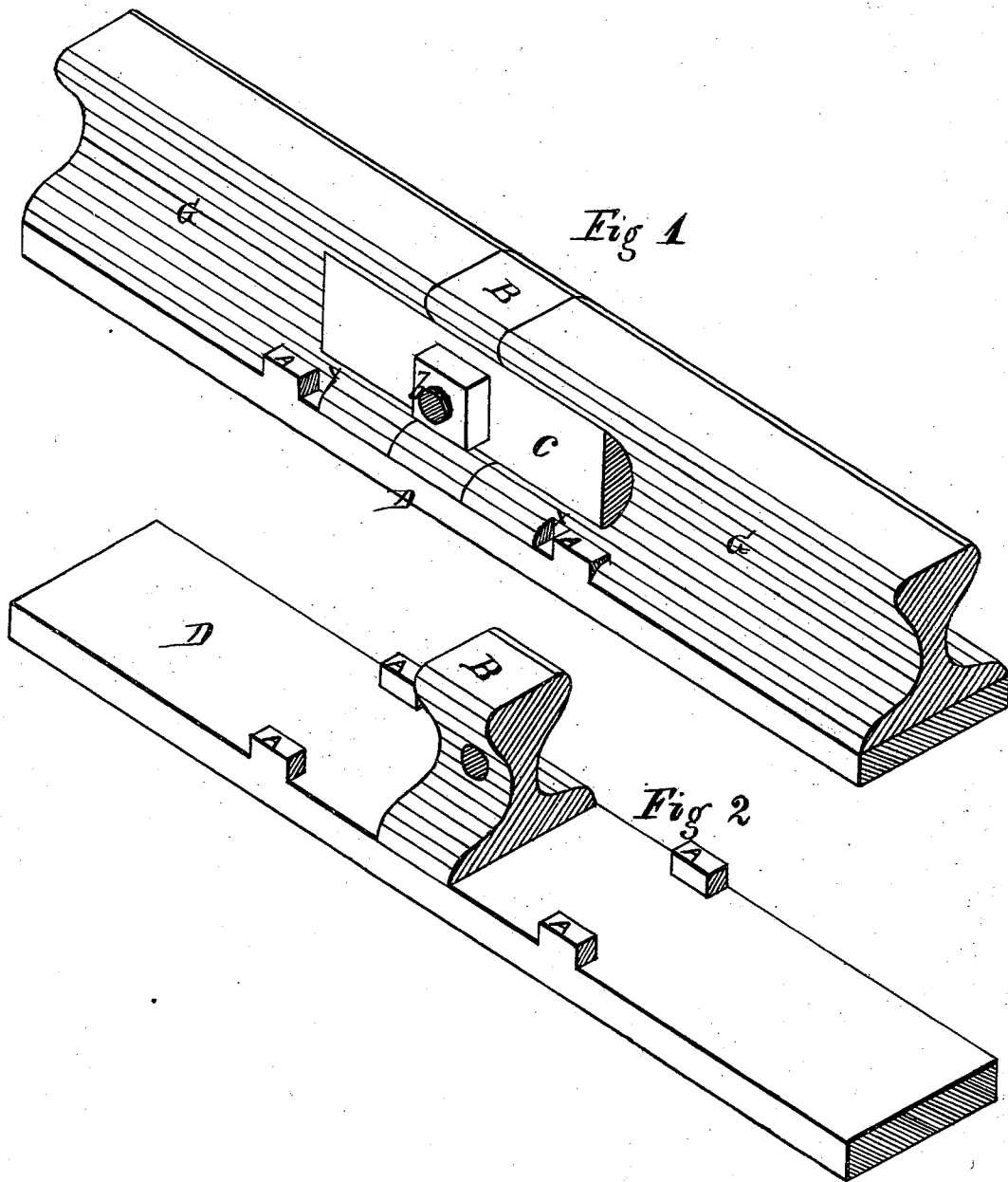


W. H. ROBINSON.
Railroad-Rail Joints.

No. 169,293.

Patented Oct. 26, 1875.



WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM H. ROBINSON, OF YATES CITY, ILLINOIS.

IMPROVEMENT IN RAILROAD-RAIL JOINTS.

Specification forming part of Letters Patent No. **169,293**, dated October 26, 1875; application filed October 4, 1875.

To all whom it may concern:

Be it known that I, WILLIAM H. ROBINSON, of Yates City, in the county of Knox and in the State of Illinois, have invented certain new and useful Improvements in Railroad-Rail Joints; 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-rail joint, 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 invention as applied to two adjoining railroad-rails. Fig. 2 is a perspective view of my invention.

The object of my invention is to prevent the ends of railroad-rails from being battered by the cars running over them; and to this end I use a plate or bar, D, of iron, of suitable length to rest upon one or two ties, as may be desired, and of the same width as the feet of the rails. On each side of this plate or bar are two small projections, A A, raised by welding or by the use of a swaging-tool, or by both, which projections fit into notches *x x* cut in

the edges of the rails G G, as shown in Fig. 1. These notches are made longer than the projections A, so as to allow for the expansion and contraction of the rails. B represents a piece of rail about two or three inches long, more or less, of the same pattern as the rails G, and provided with a three-quarter inch round hole, *a*, through the neck. This piece B is firmly riveted or welded to, or forged or cast in one piece with, the bottom plate or bar D. The rails G G are placed on the plate D, with their ends up against the piece B, the notches *x* fitting over the projections A, and convex bars or fish-plates C are fitted in the concave spaces on each side of the rails, and these bars or fish-plates are fastened by a bolt, *b*, passing through them and through the piece B, whereby the whole device, including the rails G, are held firmly together.

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

The base-plate D, provided with raised projections A and center piece B, in combination with the rails G G, having notches *x x*, the fish-bars C C, and bolt *b*, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 11th day of September, 1875.

W. H. ROBINSON. [L. S.]

Witnesses:

JOHN E. KNUBB,
OBED RINEHART.