B. Appleman,*  
*Ralph C. Evert.*

INVENTOR

*G. H. Elliott*

BY

*McEvert & Co.*

ATTORNEYS

# UNITED STATES PATENT OFFICE.

GEORGE H. ELLIOTT, OF JOHNSTOWN, PENNSYLVANIA.

## SPIKE-PROTECTING DEVICE.

1,017,395.

Specification of Letters Patent.

Patented Feb. 13, 1912.

Application filed October 27, 1911. Serial No. 657,109.

*To all whom it may concern:*

Be it known that I, GEORGE H. ELLIOTT, a citizen of the United States of America, residing at Johnstown, in the county of Cambria and State of Pennsylvania, have invented certain new and useful Improvements in Spike-Protecting Devices, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a spike-protecting device, and the primary object of my invention is to provide a tie with positive and reliable means, in a manner as will be hereinafter set forth, for preventing accidental displacement of spikes in a tie, thereby preventing the rail or structure held by the spikes from becoming displaced.

A further object of this invention is to provide a device of the above type that is simple, durable, easy to install and highly efficient for the purposes for which it is intended.

With the above and other objects in view the invention resides in the novel construction to be hereinafter specifically described and then claimed.

Reference will now be had to the drawing, wherein there are illustrated the preferred embodiments of the invention, but it is to be understood that the structural elements are susceptible to such variations as fall within the scope of the appended claim.

In the drawing:—Figure 1 is a perspective view of the preferred form of spike protecting device. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a cross sectional view of a modified form of device, and Fig. 4 is a perspective view of a detached device.

The reference numeral 1 denotes a tie or sleeper supporting the base flanges 2 of a rail 3. The base flanges 2 are secured to the upper surface of the tie 1 by spikes 4 of the ordinary and well known type. Extending

over the heads of the spikes 4 are channel housings 5 carried by longitudinal extensions 6 of straps 7. The straps 7 have the outer edges thereof provided with depending lugs 8 to assist in supporting the straps upon the tie and to correctly space said straps from the upper surface of the tie. The straps 7 are provided with depending arms 9 engaging the sides of the tie and these arms are connected to the tie by small spikes 10 or other fastening means, as tie rods or bolts.

In Figs. 3 and 4 of the drawing the arms 9 are eliminated and the ends of the straps bent downwardly, as at 11, apertured, as at 12 and secured to the upper surface of the tie by small spikes 13 or other fastening means. In other respects the device is similar to the preferred form of construction.

Either form of protecting device prevents vertical or lateral displacement of the spikes 4 and even though should said spikes become loose in the tie, it is impossible for the spikes to work out of the tie, consequently the base flanges 2 of a rail will be firmly held.

The device in its entirety is made of strong and durable metal and of various sizes.

What I claim is:—

A spike protecting device comprising a strap adapted to have the ends thereof secured to a tie, a right angular extension carried by said strap and having the end thereof provided with a channel housing adapted to engage the head of a spike driven in said tie, and a supporting lug carried by said strap at the opposite edge from the extension of said strap.

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

GEORGE H. ELLIOTT.

Witnesses:

MAX H. SROLOVITZ,  
CHRISTINA T. HOOD.