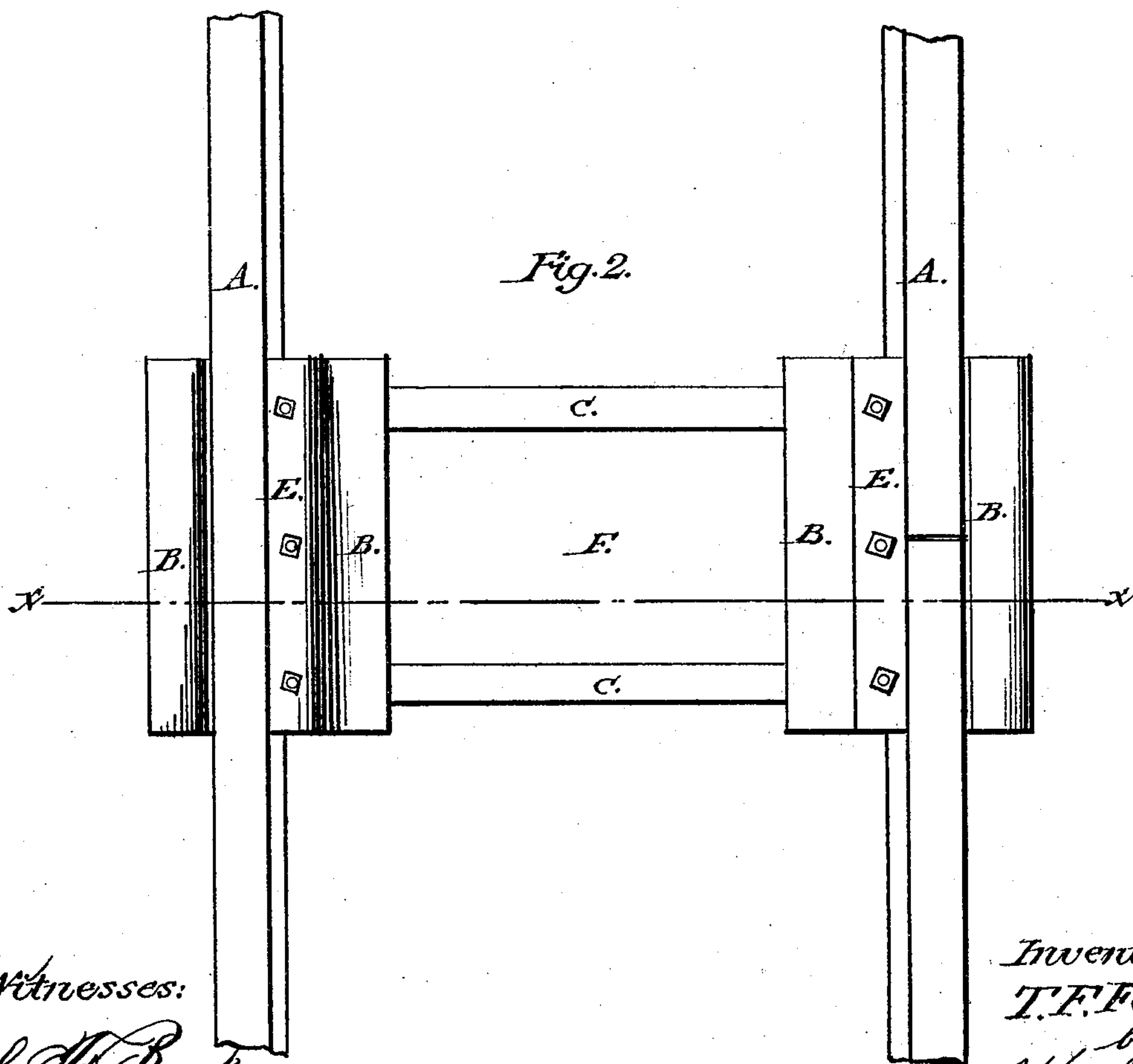
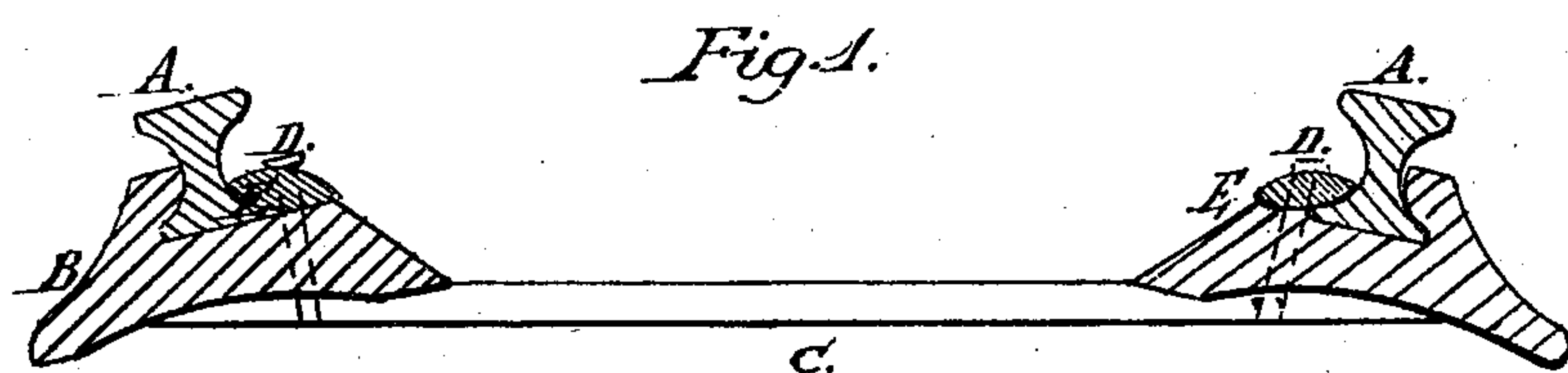


T. F. Fouts,

Railway Chair.

No. 89397.

Patented Apr. 27, 1869.



Witnesses:

*John A. Perry
J. A. Mc Grath*

Inventor:

*T. F. Fouts
by
Wm. H. Co
attorney*

United States Patent Office.

THOMAS F. FOUTS, OF ALBIA, IOWA.

Letters Patent No. 89,397, dated April 27, 1869.

RAILROAD-CHAIR AND TIE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, THOMAS F. FOUTS, of Albia, in the county of Monroe, and State of Iowa, have invented a new and improved Railroad-Chair and Tie; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

This invention relates to a new and improved method of constructing railroads, and consists in the peculiar form of the chairs and tie, and the manner of securing the rail thereto, and of preventing the spreading of the rails, and settling of the track.

In the accompanying plate of drawings—

Figure 1 represents a vertical cross-section of fig. 2, through the line *x x*.

Figure 2 is a top or plan view of a section of railroad-track constructed according to my invention.

Similar letters of reference indicate corresponding parts.

A represents the rail, which does not differ materially from that ordinarily used.

B is the chair.

C represents wrought-iron bars, or cross-ties, by which the chairs are connected together by means of the bolts D D.

E represents clamps, which rest on the chairs, and clamp down the rail, and secure it in the chair, as seen in the drawing.

The bolts D D pass up through the bars *c*, the chair and the clamp holding them firmly together.

F represents a wooden plank, or board, attached to the bottoms of the chairs by bolts or screws, to aid in preventing the settling of the track on sandy or swampy ground.

The chairs are sufficiently long to properly support the ends of the rails, and to allow of a broad bottom-surface, to sustain them on soft ground.

By this arrangement, a permanent track may be laid on level ground, at a cheap rate, and in the most rapid manner.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

The combination of the chair B, clamp E, tie-bars C, and plank, or board F, with the rail A, when the same are constructed and arranged substantially as and for the purposes herein shown and described.

THOMAS F. FOUTS.

Witnesses:

S. E. PRICE,
SILAS R. RALL,
DAN'L ANDERSON.