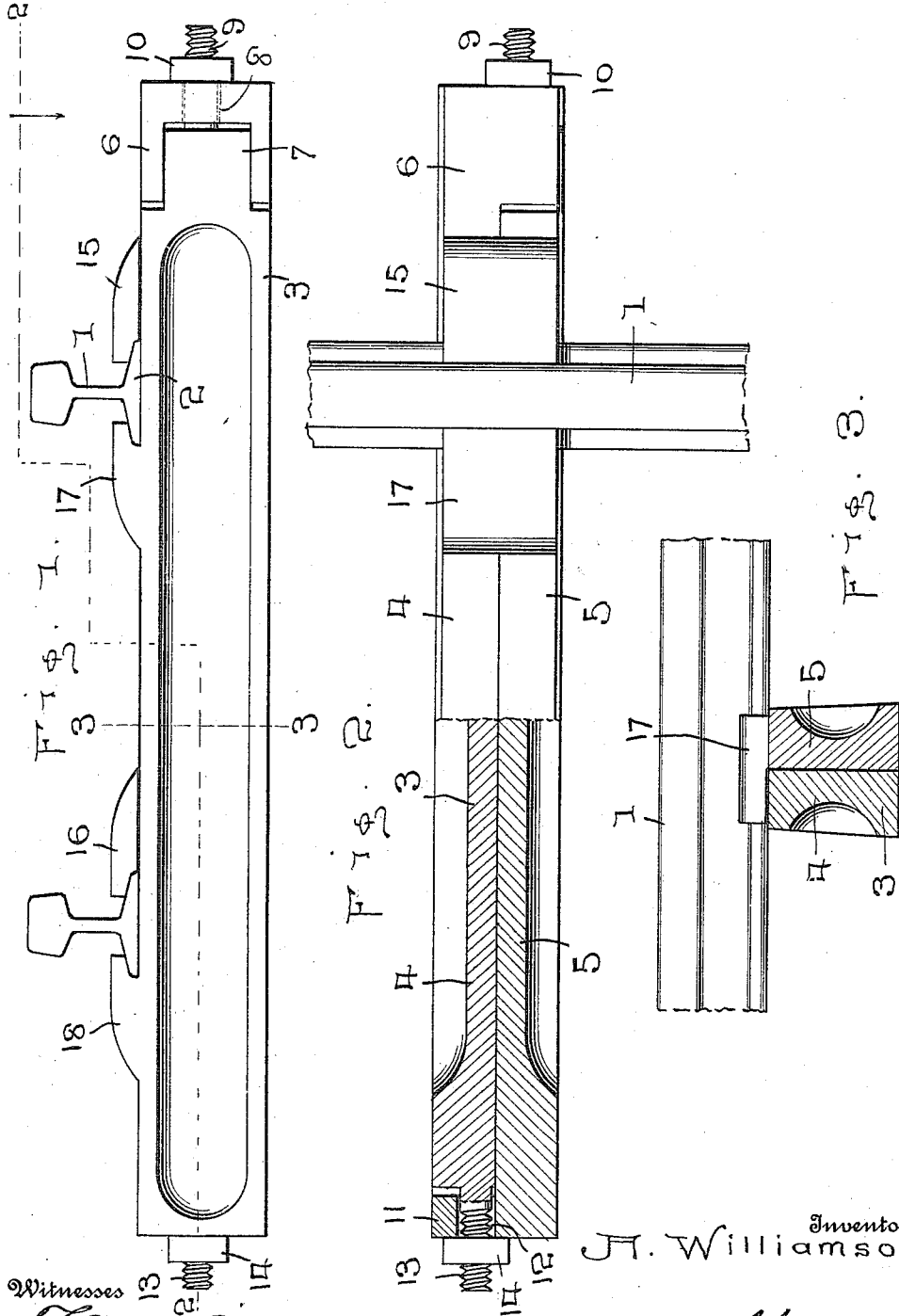


A. WILLIAMSON.
TIE FOR SUPPORTING TRACK RAILS.
APPLICATION FILED NOV. 22, 1910.

986,111.

Patented Mar. 7, 1911.



Witnesses
Thos. Riley
M. Newcomb

Inventor
A. Williamson

By W. J. Fitzgerald
Attorneys

UNITED STATES PATENT OFFICE.

ALFRED WILLIAMSON, OF CHAPMAN, ILLINOIS.

TIE FOR SUPPORTING TRACK-RAILS.

986,111.

Specification of Letters Patent.

Patented Mar. 7, 1911.

Application filed November 22, 1910. Serial No. 593,671.

To all whom it may concern:

Be it known that I, ALFRED WILLIAMSON, a citizen of the United States, residing at Chapman, in the county of Montgomery and State of Illinois, have invented certain new and useful Improvements in Ties for Supporting Track-Rails; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to new and useful improvements in ties for supporting track rails and my object is to form the tie of metal or similar substances.

A further object is to provide means integral with the tie for engaging and retaining the rails in position thereon, and,

A further object is to provide means for clamping said parts into engagement with the rails.

Other objects and advantages will be hereinafter set forth and pointed out in the specification.

In the accompanying drawings, which are made a part of this application, Figure 1 is a side elevation of one of the ties, showing the rails in position thereon. Fig. 2 is a sectional view as seen on line 2—2, Fig. 1, and, Fig. 3 is a sectional view as seen on line 3—3, Fig. 1.

Referring to the drawings, in which similar reference numerals designate corresponding parts throughout the several views, 1 indicates the track rails, which may be constructed in the usual or any preferred manner, the bases 2 of which are adapted to rest upon my improved form of tie 3. The tie 3 is formed in two sections 4 and 5, said sections when applied to use paralleling each other, one end of the section 4 being formed into a housing 6 to receive the reduced end 7 of the section 5, the end wall of the housing having an opening 8 there-through, through which extends a threaded stem 9 projecting from and preferably formed integral with the reduced end 7, a nut 10 cooperating with the stem. The opposite end of the section 5 is likewise provided with a housing 11 to receive the reduced end of the section 4, the end wall of the housing having an opening 12 through which projects the threaded stem 13, extending from the reduced end of the section 4. This stem receives a nut 14.

The rails 1 are secured to the sections of the tie by forming anchoring lugs 15 and 16 on the section 4 and 17 and 18 on the section 5, each anchoring lug being of sufficient width to extend substantially the full width of the tie.

The lugs 15 and 16 extend over and engage one edge of the bases of the rails, while the lugs 17 and 18 extend over and engage the opposite sides of the bases of the rails, and by turning the nuts onto their respective stems 9 and 13, the lugs will be securely clamped into engagement with the bases of the rails and both rails will be clamped simultaneously.

In applying the tie to use the nuts are turned to the outer ends of the stems, or entirely removed therefrom, and the sections of the tie moved longitudinally in opposite directions until the lugs have been separated a sufficient distance to admit the base of the rail, when the nuts are again turned onto their respective stems and the lugs drawn into engagement with the rails, thus securely clamping the rails into engagement with the tie. The tie may be given additional adjustment to compensate for any shrinkage of the rails or for expansion thereof and any wear that may occur may be compensated for. It will also be seen that as the lugs are formed integral with the tie sections, said rails will be securely held against spreading, and, it will likewise be seen that the ties can be quickly engaged with or disengaged from the rails and that the usual form of spikes required for securing the rails to the ties are dispensed with.

What I claim is:

1. The herein described tie, comprising a pair of sections, each section having a housing at one end to receive the end of the other section, that end of each section entering the housings having a threaded stem projecting therefrom, nuts cooperating with said stems and anchoring lugs integral with said sections, the lugs of one section being opposed to the lugs of the opposite section.

2. The herein described tie, comprising a pair of parallel sections, each section having one of its ends provided with a housing to receive the opposite end of the opposed section, the end walls of the housings having openings, stems integral with the ends of the sections entering the housings and projecting through said openings, nuts to

engage said stems and a pair of anchoring
lugs carried by each section, the lugs of one
section being opposed to the lugs of the other
section, said lugs being substantially the
5 same width as the combined width of the
two sections.

In testimony whereof I have signed my

name to this specification in the presence of
two subscribing witnesses.

ALFRED WILLIAMSON.

Witnesses:

JOHN H. EATON,
M. B. KESSINGER.

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