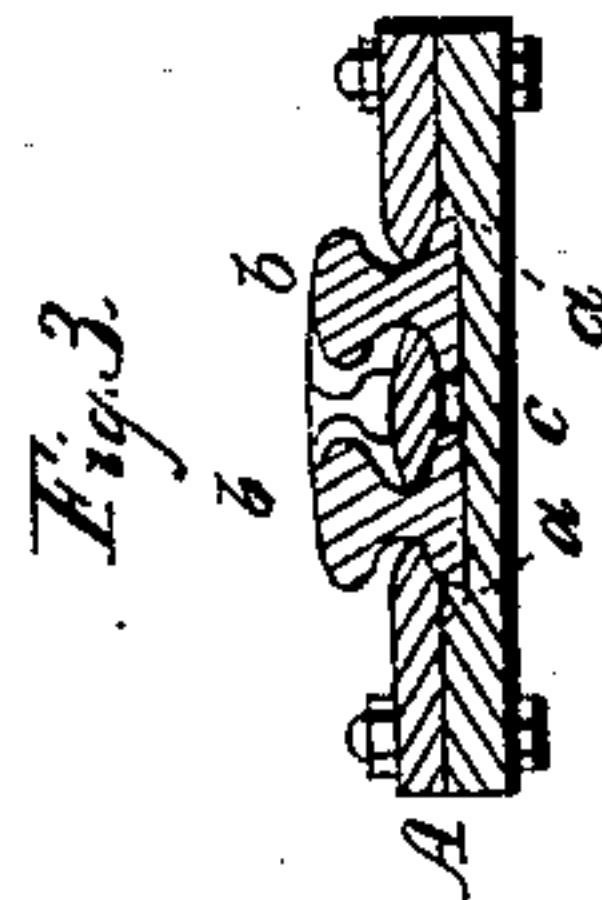
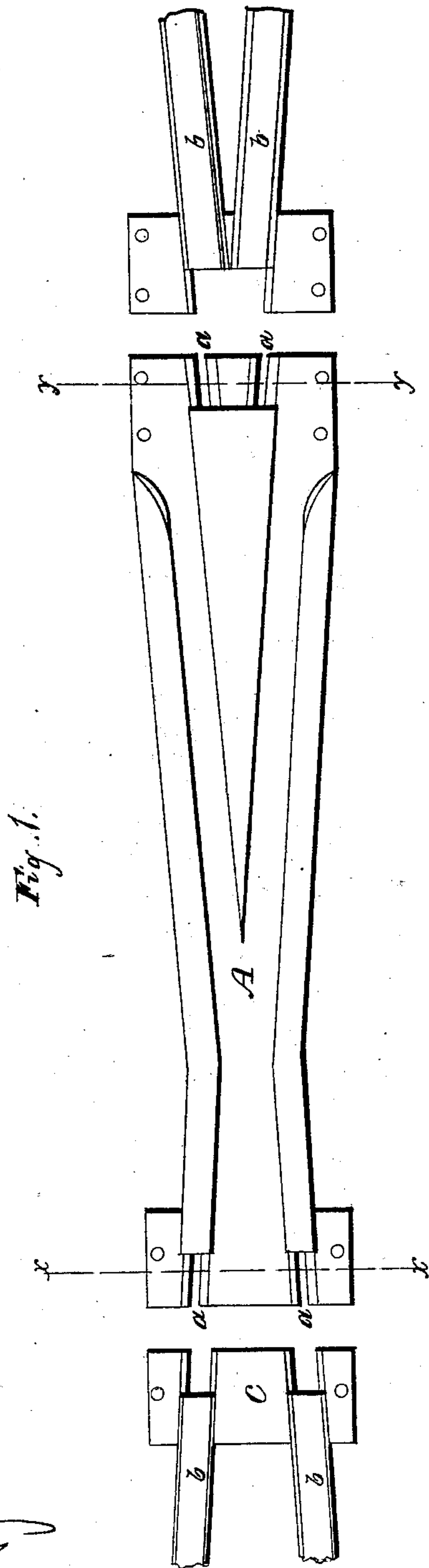


G. WESTINGHOUSE, Jr.
Railway Frog.

No. 76,365.

Patented April 7, 1868.



Witnesses.

Hermann Groz
Gustav Berg

Inventor.

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United States Patent Office.

GEORGE WESTINGHOUSE, JR., OF SCHENECTADY, NEW YORK.

Letters Patent No. 76,365, dated April 7, 1868.

IMPROVED RAILWAY-FROG.

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, GEORGE WESTINGHOUSE, Jr., of Schenectady, in the county of Schenectady, in the State of New York, have invented a new and useful Improvement in Railroad-Frogs; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which drawing—

Figure 1 represents a plan or top view of this invention when the parts are detached.

Figures 2 and 3 are transverse sections thereof taken respectively in the planes indicated by the lines *x x* and *y y*, fig. 1.

Similar letters indicate corresponding parts.

This invention relates to a railway-frog, one or both ends of which are slotted or dove-tailed to receive the necks of the rails, and my improvement consists in the arrangement of a chair under each of the dove-tailed ends of the frog, said chair being provided with one or two recesses to support the rails, and with suitable holes to receive bolts, in such a manner that said chairs can readily be bolted to the frog, and that by said chairs the rails are firmly supported; and, furthermore, if the rails should differ in thickness or height, they can be readily adapted to the frog simply by changing the chairs, which form a comparatively small part of the whole frog.

A represents the body or main part of my frog, which may be made of cast iron, steel, or any other suitable material. The ends of this frog are provided with slots or dove-tails, *a*, to receive the necks of the rails *b*, as clearly shown in the drawing. Instead of securing the rails to the frog by bolts passing through in a transverse direction, or by straps or other devices which are difficult to apply, I use chairs, *c*, which are secured to the under surfaces of the frog at its ends in laying down the frog, the bolts or spikes being placed right down into the tie. Each of these chairs is provided with a recess to receive and support the rails, and if desired it may be made to extend from one cross-tie to the other. By these means the rails are firmly supported, and they are not liable to be thrown out of their proper position by the passing trains, and, furthermore, the frog can be readily adapted for rails of different size simply by changing the chairs, different sizes of which may be kept on hand, and, since the chairs form only a comparatively small portion of the frog, this change can be effected with little expense. By these means a railway-frog is obtained which forms a firm support for the rails, and which readily adapts itself to rails of different size.

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

The arrangement of a chair, *c*, under one or both ends of the frog A, substantially as and for the purpose described.

GEO. WESTINGHOUSE, JR.

Witnesses:

W. HAUFF,
G. BERG.