

(No Model.)

J. T. RICHARDS.
RAILROAD CHAIR OR TIE PLATE.

No. 531,862.

Patented Jan. 1, 1895.

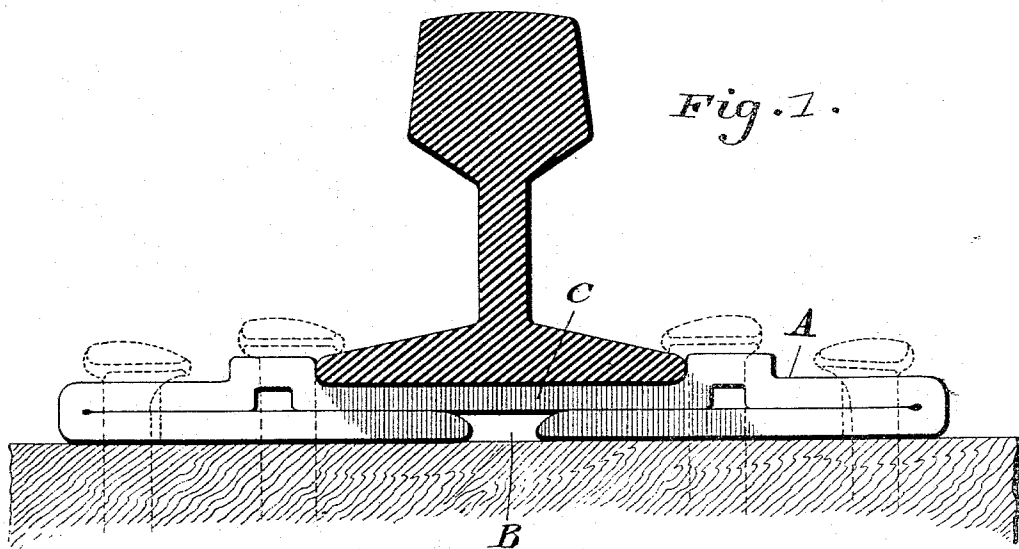
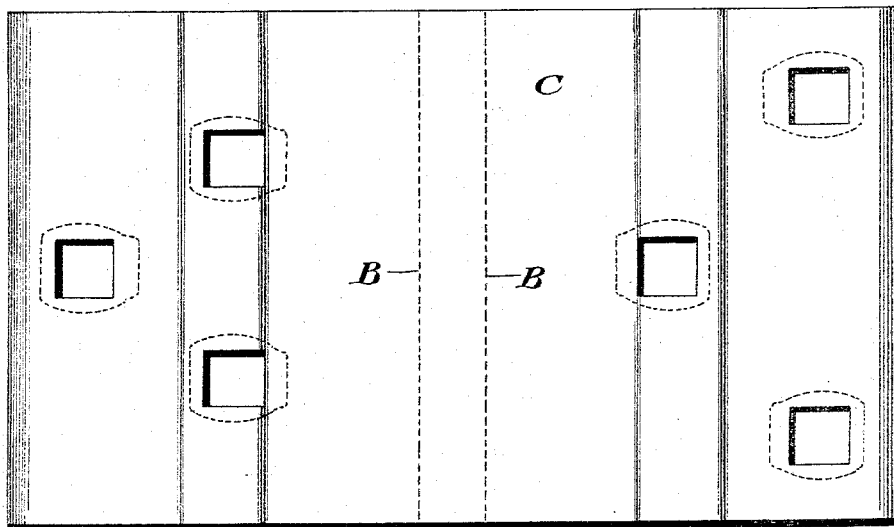


Fig. 2.



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JOSEPH T. RICHARDS, OF PHILADELPHIA, PENNSYLVANIA.

RAILROAD CHAIR OR TIE-PLATE.

SPECIFICATION forming part of Letters Patent No. 531,862, dated January 1, 1895.

Application filed June 6, 1894. Serial No. 513,609. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH T. RICHARDS, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Railroad Chairs or Tie-Plates, which improvement is fully set forth in the following specification and accompanying drawings.

My invention relates to an improvement in a chair or tie plate adapted to support a railroad rail, and protect the cross tie or sleeper, and consists in forming such chair or plate of a piece of metal having its ends bent under the same with a channel between said ends so as to provide a cushion or elastic bearing for the rail.

It also consists of a chair or tie plate which has its ends bent below the same forming a channel between said ends, producing a cushion or elastic bearing for the rail, and shoulders on the upper face or part between which the base of the rail is received and seated.

Figure 1 represents an end elevation of a railroad chair or tie plate embodying my invention. Fig. 2 represents a top or plan view thereof.

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

Referring to the drawings: A designates a railroad chair or tie plate, which is intermediate of the rail and cross tie. The chair or plate has on its under side the channel B, which is ordinarily located below the center of the rail, and provides the elastic bearing C, on which the rail is seated and supported.

Rising from the upper surface of the chair or plate are shoulders D, which are separated a sufficient distance, so as to receive between them the base of the rail.

The chair or plate has openings to receive spikes for connecting the chair or plate with a tie, and for preventing lateral shifting or displacement of the rail, when seated thereon. The chair or plate is formed of a piece of metal bent under itself, its ends being sufficiently separated to leave the channel B between the same, said channel being practically below the center of the rail, whereby an elastic bearing or cushion is provided for the rail.

The shoulders D are integral with the chair or plate and may be formed by raising the metal at the proper places in order to receive the base of the rail between them, and they may also crimp the piece, which adds to the strength of the chair or plate.

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

1. A railroad chair or tie plate constructed of a piece of metal having its ends bent under the same, with a channel between said ends, thereby providing an elastic bearing or cushion for a rail when seated thereon, substantially as described.

2. A railroad chair or tie plate constructed of a piece of metal having its ends bent beneath the same, leaving a channel between said ends on the lower part of the chair or plate, forming an elastic bearing or cushion for a rail, and shoulders on the upper part between which the base of the rail may be held, substantially as described.

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