

G. BARCLAY.
JOINT CHAIR.
APPLICATION FILED NOV. 25, 1911.

1,025,044.

Patented Apr. 30, 1912.

Fig 1

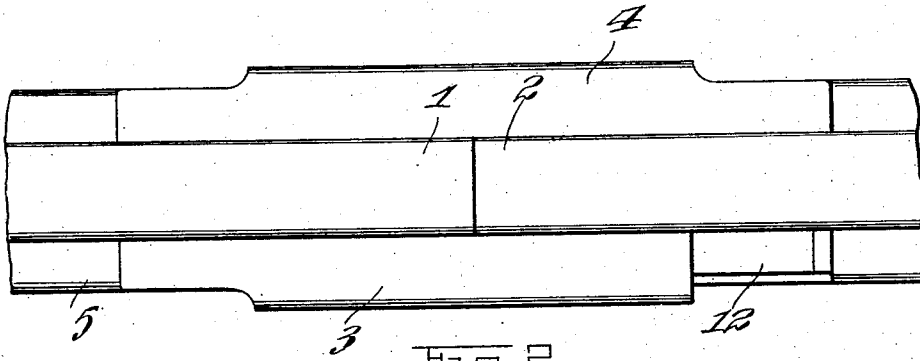


Fig 2

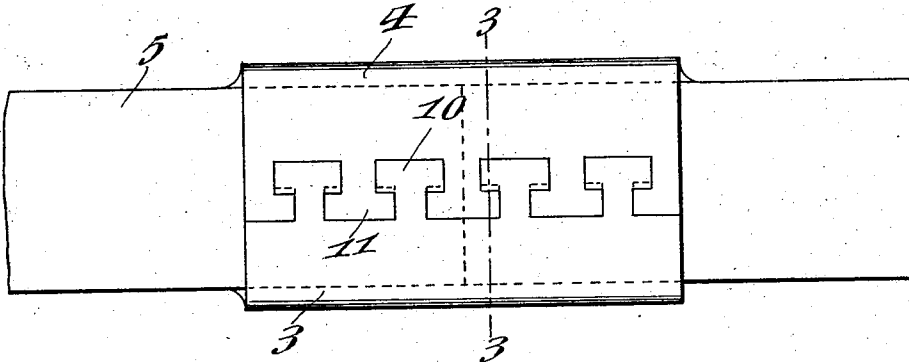
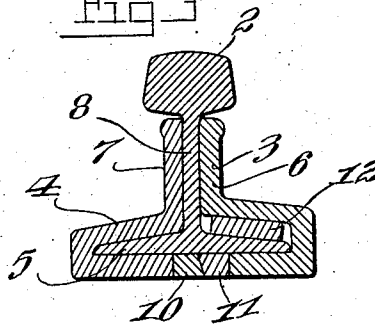


Fig 3



Witnesses

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UNITED STATES PATENT OFFICE.

GEORGE BARCLAY, OF AVONMORE, PENNSYLVANIA.

JOINT-CHAIR.

1,025,044.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE BARCLAY, a citizen of the United States, residing at Avonmore, in the county of Westmoreland and State of Pennsylvania, have invented new and useful Improvements in Joint-Chairs, of which the following is a specification.

This invention relates to joint chairs and fish plates and the object of the invention is to provide a simple and efficient device of this character which may be conveniently applied, which obviates the use of attaching bolts, and which draws the sections of the members together upon the rail and holds the rail so that there can be no relative, lateral or vertical play between them.

Further objects of the invention will appear as the following specific description is read in connection with the accompanying drawing, which forms a part of this application, and in which:—

Figure 1 is a top plan view. Fig. 2 is a bottom plan view. Fig. 3 is a section on the line 3—3 of Fig. 2.

Referring more particularly to the drawing, 1 and 2 represent the ends of the rails to be connected, and 3 and 4 the fish plate members which are arranged upon opposite sides thereof and are substantially U-shaped in cross section, the member 3 having a greater width between the legs thereof than the member 4 whose legs fit the base flange 5 of the rail. The member 3 is provided with a vertical flange 6 which is formed integral with the outer portion of the upper leg and the member 4 is provided with a similar flange 7. Both of these flanges extend between the upper legs of the fish plate members along side of the web 8 and extend immediately beneath the rail and are provided with a series of T-heads, those on the member 3 being indicated by the numeral 10, while those on the member 4 are indicated by the numeral 11. The T-heads 10 overhang the lateral extending portions thereof and are beveled upon their inner faces to

engage the similarly beveled portions of the T-heads 11 so that when these heads are inter-connected and both of the bottom legs of the members 3 and 4 are drawn up so as to be in alinement. The members will be drawn together, as will be clearly understood, by the action of the inclined surfaces riding over each other.

In order to draw the heads into engagement with each other, and keep a perfectly tight joint between the parts, a key 12 is inserted between the base flange 5 of the rail and the underneath portion of the upper leg of the member 3. This key is somewhat tapered so that it will readily enter the space formed between the fish plate member and the base flange and when driven home, will draw the heads into interlocking engagement with the under side of the heads 9 of the rail.

What is claimed is:—

1. A joint chair comprising fish plate members adapted to embrace the webs and base flanges of the rails, interlocking T-heads on the members adapted to connect the same beneath the rail, a tapered bar inserted between one of the members and the base flange of the rail for drawing the T-heads into interlocking engagement, and means acting when the T-heads are drawn together for drawing the members together.

2. A joint chair comprising a pair of fish plate members adapted to embrace the webs and base flanges of the rails to be connected, interlocking T-heads formed on the bottom of said members, said T-heads having oppositely disposed inclined faces which act to draw the members toward each other when the T-heads are drawn to interlocking engagement, and means for drawing the T-heads into interlocking engagement.

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

GEORGE BARCLAY.

Witnesses:

ROY M. STRAWN,
JESSE W. SMAIL.