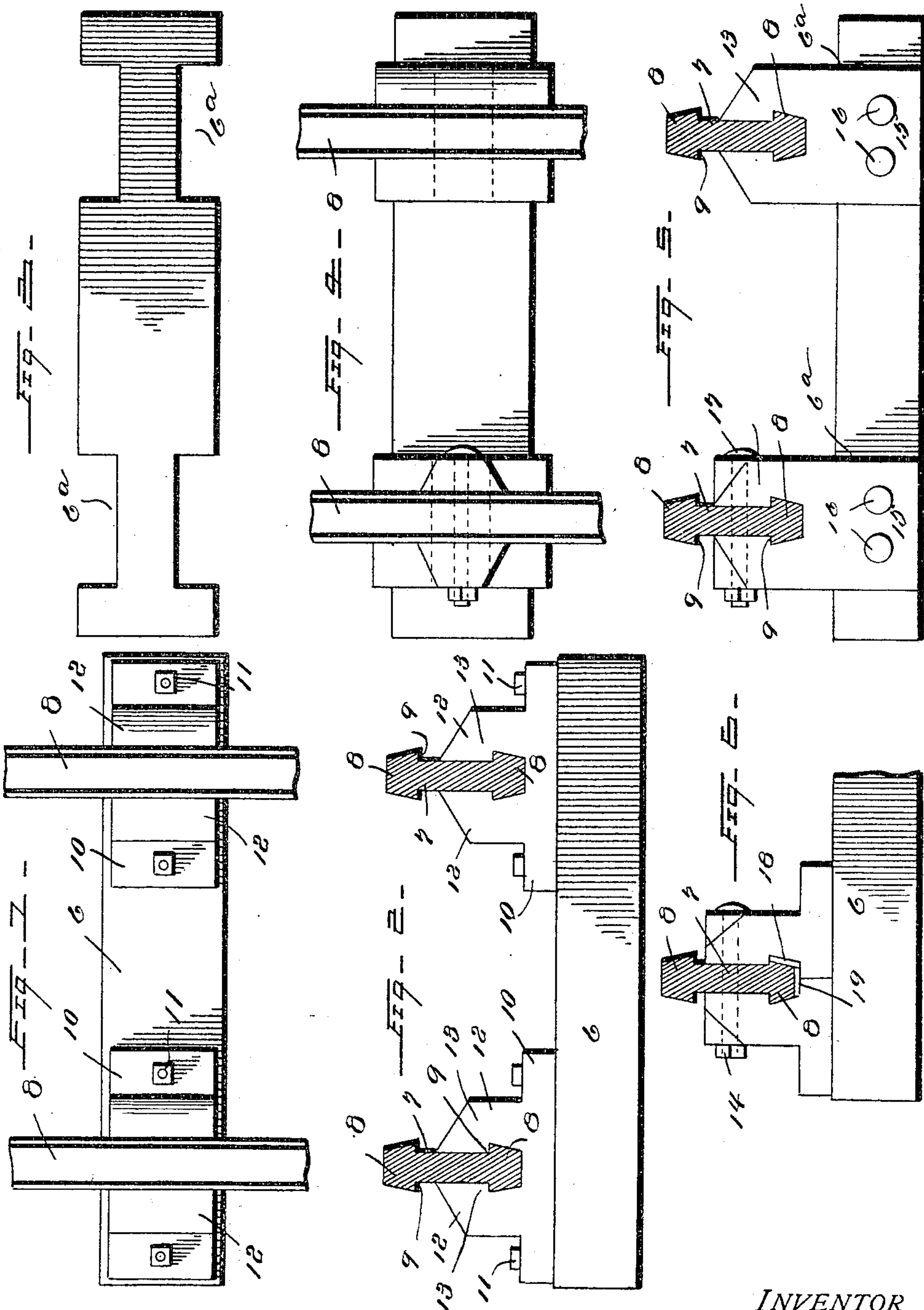


No. 808,116.

PATENTED DEC. 26, 1905.

G. SELL.  
RAILWAY.

APPLICATION FILED AUG. 25, 1905.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

GEORGE SELL, OF WOMELSDORF, PENNSYLVANIA.

## RAILWAY.

No. 808,116.

Specification of Letters Patent.

Patented Dec. 26, 1905.

Application filed August 25, 1905. Serial No. 275,799.

*To all whom it may concern:*

Be it known that I, GEORGE SELL, a citizen of the United States, residing at Womelsdorf, in the county of Berks and State of Pennsylvania, have invented new and useful Improvements in Railways, of which the following is a specification.

This invention is an improved railway-track having novelties of form and construction with respect to the rail, the rail-chair or fastening, and the tie.

The object of the invention is to provide a rail of which both sides can be used, the rail being symmetrical, so that it may be reversed when it becomes worn, and associated with this rail are clips or chairs whereby it may be securely fastened to the tie, either at the rail-joints or between the same.

In the accompanying drawings, Figure 1 is a plan view illustrating the invention. Fig. 2 is an end view of the track, the tie in these views being of the common form. Fig. 3 is a plan view of a modified tie. Figs. 4 and 5 are plan and end views showing different forms of clips applied to the tie shown in Fig. 3. Fig. 6 is an end view showing how worn rails are held in the clips.

Referring specifically to the drawings, 6 indicates a tie of ordinary construction. The rails comprise a web 7 and heads 8 at the top and bottom thereof. The rail is symmetrical and may be inverted to wear on either head. The sides of the head are beveled or inclined outwardly and form a sharp shoulder 9 on each side where they connect with the web.

The clips are constructed to engage over the head of the rail which is turned down, and thereby hold the rails securely in proper position. Each clip consists of a base-piece 10, bolted to the ties, as indicated at 11, and side pieces 12, which are so shaped that the space between them has the same outline as the head and part of the web of the rail. Each piece has a shoulder 13, which engages over the shoulder 9 on the head of the rail, and the side pieces bear against the sides of the web and act as lateral braces therefor. The clip is preferably made in one piece and is slipped over the end of the rail and slid down to the point desired, in which case no bolts are needed to secure the rail to the clip. One of the

side pieces may, however, be made separate and bolted on, as shown in Fig. 6 at 14.

The modified form of tie shown in Fig. 3, which is adapted for use with the clip shown in Figs. 4 and 5, has recesses 6<sup>a</sup> on opposite sides at each end, and the base-pieces of the clips have downwardly-extending blocks or portions 15, which fit within said recesses and are fastened by through-bolts 16, which extend through said blocks and through the portion of the tie therebetween. The location of the blocks in the recesses prevents any side slip. At one end of Figs. 4 and 5 is shown a plain clip without bolts, and at the other end is shown a clip having a bolt 17 extending through the rail to hold the same in place.

As stated above, the space between the side pieces of the clips is made the same size and shape as the head and web of the rail. When one head of the rail becomes worn and the same is to be reversed, it is necessary to fill up the space due to the worn head in order to make a tight fit. This is done by means of wedges 18 and 19, which are driven in at the side and bottom, respectively, of the worn head, and the rail is thus held in the same manner as originally. The clips being of comparatively large bulk serve as braces for the rail and take the lateral strain which would otherwise be supported by spikes.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a reversible rail, having symmetrical head and base, of a tie and a clip having a base on which the rail rests and side pieces which overhang the base of the rail and an extended base which is bolted to the tie, and wedges driven in between the rail-base and the base and sides of the clip.

2. The combination with a rail-clip having a base on which the rail rests and sides which support the web, of wedges driven in between the rail-base and the base and sides of the clip.

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

GEORGE SELL.

Witnesses:

JOHN J. SALLADE,  
EDWARD J. MILLER.