

A. P. WILLOUGHBY.
RAIL CLAMPING PLATE FASTENER.
APPLICATION FILED JAN. 6, 1912.

1,041,546.

Patented Oct. 15, 1912.

2 SHEETS—SHEET 1.

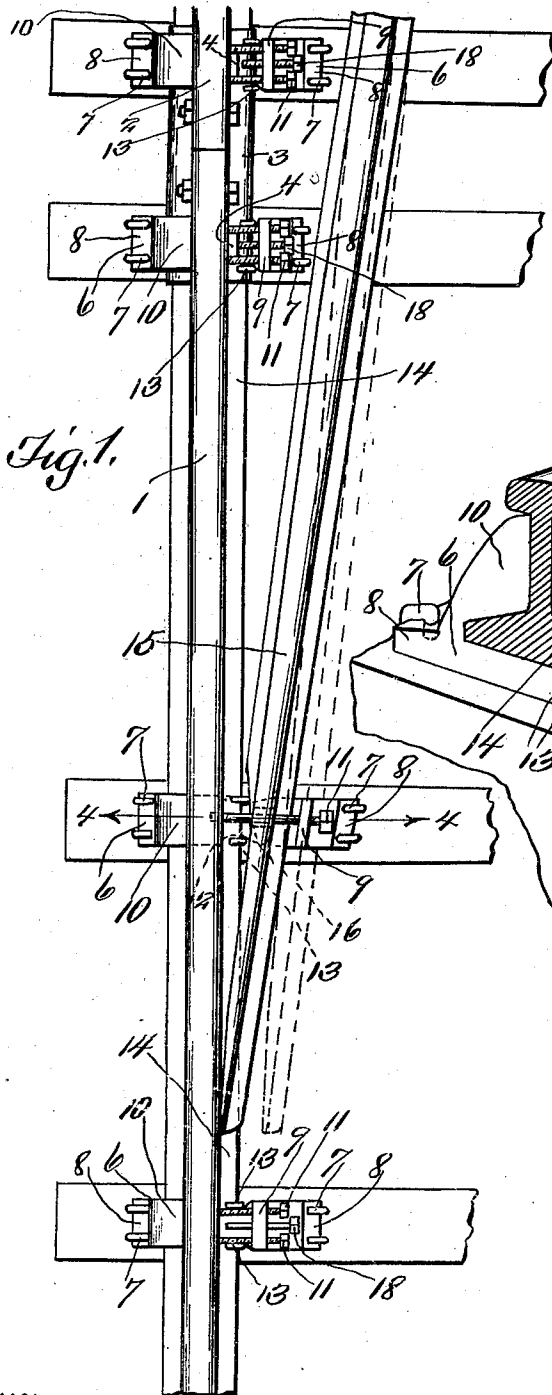


Fig. 1.

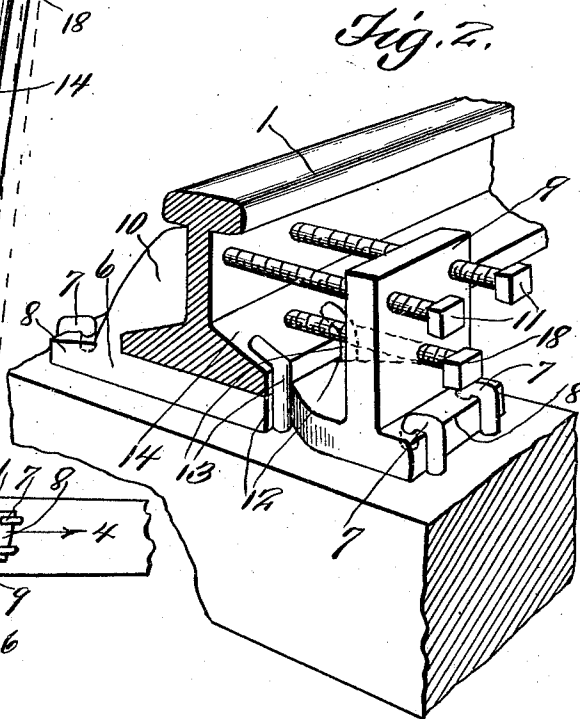


Fig. 2.

Witnesses

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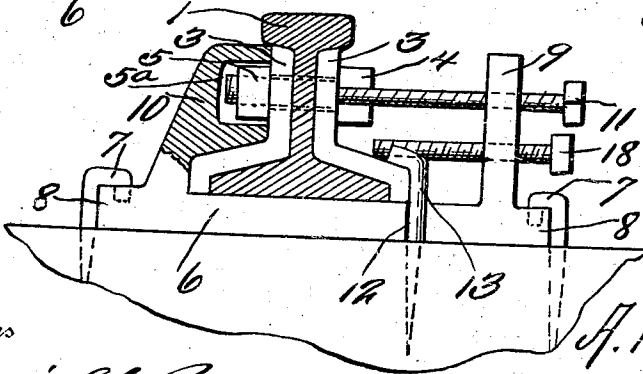
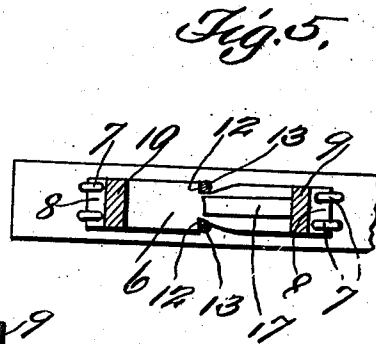
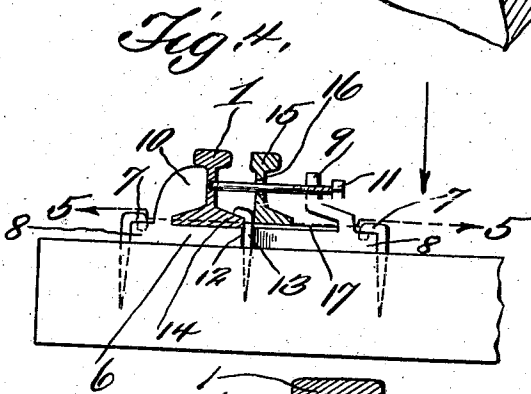
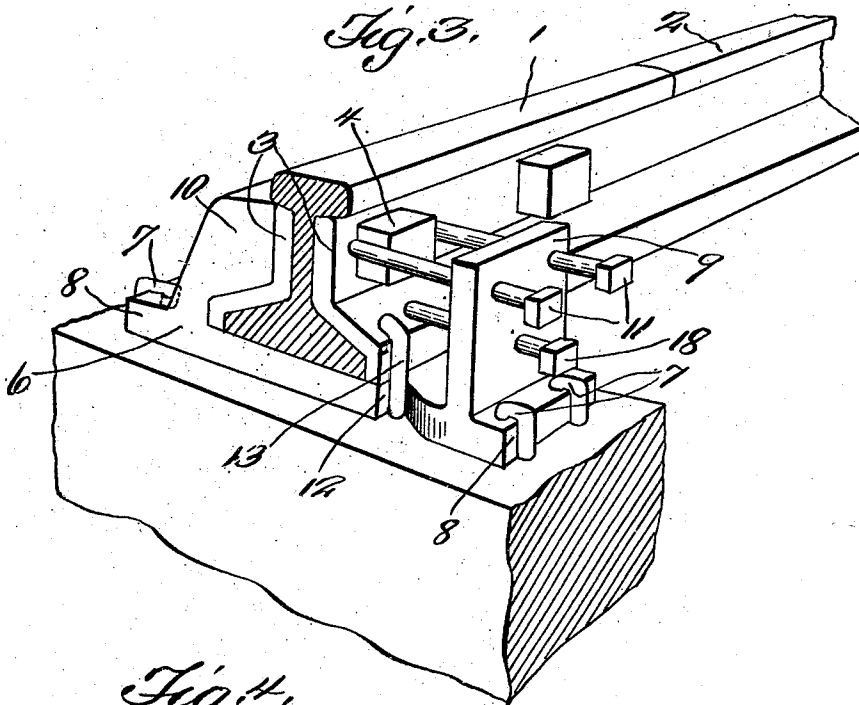
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2 SHEETS-SHEET 2.



Inventor

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UNITED STATES PATENT OFFICE.

ALFORD PERVIS WILLOUGHBY, OF OLNEY, TEXAS.

RAIL-CLAMPING PLATE-FASTENER.

1,041,546.

Specification of Letters Patent.

Patented Oct. 15, 1912.

Application filed January 6, 1912. Serial No. 669,731.

To all whom it may concern:

Be it known that I, ALFORD P. WILLOUGHBY, a citizen of the United States, residing at Olney, in the county of Young and State of Texas, have invented a new and useful Rail-Clamping Plate-Fastener; 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.

This invention relates to a new and useful rail clamping plate, adapted for fastening the rail to the tie, or for joining two rails.

The principal object of the invention is to provide a simple, efficient and practical device of this nature, whereby the rails may be held securely in position.

The invention comprises various features and combination of parts, as hereinafter set forth shown in the drawings and claimed.

In the drawings:—Figure 1 is a plan view, showing a plurality of rail clamping plates, for securely holding the rail in position. Fig. 2 is a view in perspective of one of the clamping plates. Fig. 3 is a view showing one of the plates as applied to a rail, to insure a more secure rail joint. Fig. 4 is a sectional view on line 4—4 of Fig. 1. Fig. 5 is a sectional view on line 5—5 of Fig. 4. Fig. 6 is a view in elevation showing part 10 and the rail in section.

Referring to the drawings 1 and 2 designate the usual form of rails, which are joined by the fish plates 3, through which and the rails the bolts 4 extend, there being the usual nuts 5 applied thereto. Resting upon the several ties are the rail clamping plates 6, which are secured in position by the spikes having angled ends 7. The angled ends of the spikes engage the flanges 8 of the clamping plates. The clamping plates are provided with upstanding portions 9 and 10, which are considerably spaced apart, and arranged adjacent each end of each plate. The rail is arranged in contact with each of the upstanding portions 10, and is held in such position by the bolts 11, which pene-

trate the upstanding portions 9. The bolts 11 are adjusted so as to engage the web of the rail, so as to force the same closely in contact with the upstanding portions 10. The bases of the clamping plates are provided with shoulders 12, which are engaged by the spikes 13, the angled ends of which engage the base 14 of the rail, thus holding the base of the rail in position. The bolts 11 of two of the clamping plates engage the heads of the bolts 4 in such wise as to prevent longitudinal movement of the rail. One of the clamping plates is only provided with one bolt 11, which extends through an elongated opening of the switch point, thereby acting as a guide for said switch point 15. The elongated opening in the switch point is designated by the numeral 16. The clamping plate with only one bolt is formed with a raised portion 17, on which the switch point works. The clamping plates, with the exception of one is provided with bolts 18 which engage the base of the rails, thereby further securing the rail in position.

The invention having been set forth, what is claimed as new and useful is:

In combination, a pair of rails, fish plates for joining the rails end to end, bolts penetrating the fish plates and the rails for securing them together, a pair of clamping plates having upstanding portions at their ends and considerably spaced apart, bolts penetrating one of the upstanding portions of each of the plates to engage one of the fish plates to hold the other fish plate closely in contact with the other upstanding portion, the bolts of the upstanding portions engaging the head of the bolts of the fish plates in such wise as to prevent longitudinal movement of the rails.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALFORD PERVIS WILLOUGHBY.

Witnesses:

G. H. ROACH,
J. M. JANES.