

(No Model.)

C. SAILLIEZ.
RAILROAD TIE OR SLEEPER.

No. 345,733.

Patented July 20, 1886.

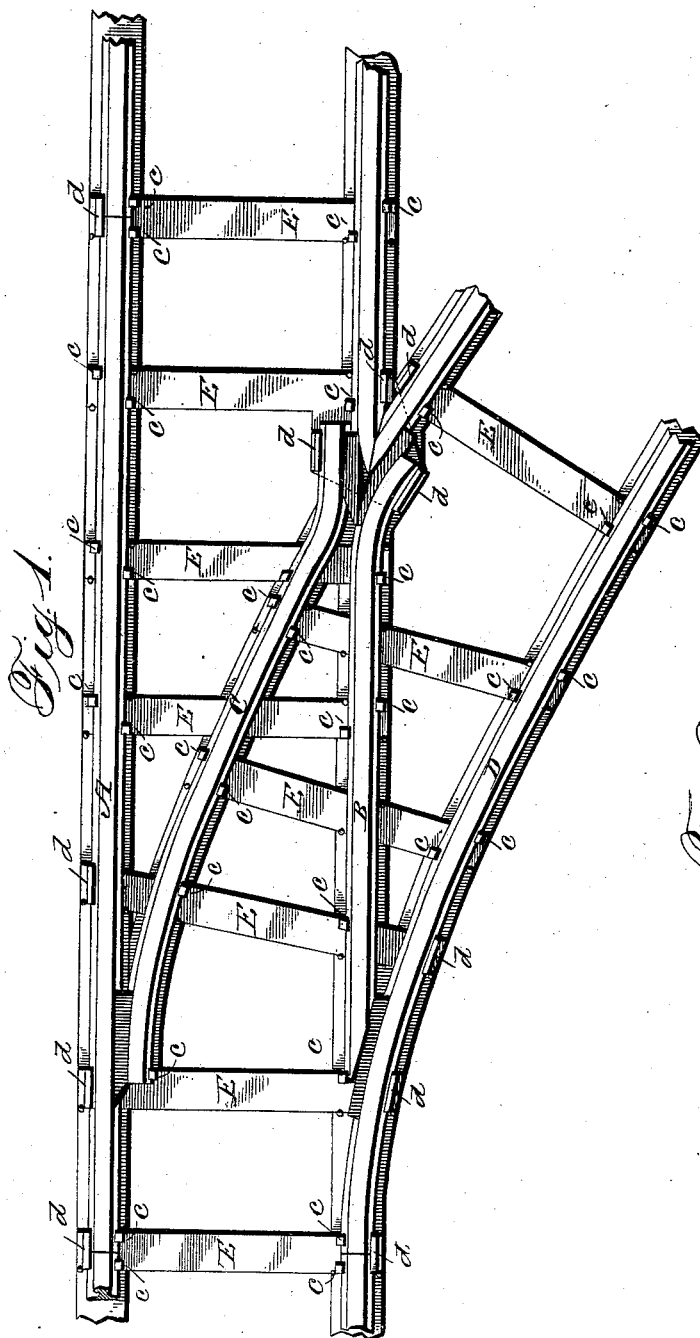
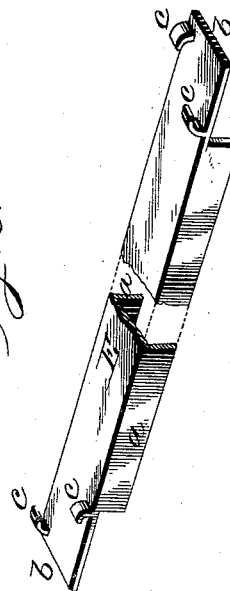


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

CLOTAIRE SAILLIEZ, OF WHAT CHEER, IOWA.

RAILROAD TIE OR SLEEPER.

SPECIFICATION forming part of Letters Patent No. 345,733, dated July 20, 1886.

Application filed April 12, 1886. Serial No. 198,542. (No model.)

To all whom it may concern:

Be it known that I, CLOTAIRE SAILLIEZ, a citizen of the United States, residing at What Cheer, in the county of Keokuk and State of Iowa, have invented certain new and useful Improvements in Railroad Ties or Sleepers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a top plan view of a main line and switch with my improved ties or sleepers connected thereto; and Fig. 2, a detail view, in perspective, of one of the ties or sleepers.

My present invention has for its object to provide a metal tie or sleeper that can be quickly and conveniently applied to the rails of a main track or switch used in mines and tramways, without the necessity of employing spikes or like fastenings usually resorted to to fasten the rails in place; and it consists in the peculiar construction of the tie or sleeper, substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, A B represent the rails of the main track, and C D those of the switch, of the usual construction.

The ties or sleepers E, I form of metal, preferably of wrought metal, with downwardly-projecting flanges *a*, extending longitudinally therewith, as shown in Fig. 2, leaving the ends of the tie or sleeper extending beyond the ends of the flange, as at *b*, which ends of said tie or sleeper are provided in any suitable manner with locking-flanges *c*. These flanges are bent over and down upon the base flanges of the rails, to hold them in place thereon, and the longitudinal flanges *a* support the tie or sleeper and give it strength and durability.

This tie or sleeper, as above described, is to be used on all lines of track where fish-plates are employed to make a continuous rail, no other form of tie or sleeper being necessary.

It may be found necessary, in addition to the flanges *c*, to turn the edges of the projecting ends *b* over and upon the base-flange of

the outer side of the rails, as shown at *d*, and any number of the locking-flanges *c* may be provided on each tie or sleeper to adapt it to circumstances—viz., that of securing either two, three, or four rails at a point where the switch connects with the main track, as shown in Fig. 1, the ties or sleepers, of course, being of increased length for this purpose. It is therefore not considered necessary to go into the details of construction of each individual tie or sleeper to adapt it to its various uses and manner of securing the rails thereto, as the location and position of the locking-flanges on the upper side of the tie or sleeper may be changed and their number increased or decreased at pleasure without departing from the nature and object of my invention, and the locking-flanges may be formed thereon in any convenient manner.

When these ties or sleepers are used, it is preferred to employ stringers of wood, which extend directly under the rails to hold them from sinking into the ground, and the ties or sleepers are fastened to the stringers by spikes, nails, or other suitable means. The longitudinal flanges upon the sides of the tie or sleeper hold it in place by embedding themselves in the earth.

The tie or sleeper constructed in accordance with my invention is simple, strong, and durable, and can be used to advantage where the ordinary tie or sleeper would be ineffective as a support for the rails. Besides, it can be manufactured and placed in the market at a comparatively small cost over the metal ties of the usual form.

A more rapid method of track-laying is secured by the employment of my improved tie or sleeper, the locking-flanges being quickly and expeditiously bent over and upon the base-flanges of the rails to fasten them there-to without the use of spikes or other like fastenings, and the ballasting and surfacing of the track are more readily accomplished, and no extra expense is incurred by tearing up the track to lay switches.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A metallic tie or sleeper having longitudi-

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nal and downwardly-projecting side flanges,
and locking-flanges extending above the up-
per surface of the tie or sleeper and adapted
to be bent over and upon the base-flanges of
5 the rail, and the ends of the tie or sleeper ex-
tending beyond the side flanges thereof, sub-
stantially as and for the purpose set forth.

In testimony that I claim the above I have
hereunto subscribed my name in the presence
of two witnesses.

CLOTAIRE SAILLIEZ.

Witnesses:

J. P. WALES,
H. C. ADAMS.