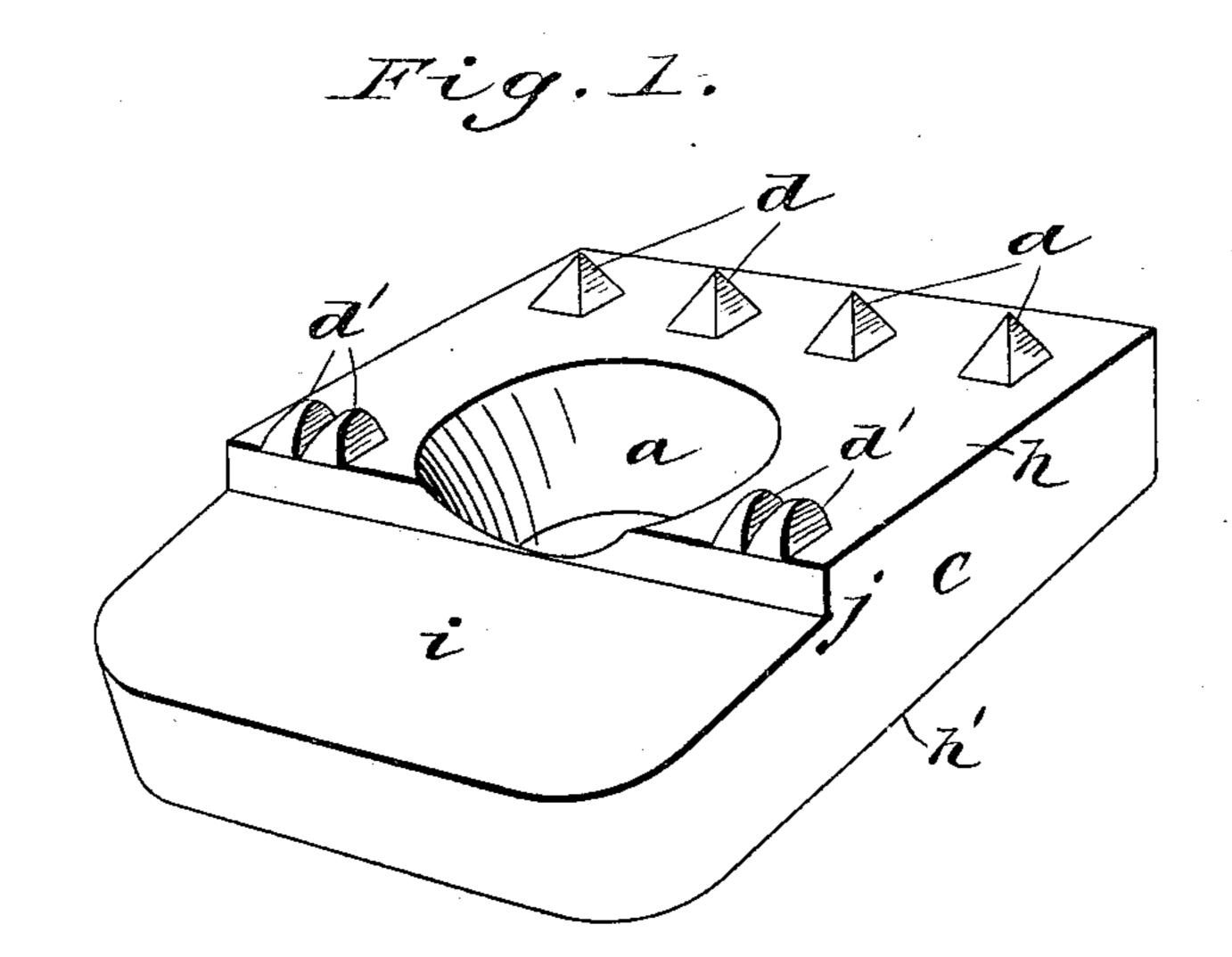
(No Model.)

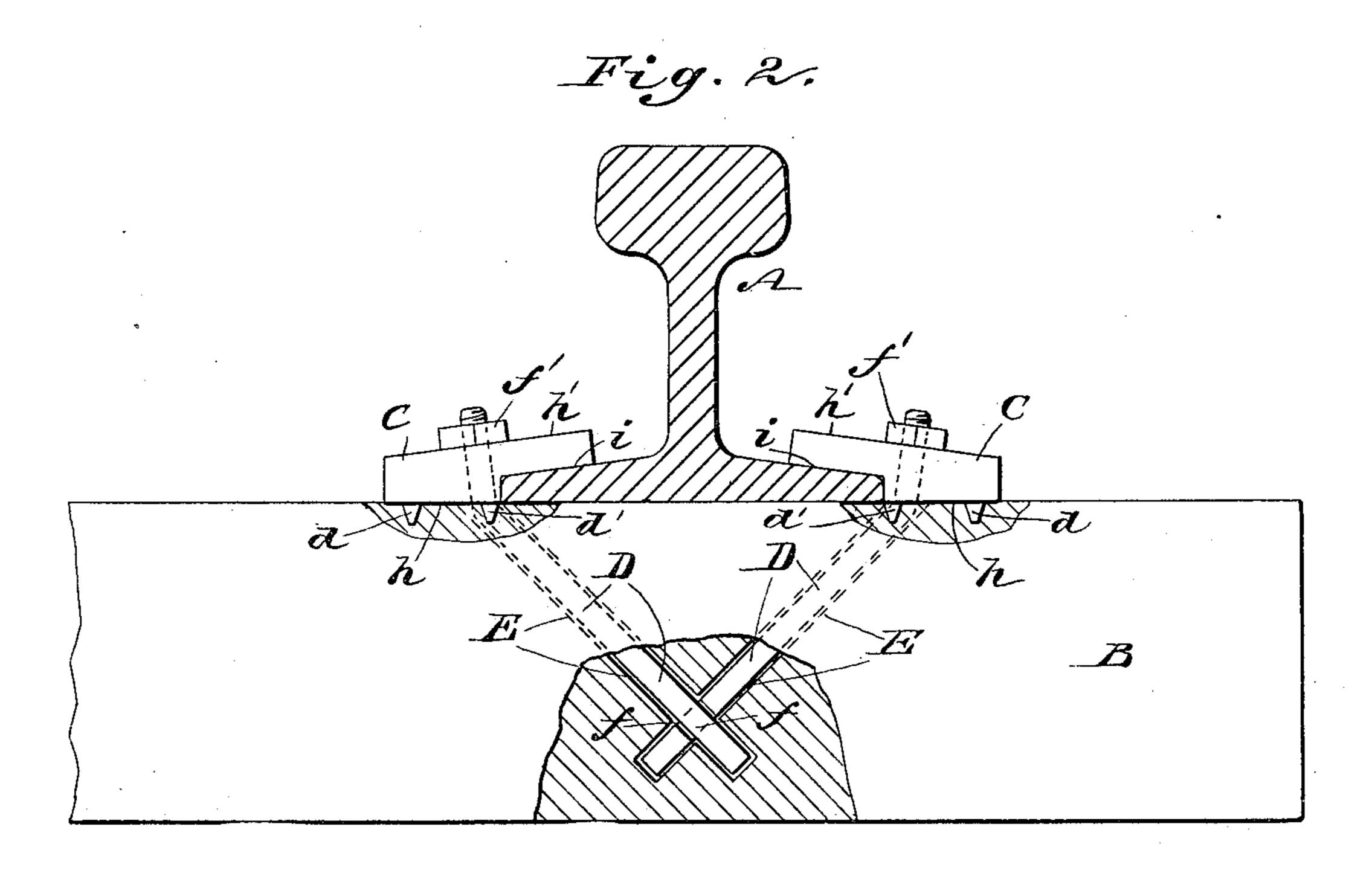
T. J. BUSH.

RAILWAY CLAMP PLATE.

No. 373,641.

Patented Nov. 22, 1887.





WITNESSES: 6. Sedgwick

INVENTOR:

BY

ATTORNEYS.

United States Patent Office.

THOMAS J. BUSH, OF LEXINGTON, KENTUCKY.

RAILWAY CLAMP-PLATE.

SPECIFICATION forming part of Letters Patent No. 373,641, dated November 22, 1887.

Application filed February 8, 1887. Serial No. 226,947. (No model.)

To all whom it may concern:

Be it known that I, Thomas J. Bush, of Lexington, in the county of Fayette and State of Kentucky, have invented a new and Im-5 proved Railway Clamp-Plate, of which the following is a full, clear, and exact description.

The invention consists of the special construction of the plate and of the combination to therewith of interlocking bolts inserted into diagonal intersecting holes made in the crosstie, as disclosed in my Patent No. 257,287, dated May 2, 1882.

Reference is to be had to the accompanying 15 drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a perspective view of my new and improved railway clamp plate; and Fig. 20 2 shows a pair of plates applied to a railwayrail and cross-tie in accordance with my invention, the tie being broken away.

A represents the rail held to the cross tie B by the clamp-plates C and bent bolts D, passed 25 through the openings a in the plates and inserted into diagonal intersecting holes E, made in the cross-tie. The lower ends of the bolts are notched at f and interlock with each other within the tie, and are provided at their 3c outer ends with the nuts f'f', the same as in my above-mentioned patent.

The clamp-plates C are duplicates of each other, each being formed upon its under surface with one or more studs or penetrating- | C. Sedgwick.

points, d, to embed in the tie, and thus pre- 35 vent the plate from moving upon the tie. I prefer to form a row of points or studs, d, at or near the outer edge of the plate, and also to form a pair of studs, d', each side of the opening a near the flange of the rail. The opening a_{40} through the plate is by preference countersunk from the under surface of the plate, to permit the free insertion of the bent bolt D, and the lower surface, h, on which the penetrating points or studs are formed, is flat, to set 45 squarely upon the tie. The upper surface, h', of the plate is slightly inclined, as shown in Fig. 2, so that when the nuts f' are turned home upon the bolts they will exert a drawing action upon the plates toward the rail. 50 Near the center of the plate is formed an offset, j, to form a clearance for the flange of the rail, and from this offset the plate is slightly inclined at the under surface, as shown at i, to fit the pitch of the upper surface of the 55 flange of the rail, as shown clearly in Fig. 2.

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

The plate C, formed with the opening a, 60 countersunk from the under surface of the plate to permit the passage through the plate of the bent bolt D, substantially as described.

THOMAS J. BUSH.

Witnesses:

H. A. West,