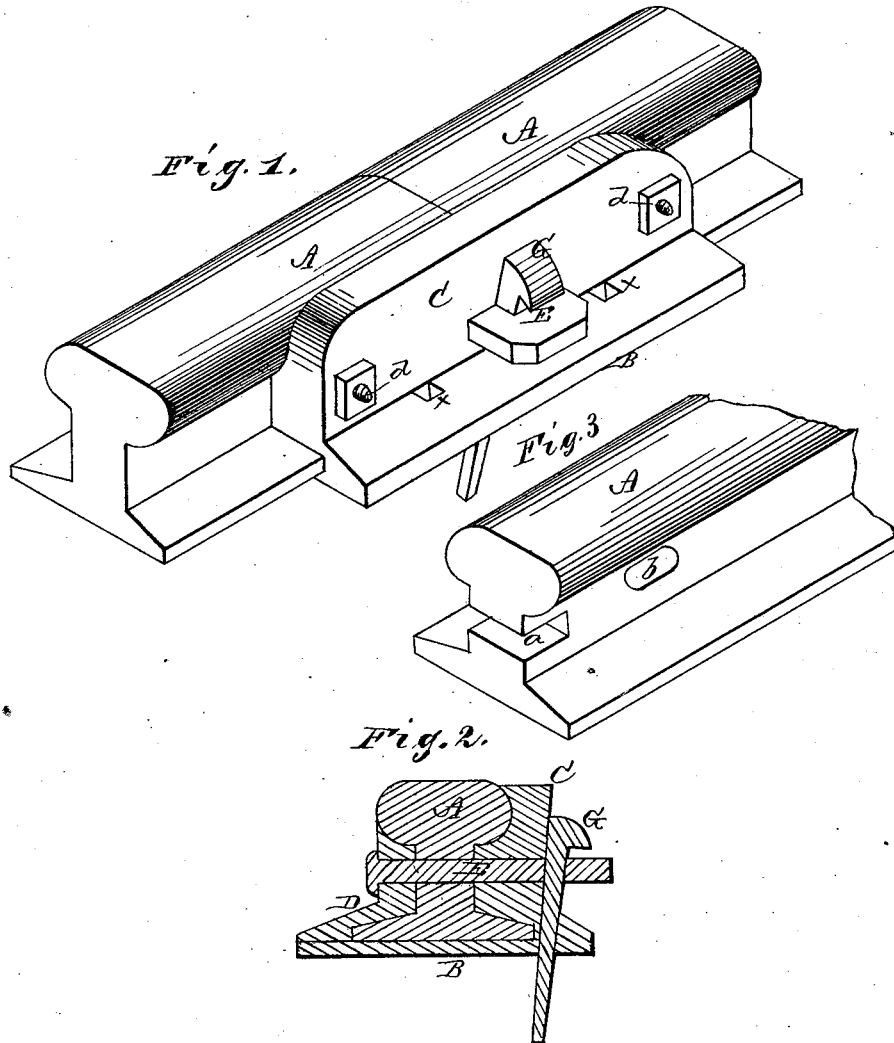


G. O. ROSS.
Railway-Rail Chair.

No. 164,596.

Patented June 15, 1875.



WITNESSES
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By

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UNITED STATES PATENT OFFICE.

GEORGE O. ROSS, OF MARION, OHIO.

IMPROVEMENT IN RAILWAY-RAIL CHAIRS.

Specification forming part of Letters Patent No. **164,596**, dated June 15, 1875; application filed May 19, 1875.

To all whom it may concern:

Be it known that I, GEORGE O. ROSS, of Marion, in the county of Marion, and in the State of Ohio, have invented certain new and useful Improvements in Railway-Rail Chairs; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a railroad-chair, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view, showing my railroad-chair in position. Fig. 2 is a transverse vertical section of the same. Fig. 3 is a view of one end of the rail.

A A represent the adjoining ends of two railroad-rails. Each rail is at the end provided with a horizontal slot, *a*, through the web of the rail, and a suitable distance inward from the same is an elongated bolt-hole, *b*. The chair by which the two rails are united is composed of a base-plate, B, from one side of which extends a flange, C, to fit over the base of the rails on the outer side, against the hub and against the head, as shown fully in Fig. 2. This flange C, with the base-plate B, is formed in one piece. On the inner side of the rails is placed a loose

flange, D, fitting over the base and against the web, and against the under side of the head; but it does not project beyond the side thereof. *d d* are bolts passed through the flanges D C and elongated bolt-holes *b b* in the rails, and fastened by nuts on their outer ends. A key, E, is also passed through said flanges, and through the slots *a a* in the ends of the rails. In the outer end of the key E is a mortise for the passage of a spike, G, which also passes through the foot of the flange C and the base-plate B, to be driven into the tie underneath. In both sides of the chair are suitable hole *x x*, for the passage of spikes to fasten the chair to the tie.

This chair is simple in construction, durable, and will not allow either rail to get out of place.

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

The railroad-chair herein described, consisting of the base-plate B, with stationary flange C, formed in one piece, and loose flange D, all constructed as described, in combination with the rails A A, having slots *a* and elongated bolt-holes *b*, the independent and removable key E, and spike G, all substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of April, 1875.

GEORGE O. ROSS.

Witnesses:

J. BARTRAM,
S. H. BARTRAM.