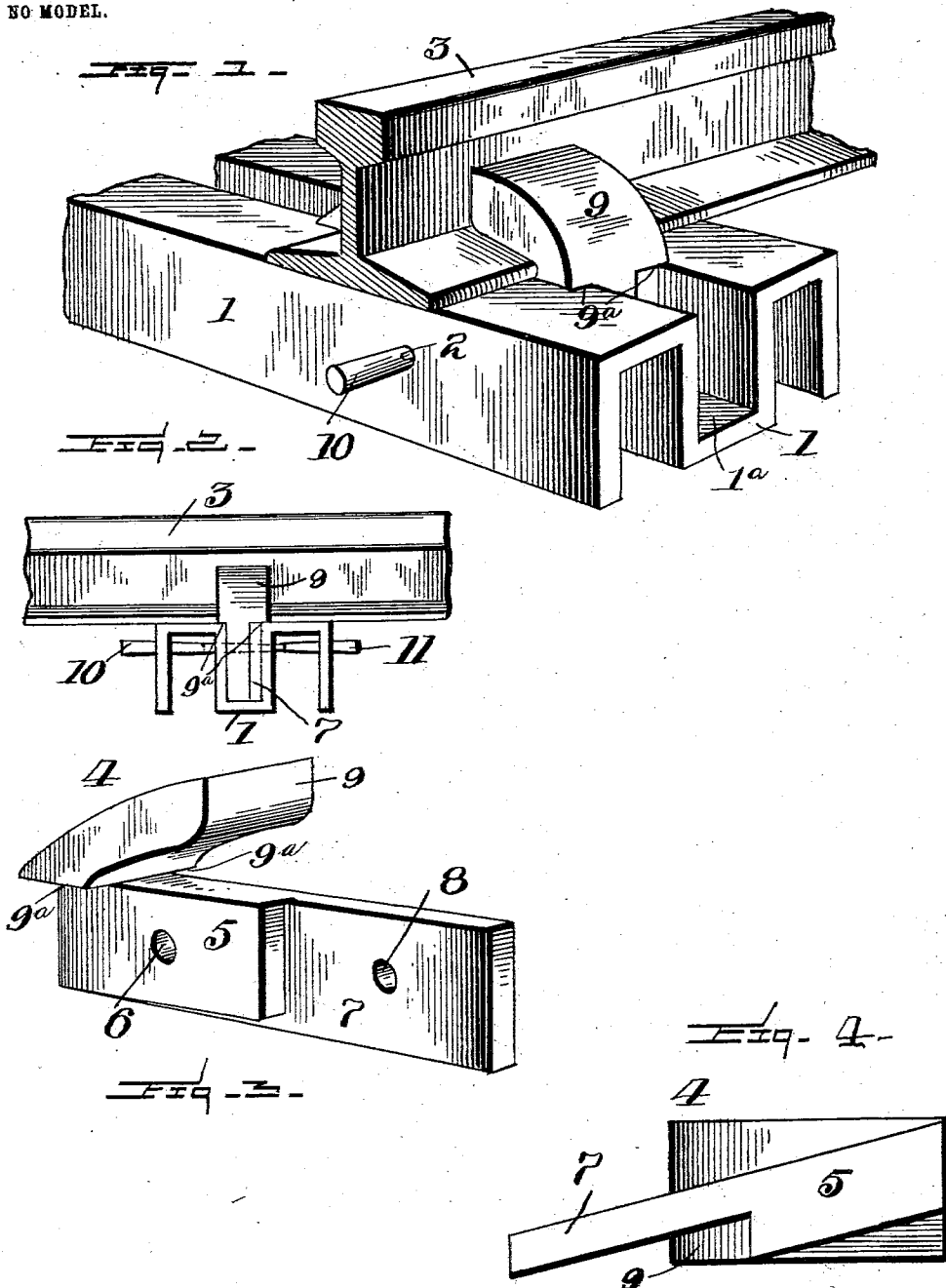


No. 739,607.

PATENTED SEPT. 22, 1903.

A. J. KLINKNER.
METALLIC TIE AND RAIL FASTENER.
APPLICATION FILED MAR. 25, 1902.

NO MODEL.



Witnesses:
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UNITED STATES PATENT OFFICE.

ANTHONY J. KLINKNER, OF CARRICK, PENNSYLVANIA.

METALLIC TIE AND RAIL-FASTENER.

SPECIFICATION forming part of Letters Patent No. 739,607, dated September 22, 1903.

Application filed March 25, 1902. Serial No. 99,882. (No model.)

To all whom it may concern:

Be it known that I, ANTHONY J. KLINKNER, a citizen of the United States of America, residing at Carrick, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Metallic Ties and Rail-Fasteners, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in steel ties and rail-fasteners, and has for its object the provision of novel means whereby the rails are securely clamped upon the ties.

A further object is to provide a construction whereby the clamp is particularly adapted for use in connection with curved rails, switches, and frogs.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate like parts throughout the several views, in which—

Figure 1 is a perspective view of my improved rail-fastener in position on the tie. Fig. 2 is an end view thereof. Fig. 3 is an enlarged perspective view of one of the clamping members forming the chair. Fig. 4 is a bottom plan view thereof.

1 represents a metallic tie, which is formed of a double channel-bar, having suitable openings 2 formed therein.

3 represents one of the rails, and 4 the rail-clamping sections or members. These clamping members or sections are both constructed alike, the same comprising base extensions 5, which are received in the central channel 1^a of the tie, said extensions having their upper edges lying flush with the upper face of the tie. Formed integral with the outer ends of the extensions 5 are the upwardly-projecting rail-engaging extensions 9 of the clamping members. These extensions are of greater

width than the base extensions 5 and are angularly disposed to the vertical sides thereof. The shoulders 9^a bear upon the upper face of the tie. The base extensions 5 project beyond the opposite sides of the base of the rail and have their inner ends reduced in thickness, as at 7. By this construction of the said clamping members the same can be arranged so as to effectually engage the rail-base on any curve. After the base extensions have been moved toward each other, so that the shoulders thereof contact, tapering securing-pins 10 and 11 are inserted through the openings 2 of the tie and the openings 6 and 8 of the base extensions of the clamping-sections.

Having thus described my invention, I claim—

The combination with a tie formed with a channel, and the rail, of a pair of oppositely-arranged clamping members, said clamping members each being provided with a base extension arranged in the channel of the tie, said base extensions having their upper edges lying flush with the upper face of the tie and having their inner ends reduced in thickness, upwardly-projecting rail-engaging sections formed integral with the outer ends of said base extensions said rail-engaging extensions projecting at an angle beyond one side of said base extensions and being of greater width than the same, and having their extended portions overlying and engaging the upper face of said tie, and pins projecting through the said tie and base extensions of the clamping members.

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

ANTHONY J. KLINKNER.

Witnesses:

JOHN NOLAND,
E. E. POTTER.