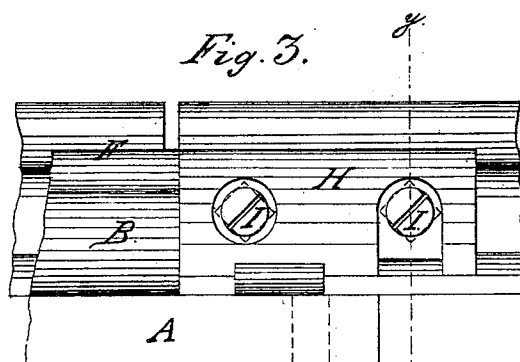
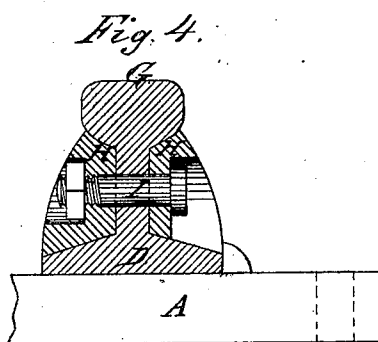
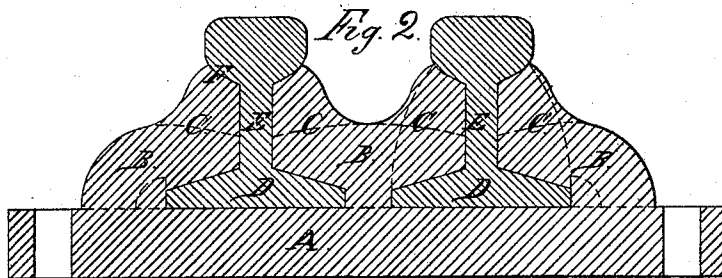
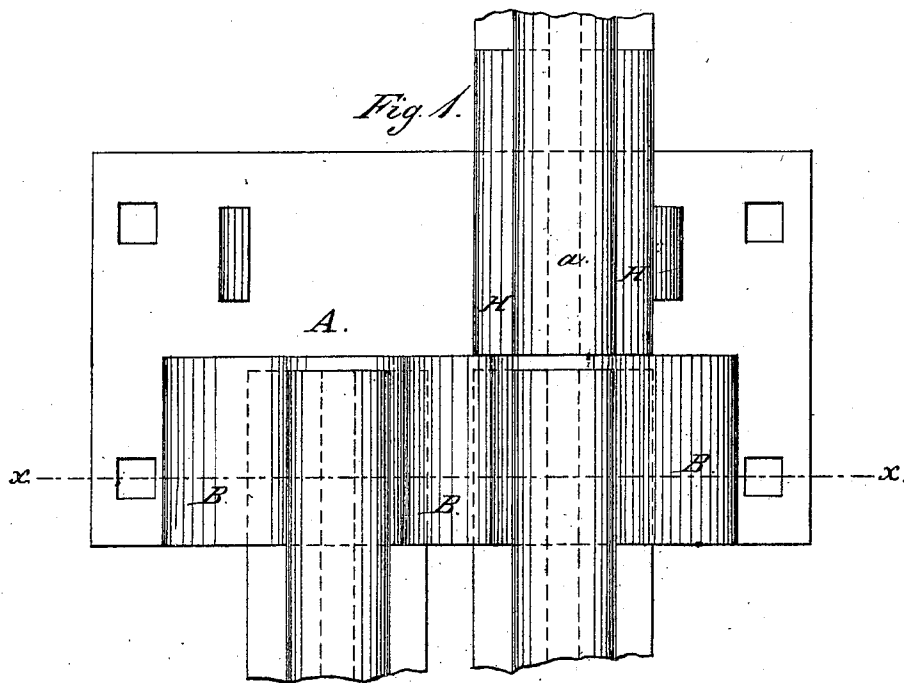


H. C. FOX & J. HAYWARD.
RAILROAD SWITCH-CHAIR.

No. 177,112.

Patented May 9, 1876.



WITNESSES:

H. Rydquist.
John Goethals

INVENTOR:

H. C. Fox and
BY *J. Hayward*
Wm. M. M.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

HENRY C. FOX AND JOSEPH HAYWARD, OF ST. JOSEPH, MISSOURI.

IMPROVEMENT IN RAILROAD-SWITCH CHAIRS.

Specification forming part of Letters Patent No. **177,112**, dated May 9, 1876; application filed March 13, 1876.

To all whom it may concern:

Be it known that we, HENRY C. FOX and JOSEPH HAYWARD, of St. Joseph, in the county of Buchanan and State of Missouri, have invented a new and Improved Switch-Chair, of which the following is a specification:

Our invention consists of the base and web supports of the rails, extended up to and so fitted under the overhanging sides of the rail-head that they are supported against splitting off and hammering down to a greater extent than in the common arrangement.

Figure 1 is a plan view of our improved rail-chair. Fig. 2 is a section taken on line *x x* of Fig. 1. Fig. 3 is a side elevation, and Fig. 4 is a section on line *y y* of Fig. 3.

Similar letters of reference indicate corresponding parts.

A represents the base of the chair; B, the clips for securing the base and web of the rail, which, in the common construction of switch-chairs, extend up to the dotted line C, or thereabout, being mainly to hold the rail by the base D, and only supporting the web E for a very short distance above the base. My invention consists of extending these clips or base-supports up along the web to and partly around the sides of the head, as at F, to sustain them substantially against being

split or hammered down by the wheels, and for the shifting-rail G, which cannot be supported by the stationary clips. I propose to apply the supports H between the base D and the sides of the head in the same manner, thus effectually protecting these parts, which, perhaps, more than any other suffer from pounding by the wheels. These supports will be held on by bolts I going through them and the rail, and having sockets in the beveled sides of the supports for the heads and nuts.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. A switch-chair for railroads, having base A, provided with clips B, extended into contact with the upper face of the foot, the whole side face of the web, and the under surface of the head of the rail, to form a solid head-support, as shown and described.

2. The detachable supports H, combined with the base, web, and head of the movable switch-rail, substantially as specified.

HENRY C. FOX.
JOSEPH HAYWARD.

Witnesses:

W. H. LOVE,
L. N. SMITH.