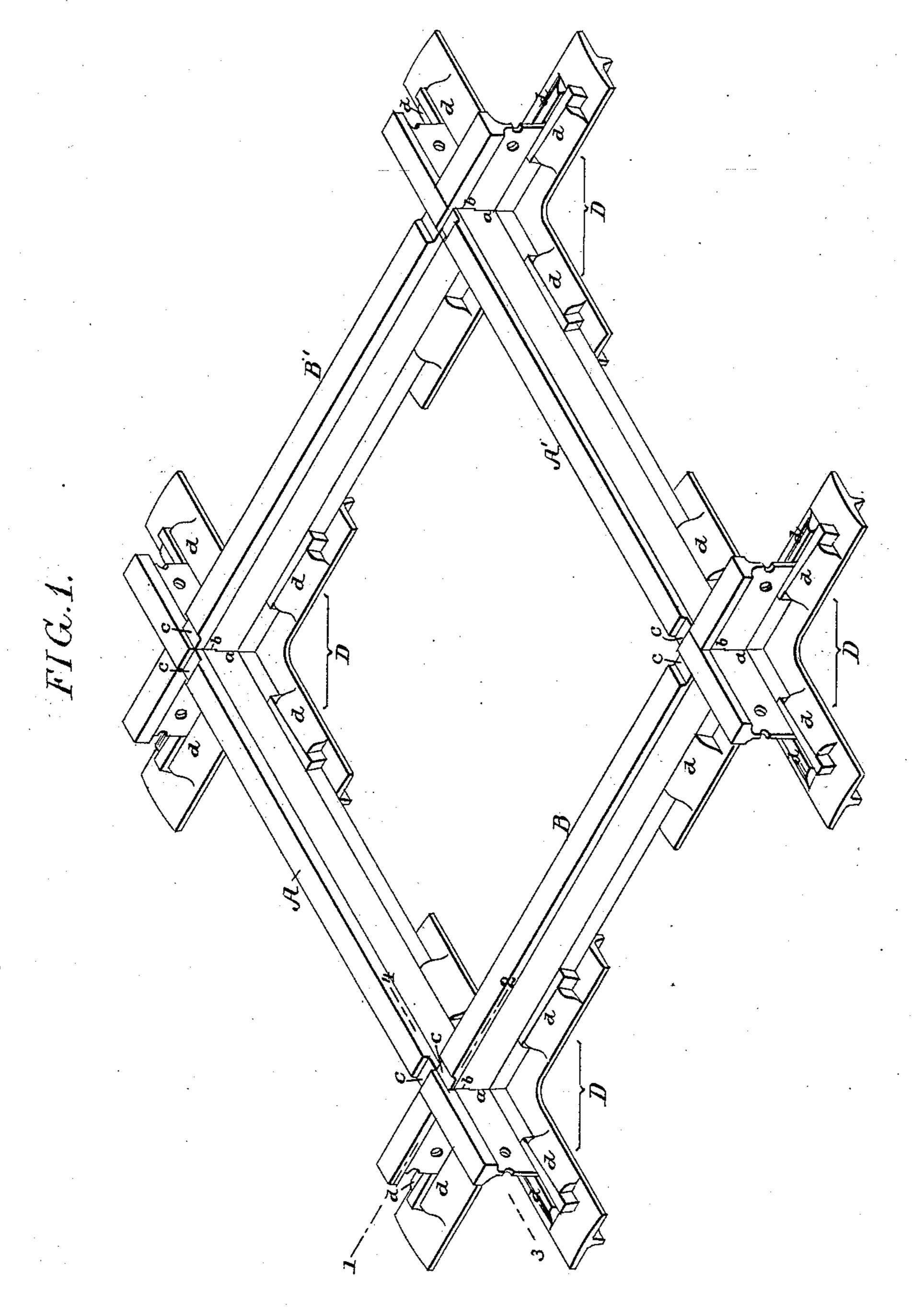
W. WHARTON, Jr.

RAILWAY CROSSING.

No. 359,116.

Patented Mar. 8, 1887.



Witnesses: Alex. Barkoff John &. Parisa

Inventor:
William Wharton, Ir.
by his Attorneys
Howson 45mf

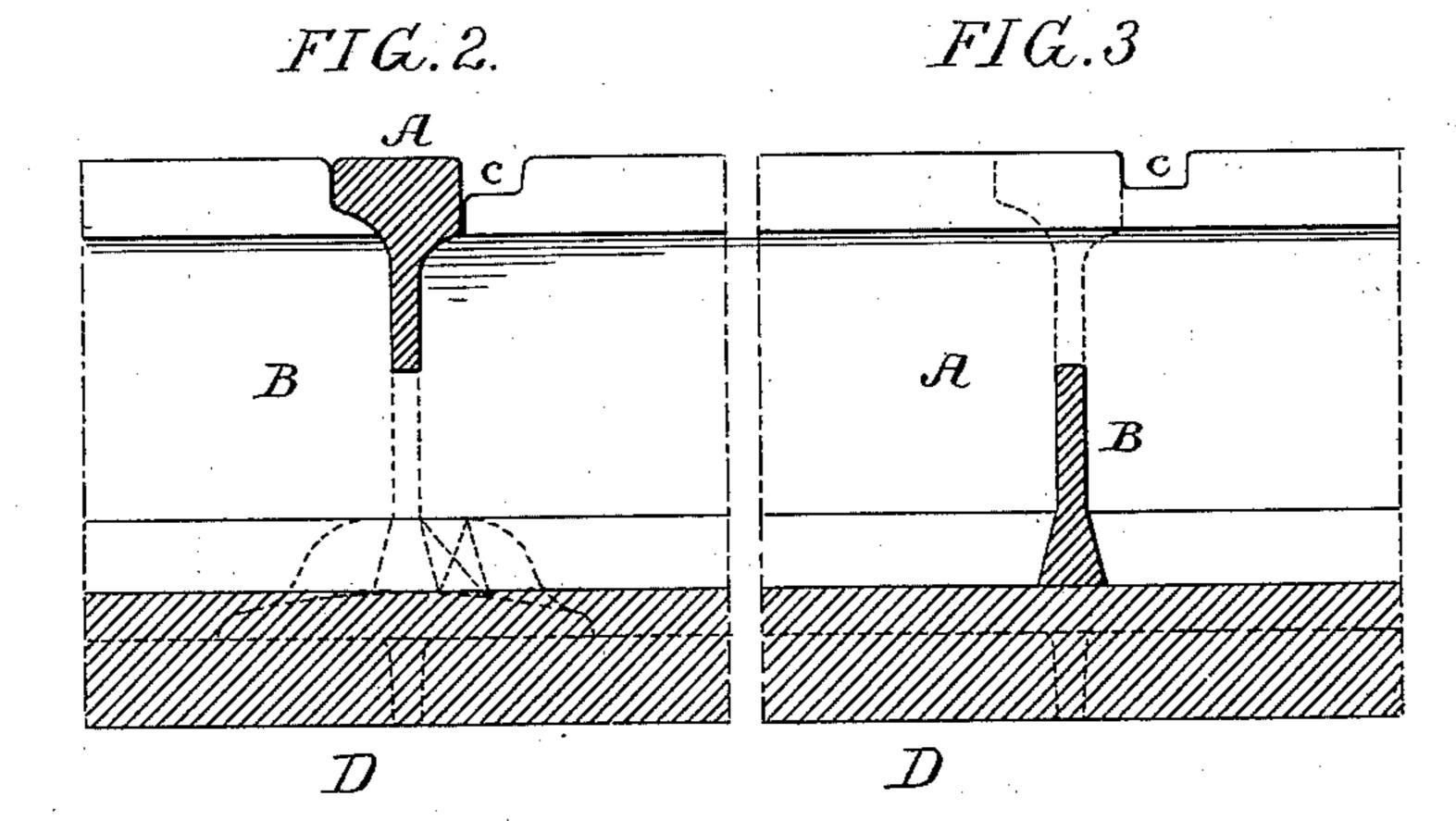
2 Sheets—Sheet 2.

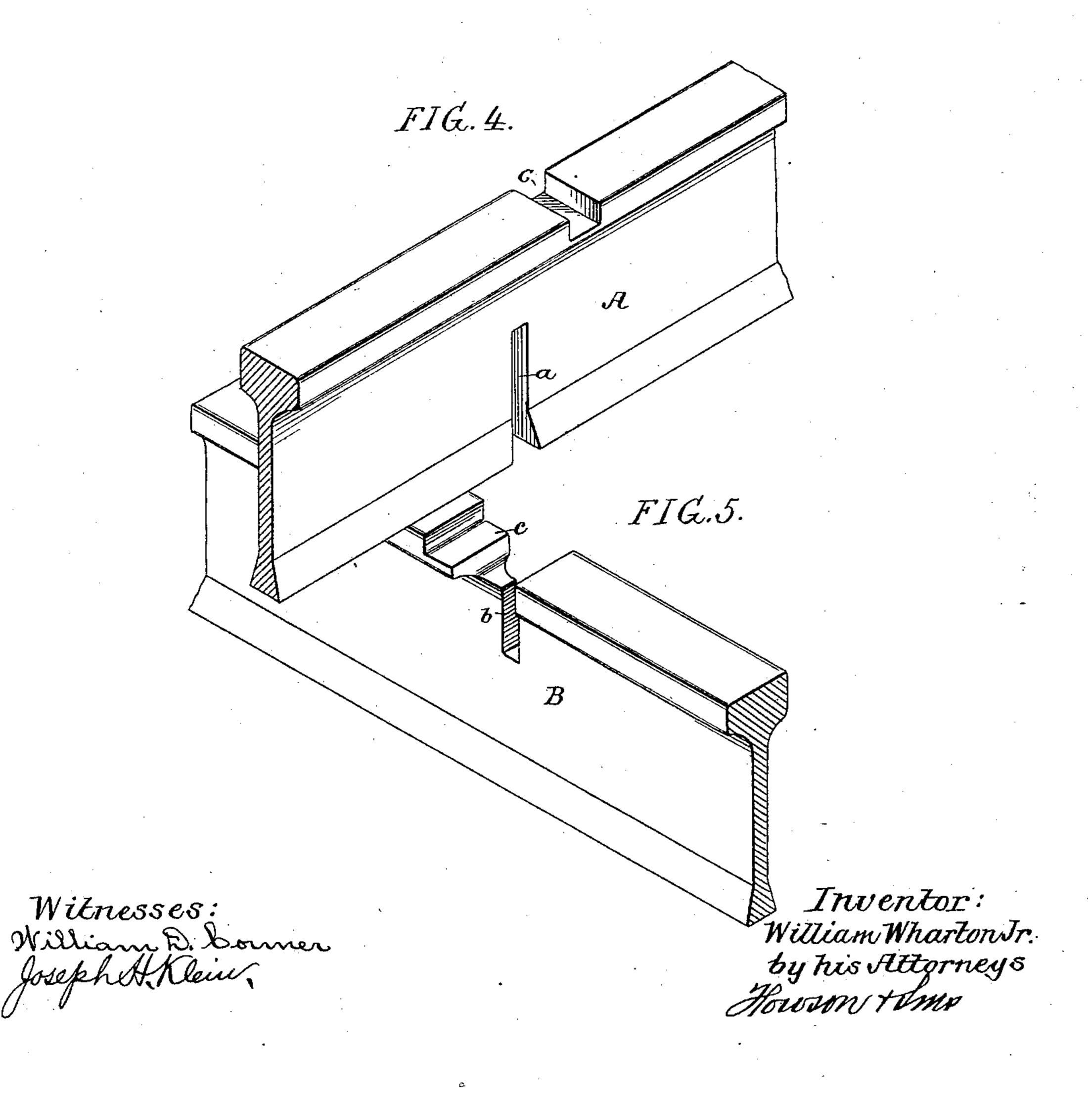
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United States Patent Office.

WILLIAM WHARTON, JR., OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO WILLIAM WHARTON, JR., & CO., (LIMITED,) OF SAME PLACE.

RAILWAY-CROSSING.

SPECIFICATION forming part of Letters Patent No. 359,116, dated March 8, 1887.

Application filed November 9, 1886. Serial No. 218,384. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM WHARTON, Jr., a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Railroad-Crossings, of which the following is a specification.

The object of my invention is to construct a railroad-crossing of four rails, thus dispensing with the usual heavy crossing-castings now used extensively in street-railways, and with the complicated steam-railway crossing formed of a number of small pieces of rails.

In the accompanying drawings, Figure 1 is a perspective view of my improved railway15 crossing. Fig. 2 is a section on the line 1 2,
Fig. 1. Fig. 3 is a section on the line 3 4,
Fig. 1; and Figs. 4 and 5 are perspective views of two rails detached from each other.

A A' are the rails of one track, B B' the 20 rails of another track crossing at an angle thereto. In the drawings I have shown the tracks as crossing at right angles; but I do not limit my invention to right-angled crossings.

The rails illustrated in the drawings have very high webs, intended more especially for street-railways, and are adapted to be fastened directly to the cross-ties by means of chairs, thus dispensing with the usual wooden string-

The rails A A' are transversely slotted on their under sides at a a to about one half their height, portions of the bases and webs being cut away. The rails B B' are transversely slotted at their upper sides at b b, portions of the heads and webs being cut away. The rails A A' and B B' are then fitted together or

"halved," the upper portion of the web of the rails A A'fitting into the slots b and the lower portion of the web of the rails B B'fitting into 40 the slots a in the rails A A', thus forming a neat and strong halved joint. Each of the rails is grooved at c, adjacent to the joint, to allow for the passage of the flanges of the carwheels.

Under each of the halved joints I prefer to place a base-plate, D, as shown in Fig. 1. This plate has tapering undercutribs d on the upper surface, between which and the dovetailed bases of the rails tapered wedges are inserted for securing the rails firmly in place and to the base-plates D.

The rails may be secured at the joints by angle fish-plates or elbow-pieces; but I prefer in all cases to use the base-plate D, whether 55 the angle fish-plates or elbow-pieces are used or not. By this construction I am enabled to form a crossing of ordinary girder or web rails without interfering with the continuity of the tracks, and at the same time a very strong, 60 neat, and simple crossing is produced, which can be readily put down and easily repaired. I claim as my invention—

The railway-girder crossing composed of four rails halved together at the joints, sub- 65 stantially as and for the purpose described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM WHARTON, JR.

Witnesses:
HARRY SMITH,
HENRY HOWSON.