T. H. KRUSE.

RAILROAD TIE.

APPLICATION FILED AUG. 10, 1917.

1,244,616. Patented Oct. 30, 1917.

Fig. 1.

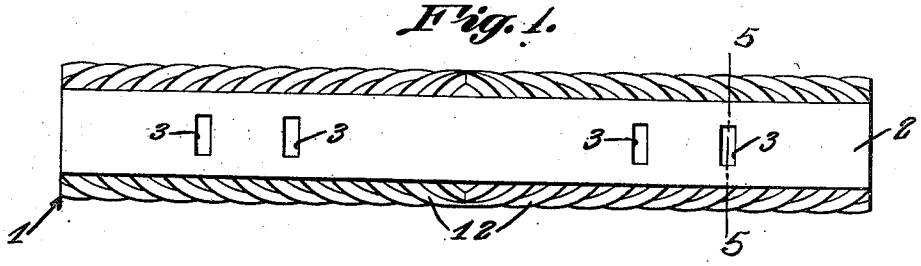


Fig. 2.

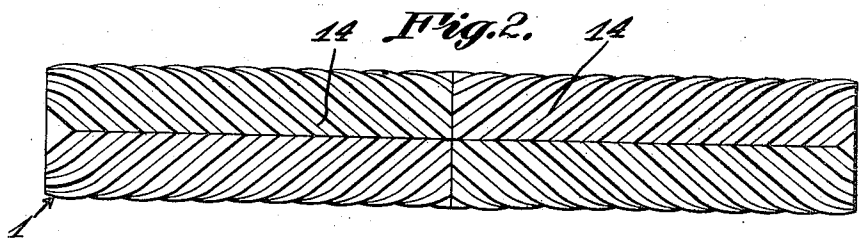


Fig. 3.

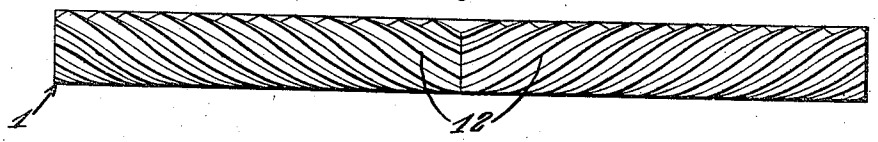
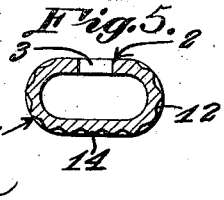


Fig. 4.



Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

THEODORE H. KRUSE, OF ARVADA, COLORADO, ASSIGNOR TO THE SPIKELESS & BOLTLESS RAILROAD TIE COMPANY, OF DENVER, COLORADO.

RAILROAD-TIE.

1,244,616. Specification of Letters Patent. **Patented Oct. 30, 1917.**

Application filed August 10, 1917. Serial No. 185,565.

To all whom it may concern:

Be it known that I, THEODORE H. KRUSE, a citizen of the United States, residing at Arvada, in the county of Jefferson and State of Colorado, have invented a new and useful Railroad-Tie, of which the following is a specification.

It is the object of this invention to provide a novel form of railroad tie, having ribs so located as to receive, engage and hold the ballast, thereby preventing the tie from shoving about on the road bed, or moving endwise.

In the drawings:—

Figure 1 shows in top plan, a railroad tie constructed in accordance with the present invention;

Fig. 2 is a bottom plan of the tie;

Fig. 3 is a side elevation of the tie;

Fig. 4 is a longitudinal section of the tie;

Fig. 5 is a cross section on the line 5—5 of Fig. 1.

In carrying out the invention there is provided a hollow metal tie 1 having a flat upper face 2 provided with openings 3 adapted to receive rail holding means of any desired kind. The tie 1 is provided upon its bottom and upon its edges with spiral ribs 12 which converge, from the opposite sides of the tie, on the bottom of the tie, to define groups of V-shaped elements 14, extended inwardly from the ends of the tie, the apices of the V-shaped elements of the respective groups pointing toward each other, and the apices of all the V-shaped elements being located adjacent the longitudinal center of the tie.

Owing to the particular way in which the ribs 12 are formed, the tie will be held on the ballast against movement, and particularly against endwise movement.

Having thus described the invention, what is claimed is:

A railroad tie provided upon its bottom and upon its edges with spiral ribs which converge, from the opposite sides of the tie, on the bottom of the tie, to define groups of V-shaped elements extended inwardly from the ends of the tie, the apices of the ribs of each group pointing toward the apices of the ribs of the other group.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

THEODORE H. KRUSE.

Witnesses:
C. C. COLE,
FRANK P. WESTALL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."