

J. H. BEAN.
Railway Rail Joints.

No. 153,884.

Patented Aug. 11, 1874.

Fig 1.

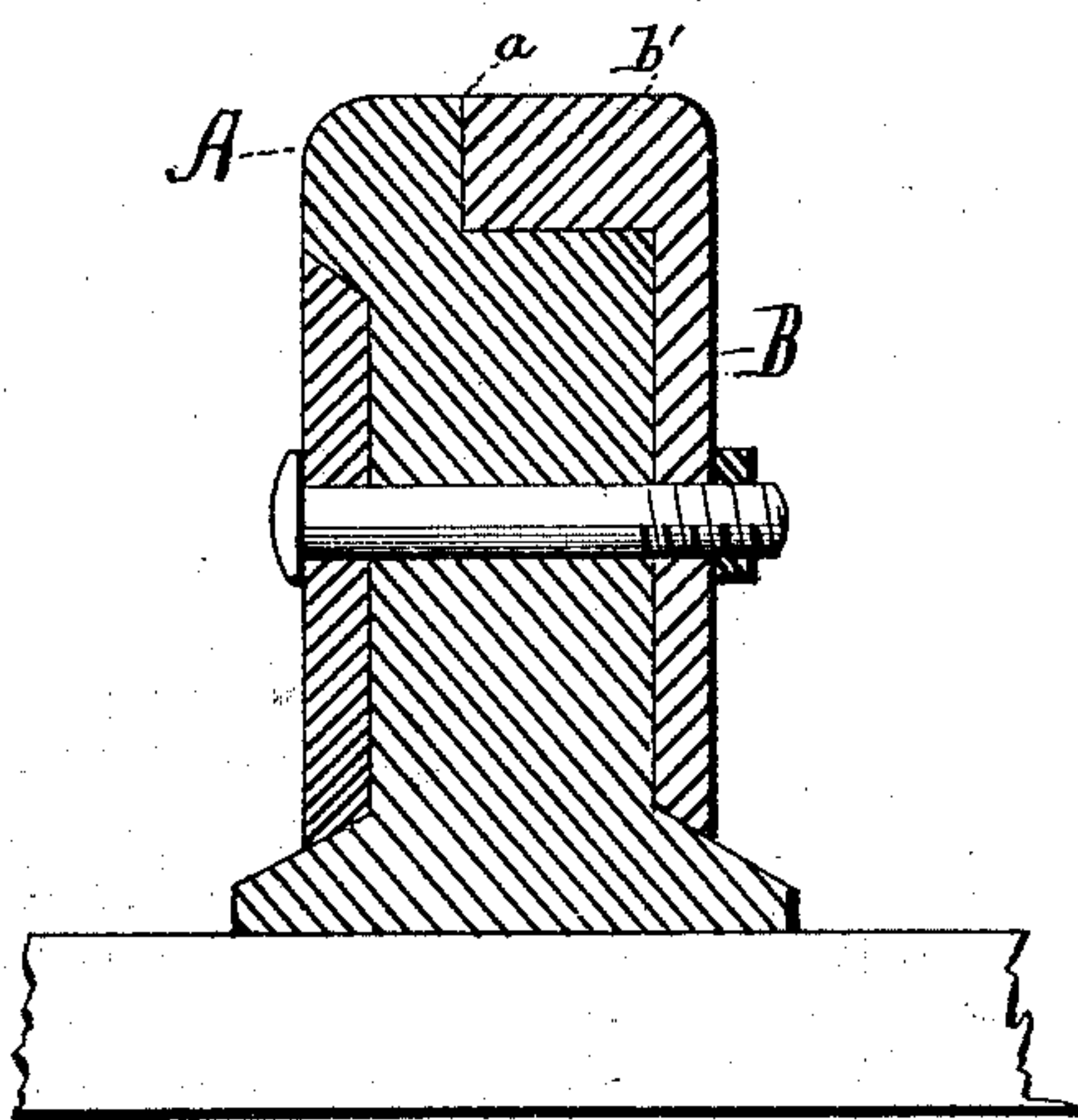


Fig 2.

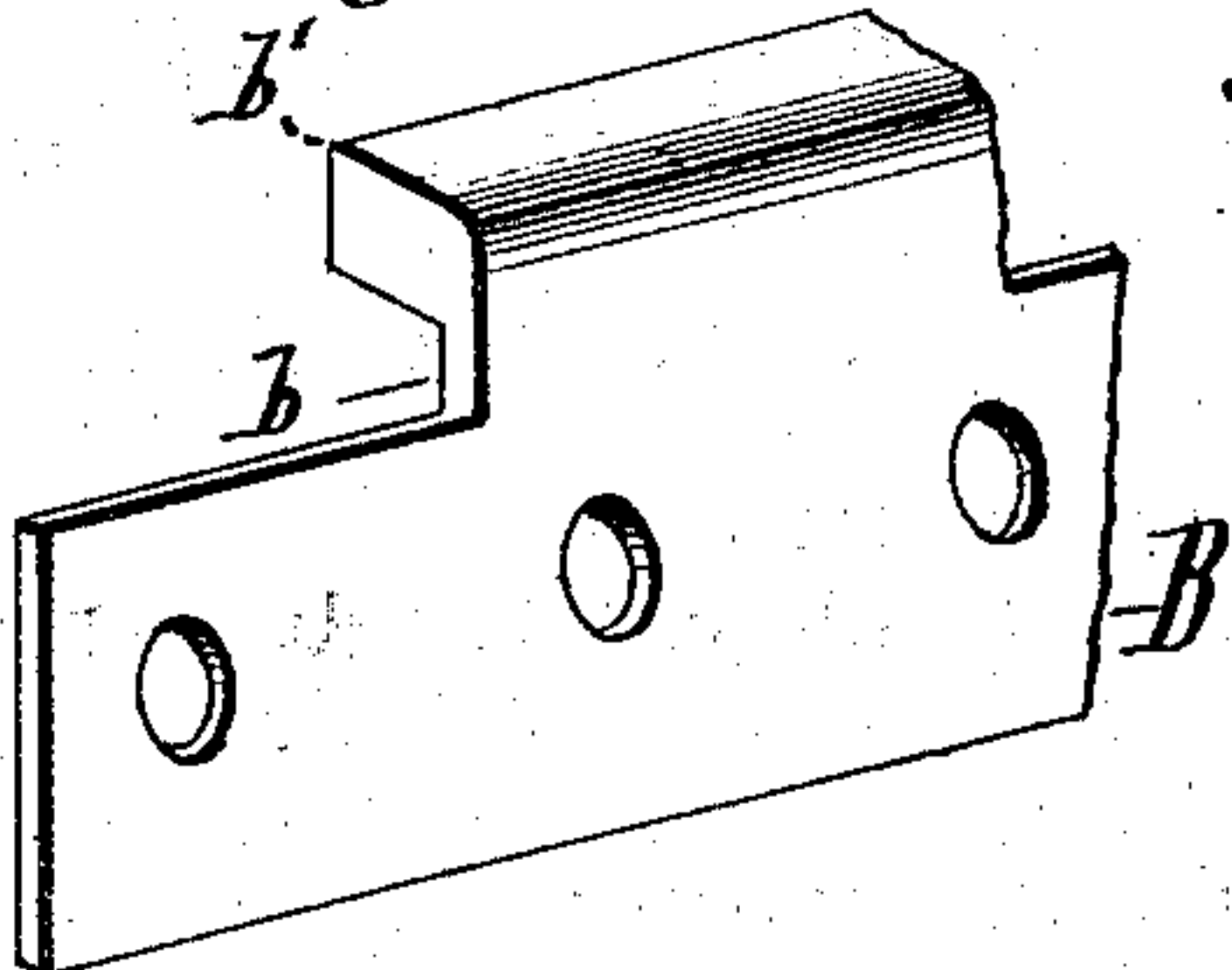
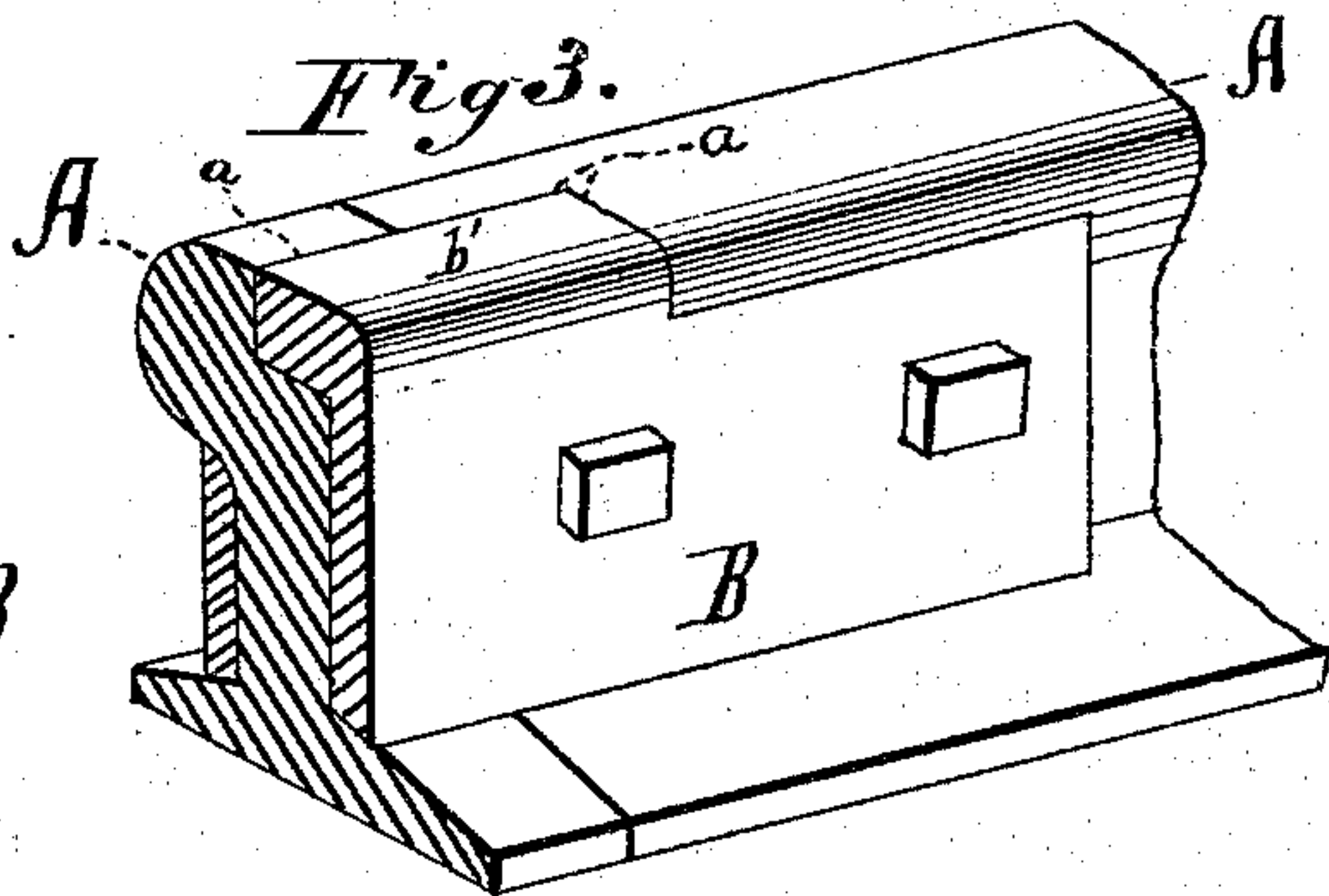


Fig 3.



Witnesses;

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UNITED STATES PATENT OFFICE.

JOSEPH H. BEAN, OF CINCINNATI, OHIO.

IMPROVEMENT IN RAILWAY-RAIL JOINTS.

Specification forming part of Letters Patent No. **153,884**, dated August 11, 1874; application filed July 17, 1874.

To all whom it may concern:

Be it known that I, JOSEPH H. BEAN, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Railroad-Rail Joints; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

This invention consists in providing a fish-plate upon one side of the rail with an extended right-angled bearing-lip, adapted to project into a proper recess cut in the adjacent ends of the rails, and rest directly over the vertical web, so that the impact of a passing wheel at the joint is borne by the interposed bearing-lip, and by the web of the rail, instead of by the fish-plate and the securing-bolts.

In the drawings, Figure 1 represents a sectional elevation of my improved joint; Fig. 2, a partial perspective view of the main fish-plate; and Fig. 3, a perspective view, partially in section, of the rail-joint.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction.

A A represent rails, of ordinary construction, the adjacent ends of which are properly cut away upon one side of the top portion, to form a suitable recess, *a*, the inner portion of which is directly over the vertical web of the

rail, as shown. B represents a fish-plate, of the usual construction, which is provided in addition with the extended vertical portion *b*, and the right-angled bearing-lip *b'*, adapted to rest in and fill the recess in the rails A A, as shown.

When the parts are united by the securing-bolts and the opposite fish-plate, in the usual manner, it will be observed that the bearing-lip *b'* overhangs and rests upon the vertical web of the rail, so that the impact of a passing wheel at the joint is borne by the interposed lip and the web of the rail, instead of by the fish-plate and the securing-bolts, as is usual.

The advantages of this construction will be readily appreciated from the foregoing description.

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

In a rail-joint, of substantially the described construction, the bearing-lip *b'*, adapted to overhang and rest upon the vertical web of the rail, substantially as described.

This specification signed and witnessed this 10th day of July, 1874.

J. H. BEAN.

Witnesses:

H. ELLA MATTHEWS,
JAMES J. FINLEY.