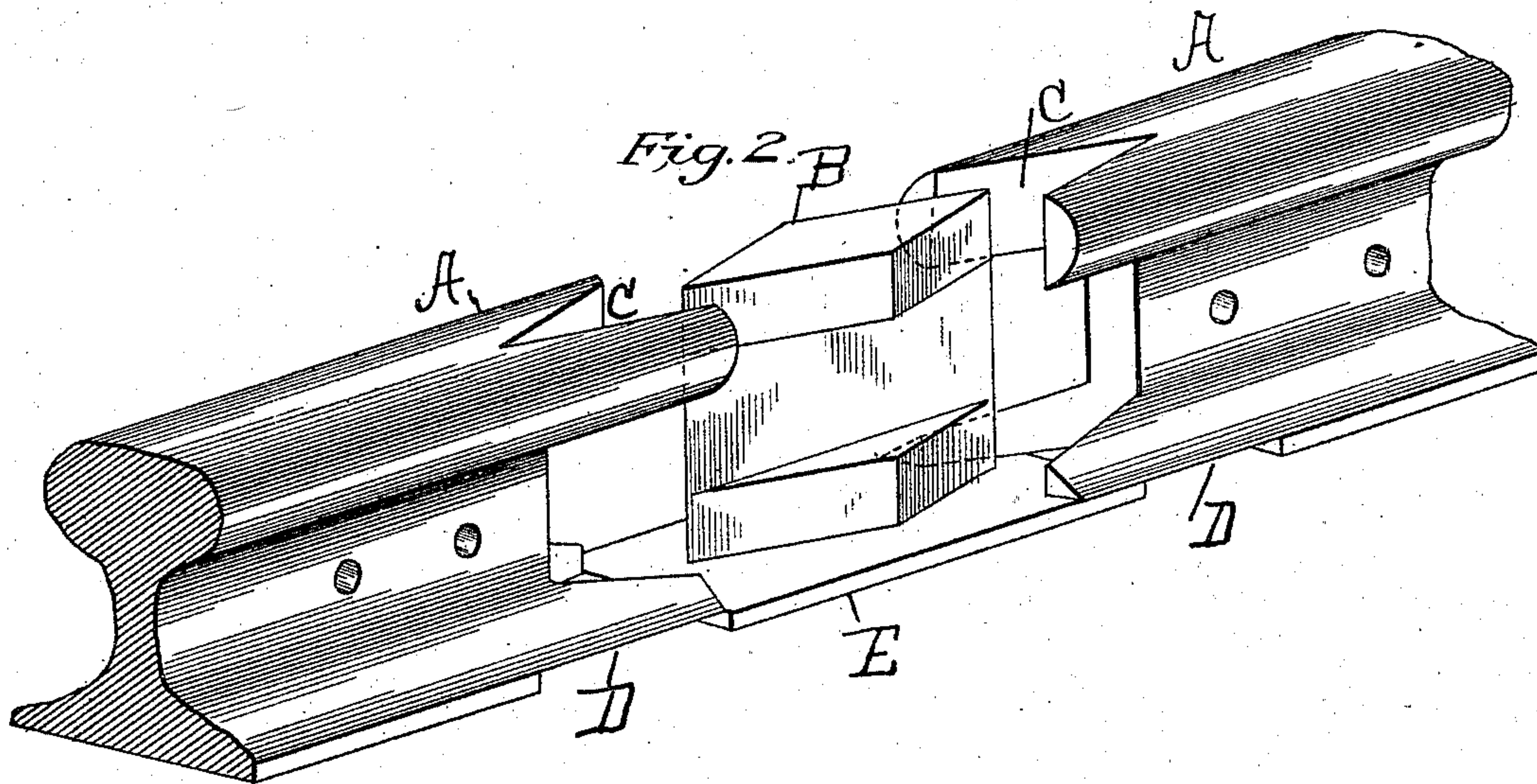
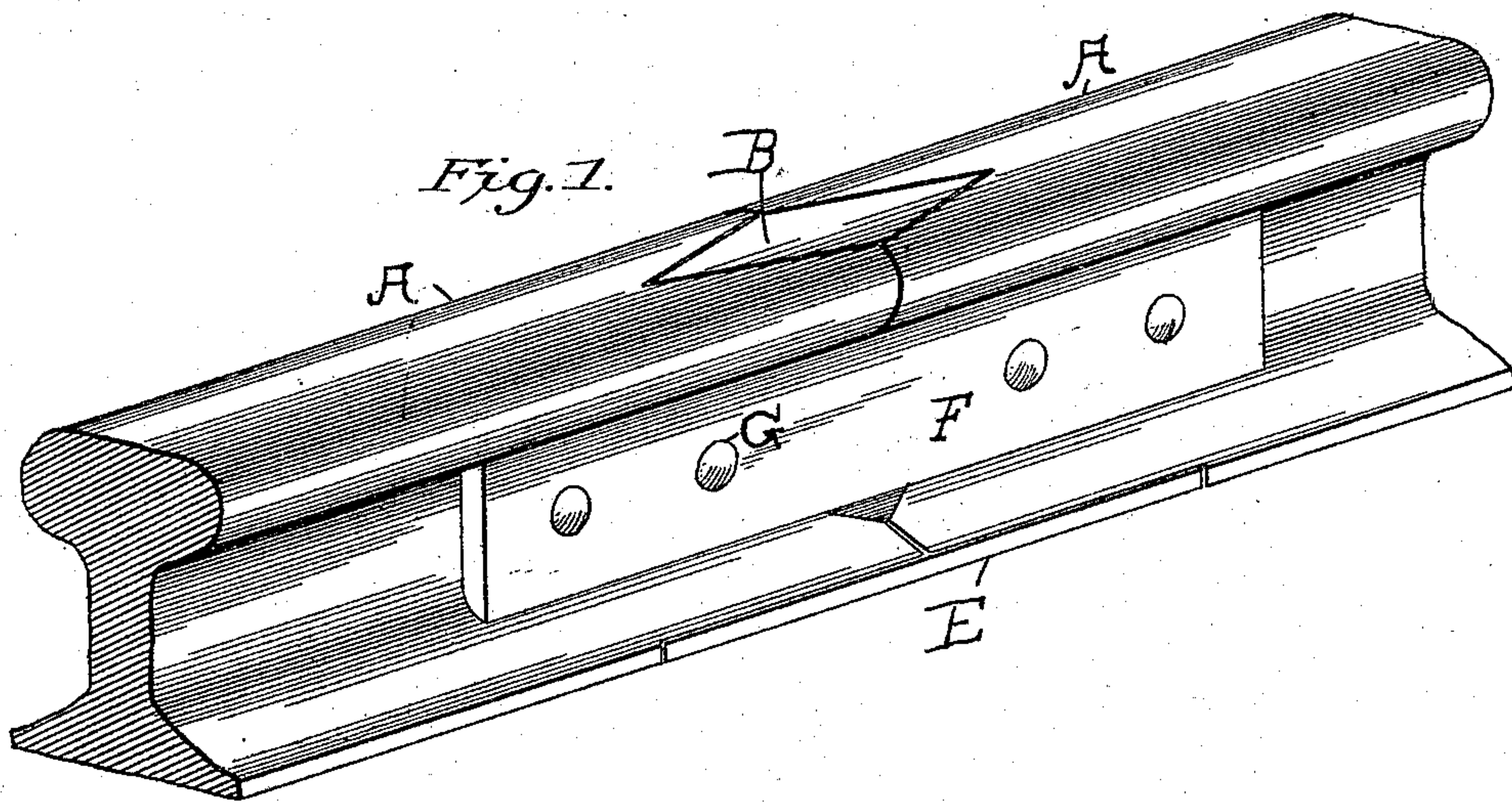


(No Model.)
C. U. AGNER & W. D. ARMSTRONG.
RAILROAD RAIL JOINT.

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RAILROAD RAIL JOINT.

No. 470,459.

Patented Mar. 8, 1892.



Witnesses
G. Goff.
H. W. A. Powell

Inventors:
Charles W. Agner
William D. Armstrong

UNITED STATES PATENT OFFICE.

CHARLES U. AGNER, OF MORANTOWN, AND WILLIAM D. ARMSTRONG, OF
CARLYLE, KANSAS; SAID AGNER ASSIGNOR TO SAID ARMSTRONG.

RAILROAD-RAIL JOINT.

SPECIFICATION forming part of Letters Patent No. 470,459, dated March 8, 1892.

Application filed July 10, 1891. Serial No. 399,106. (No model.)

To all whom it may concern:

Be it known that we, CHARLES U. AGNER, residing at Morantown, and WILLIAM D. ARMSTRONG, residing at Carlyle, in the county of Allen, State of Kansas, citizens of the United States, have invented a new and original Device for Connecting, Protecting, and Securing Rail-Joints in the Construction of Railroad-Tracks, of which the following is a specification.

Our invention relates to improvements in connecting rail-joints in the construction of railroad-tracks, in which the joints of the rails are fitted, connected, and secured by means of a diamond-shaped connection, to which the joints of the rails are dovetailed, fitted, and bolted, preserving the strength of the joints, securing them from abrasure and breakage and the track from spreading, and by means of said connection constituting one continuous rail. We obtain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a vertical representation of the joints as secured by the connection. Fig. 2 is a lateral representation of the joints as secured by the connection.

Similar letters refer to similar parts throughout both the views.

A A' represent the ends of the rails; B, the diamond-shaped block; C, the V-shaped recesses in the ends of the rails; D, the rabbets in the base-flanges of the rails, and E the flanges on the block base-plate, which enter the rabbets D in the base-flanges of the rails. F represents the fish-plates, and G G the bolts.

The joints are held to their place in the connection by means of plates on either side of said joint, fastened to and through the ends of the rails by nuts and bolts lettered A, B, C, and D, respectively.

What we claim as our invention, and desire to secure by Letters Patent, is—

The combination, with the rail ends provided with V-shaped recesses in the treads and rabbets in the base-flanges thereof, as shown, of the diamond-shaped block mounted upon a base-plate, said block and base-plate adapted to fit the recesses and rabbets, and the rails and fish-plates and bolts, substantially as set forth.

CHAS. U. AGNER.
WILLIAM D. ARMSTRONG.

Attest:

E. M. ECKLEY,
G. GOFF.