

A. W. BRAND.
 ANCHOR RAIL CLAMP.
 APPLICATION FILED NOV. 4, 1908.

938,549.

Patented Nov. 2, 1909.

Fig. 1.

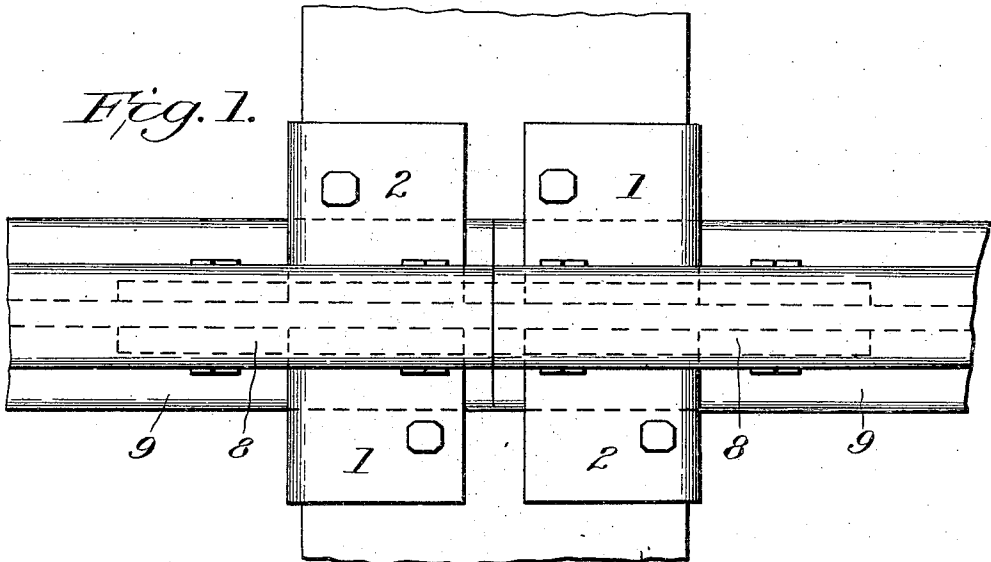


Fig. 2.

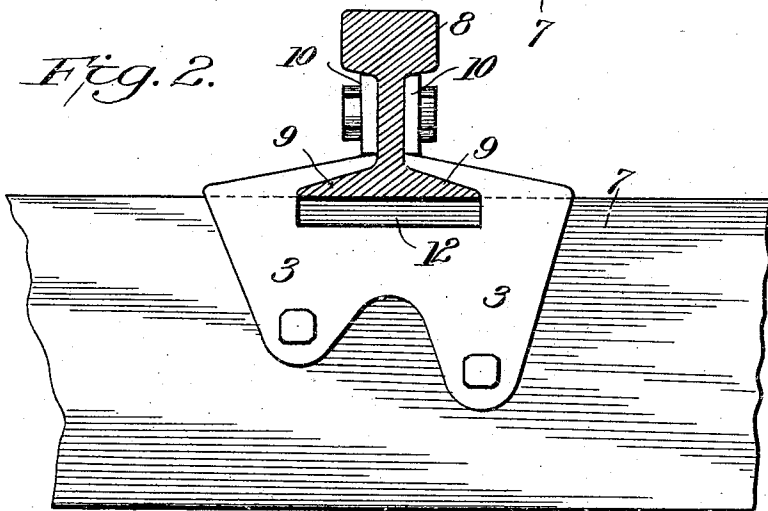
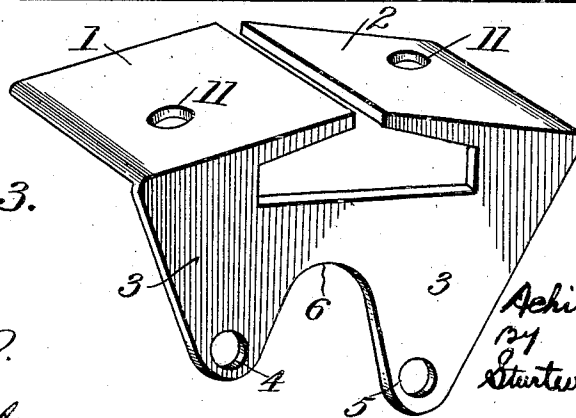


Fig. 3.



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ANCHOR RAIL-CLAMP.

938,549.

Specification of Letters Patent.

Patented Nov. 2, 1909.

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To all whom it may concern:

Be it known that I, ACHILL WALTER BRAND, a citizen of the United States, residing at Boise, in the county of Ada, State of Idaho, have invented certain new and useful Improvements in Anchor Rail-Clamps, of which the following is a description, reference being had to the accompanying drawing and to the figures of reference marked thereon.

The invention relates to new and useful improvements in devices for fastening railway rails to the ties and has for its object, to construct a fastening means which may be cheaply constructed, and which shall operate to hold the rail to the tie at the same time allowing the rail to be supported directly by the tie.

In the drawings which show by way of illustration, one embodiment of the invention; Figure 1 is a top plan view, showing a rail secured to the tie by my improved anchor clamps. Fig. 2 is a sectional view through the rail, showing the side face of the tie, and my anchor clamp. Fig. 3 is a perspective view of the anchor clamp.

The anchor clamp as herein shown, is made of one piece of metal and consists of clamping sections 1 and 2, which are secured to a depending shank portion 3. The shank portion 3, which joins the two clamping portions 1 and 2, is so constructed as to extend down along side of the tie and is provided with suitable apertures 4 and 5, through which the shank may be secured to the tie.

The anchor plate is cut away at 6 between the apertured portions. It will be noted that the apertures in the portions 4 and 5 are arranged at different relative heights. This arrangement of the apertures is very advantageous, especially when the anchor plate is used in connection with wooden ties, as it distributes the strain on the tie.

The clamping portions 1 and 2 lie on the upper face of the tie 7, and fit snugly against the center portion of the rail 8, and lie flat on the flange 9 of the rail.

The inner ends of the clamping members 1 and 2 extend underneath the fish plates

10, 10, and engage the lower edge of said fish plates. The clamping plates 1 and 2, are also provided with suitable apertures 11, 11, through which securing means may be driven into the upper face of the tie. The depending portion 3 of the anchor plate, is cut away at 12, directly underneath the rail 8, so that the rail rests directly on the upper face of the tie. If the tie should wear away underneath the rail, still the rail would be supported by the tie, and not by the anchor plate. A passing train will press the rail deep into the tie and will press the snug fitting fish plate on top of the clamping members, so as to close up any gap, and thus keep the tie, anchor plate, and rail in the same relatively safe fitting position, as when the clamp was first adjusted.

It will be obvious that my anchor plate or clamp may be used with ties of any shape, or made of any material, although the anchor plate is especially adapted for use with wooden ties.

As clearly shown in Fig. 1, two anchor plates are preferably used, one on each side of the tie.

Having thus particularly described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. The combination of a rail, a tie, fish plates and an anchor plate independent of said fish plates and comprising clamping members, adapted to rest on the upper face of the tie and the flanges of the rail, a depending shank portion connected to one end of said clamping members and adapted to engage the side of the tie, said shank portion being cut away directly underneath the flange engaging portion of said clamping members to receive the rail, said cut away portion being of greater depth than the depth or thickness of the flanges of the rail, said shank portion having apertures formed therein at different distances from said clamping members to receive the securing means and means for securing each clamping member to the top of the tie.

2. The combination of a rail, a tie, fish plates and an anchor plate comprising clamping members adapted to fit snugly the flanges of the rail, and extend underneath

the fish plates, and engage the under edge thereof, a depending shank portion formed integral with said clamping members, and extending down the side face of the tie, said
5 depending shank portion being cut away to receive the flanges of the rail and means whereby the depending portion may be secured to the side of the tie, and means for

securing the clamping members to the top of the tie. 10

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

ACHILL WALTER BRAND.

Witnesses:

T. F. HALVESTON,
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