H. S. WILSON.

CROSS-TIES FOR RAILWAYS.

No. 188,087. Patented March 6, 1877.

Fig. 1.

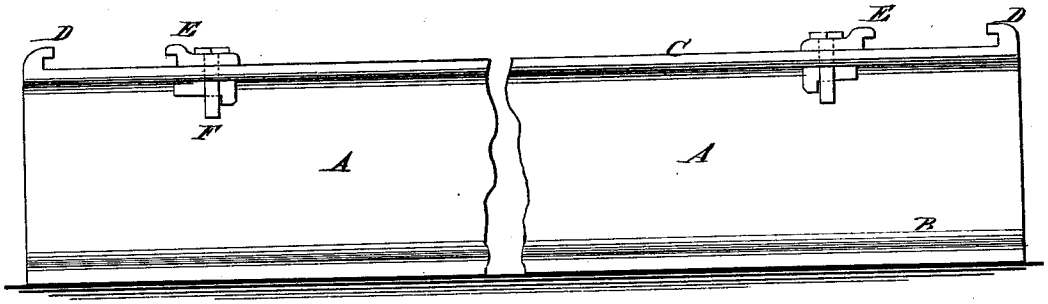
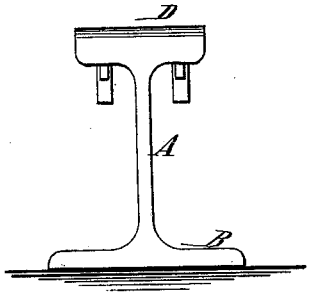


Fig. 2.



WITNESSES:

H. Rydquist

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BY Munn & Co.

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UNITED STATES PATENT OFFICE

HENRY S. WILSON, OF FERNANDINA, FLORIDA.

IMPROVEMENT IN CROSS-TIES FOR RAILWAYS.

Specification forming part of Letters Patent No. **188,087**, dated March 6, 1877; application filed December 30, 1876.

To all whom it may concern:

Be it known that I, HENRY S. WILSON, of Fernandina, in the county of Nassau and State of Florida, have invented a new and Improved Cross-Tie, of which the following is a specification:

Figure 1 is a side elevation. Fig. 2 is an end elevation.

Similar letters of reference indicate corresponding parts.

My improvement relates to cross-ties for railways; and it consists of an iron beam having wide flanges formed on its upper and lower sides, and provided with fixed clips and removable clips for clamping the rail-flange.

In the drawing, A is an iron beam, having upon its lower side the wide flange B, and having the flange C upon its upper side, to which clips D, that clamp the outer edges of the rail-flange, are permanently attached. E E are removable clips, that clamp the inner edges of the rail-flange, and are held firmly in place by bolts F. The wide flange B forms ample bearing-surface for the beam, and the space between the flanges B C receives the ballast that holds the cross-tie in its place.

The bolts F, that pass through the clips E and flange C, may be provided with a mortise and key, as shown in the drawing, for drawing it to its place; or it may be an ordinary threaded bolt.

The advantages claimed for my improvement are, that the cross-tie is practically indestructible, and that a track laid upon ties of this description is more durable and less liable to accidents than those laid upon ordinary wooden ties. The usual chairs and spikes are dispensed with, the rails being securely held by the clips.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A metallic railroad cross-tie, having the web A with bottom flange B, and slotted top flange C, having the end clips D, as shown and described.

HENRY S. WILSON.

Witnesses:
WM. F. WOOD,
CHAS. W. LEWIS.