(No Model.) 2 Sheets—Sheet 1.

# G. WEEKS.

## RAILWAY RAIL CHAIR.

No. 293,546. Patented Feb. 12, 1884.

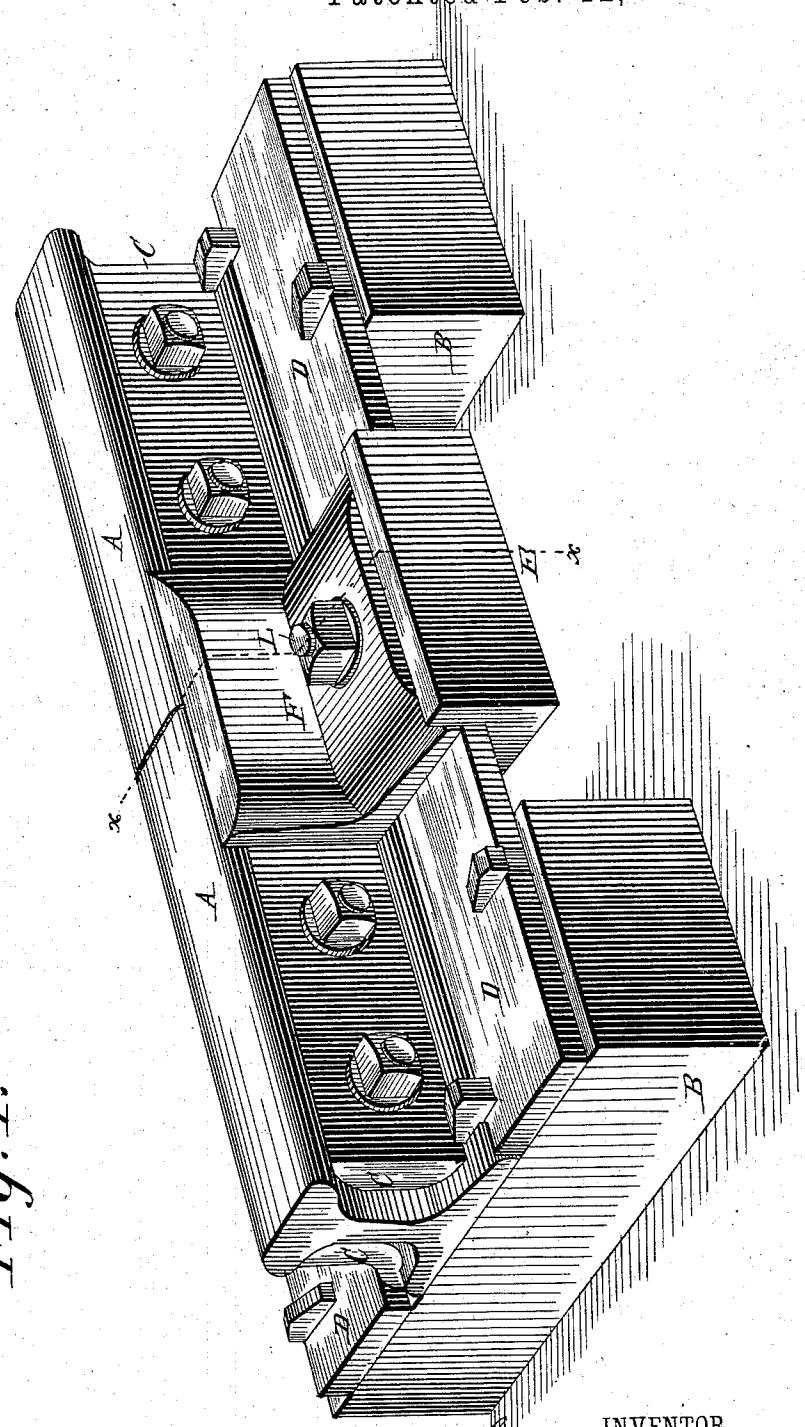



Fig. 1.

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(No Model.) 2 Sheets—Sheet 2.

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## RAILWAY RAIL CHAIR.

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*Fig. 2*

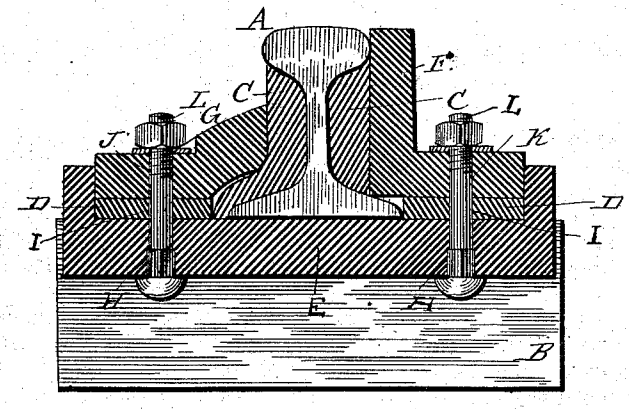



*Fig. 3.*

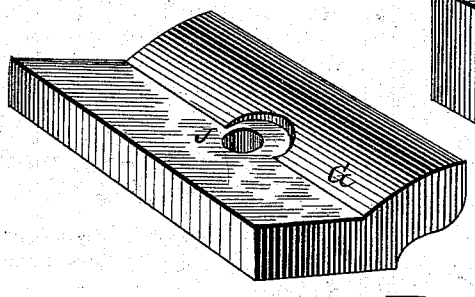



*Fig. 4.*

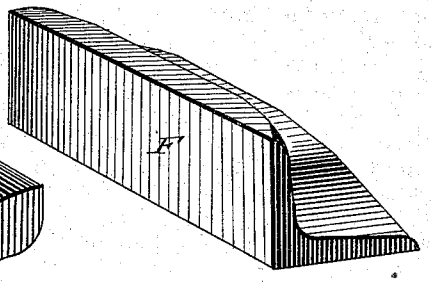
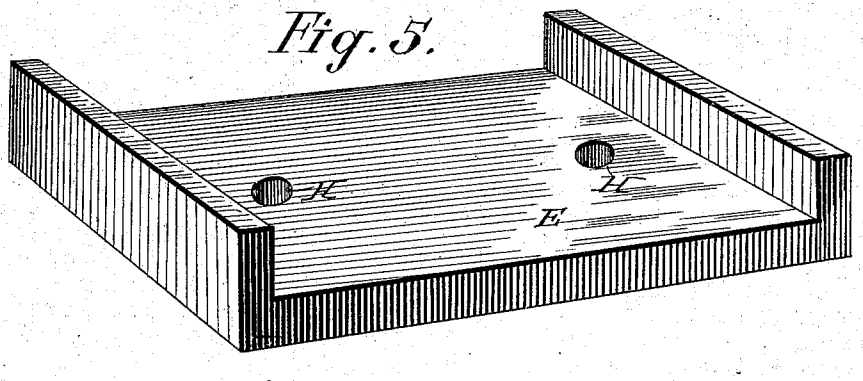



*Fig. 5.*




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# UNITED STATES PATENT OFFICE.

GEORGE WEEKS, OF EAST OAKLAND, CALIFORNIA.

## RAILWAY-RAIL CHAIR.

SPECIFICATION forming part Letters Patent No. 293,546, dated February 12, 1884.

Application filed November 10, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE WEEKS, of East Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in Railway-Rail Chairs; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved railway-rail chair. Fig. 2 is a cross-sectional view on line *x x*, Fig. 1; and Figs. 3, 4, and 5 are perspective detail views of the chair proper and the two locking-blocks, respectively.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to what are generally called "railway-rail chairs;" and it consists in the improved construction and combination of parts of the same, as will be hereinafter more fully described and claimed.

In the accompanying drawings, A A represent the rails; B B, the ties, and C C the fish-plates, the above-mentioned parts being old, and forming no portion of my present invention.

D D represent the side plates, which may be made of steel, iron, &c., and which run parallel with the rail, and have their ends resting upon, and spiked or otherwise secured to, the ties B B, the said pieces being made of a sufficient strength to support the rail-chair E. This chair E, which is shown in detail in Fig. 5, extends under and supports the ends of the rails A A, its ends extending up at right angles to the side pieces, D D, for the purpose of supporting and keeping in place the locking-blocks F and G.

F represents the angle locking-block, (shown in detail in Fig. 4,) its outer surface at either end being rounded or beveled and its sides of such a height that when placed in operative position its edges will be flush with the top of the rail. When in operative position the lower outer edge of the angle-block F bears firmly against one of the upwardly-extending ends of the rail-chair E.

G represents a locking-block, which is secured in operative position, with its outer edge bearing against one of the upwardly-projecting ends of the chair E. The rail-chair E, side plates, D D, and locking-blocks F and G are provided with suitable apertures, H H, I I, J J, and K, for the passage of bolts L, by means of which the various parts forming my improved rail-chair are secured in their operative positions.

From the foregoing description, taken in connection with the accompanying drawings, the construction of my improved railway-rail chair will readily be understood without requiring further explanation.

It will be seen that the angle locking-block F is made of such a shape that it can be reversed when one of its edges becomes worn, the object of constructing the said block of the form previously described being to adapt it to carry the wheels of the passing cars smoothly over the joints of the rails.

By making the various parts of the chair of the proper dimensions it will be capable of sustaining a great weight, keeping the rails together, and stiffening the joints, thereby making the rail at the joint as firm as at any other point.

It will also be seen that my improved rail-chair is simple in construction, and that it can be applied without disturbing either rails, ties, or fish-plates.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The combination, with the rails A A, ties B B, and fish-plates C C, of the side plates, D D, having apertures I I, chair E, having upwardly-extending ends, and provided with apertures H H, locking-block G, having aperture K, and angle locking-block F, provided with apertures J J, and having its outer surface at either end beveled or rounded, and its sides of such a height that when placed in operative position its upper edge will be flush with the top of the rails A A, all constructed and arranged to operate substantially in the manner and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

GEORGE WEEKS.

Witnesses:

DAVID CARRUTHERS MCGREGOR,

ARCHIBALD BAIRD JAMIESON.