# W. KATTÉ.

## Splice-Plates for Metallic Truss Bridges.

No. 166,387. Patented Aug. 3, 1875.

Fig. 1.

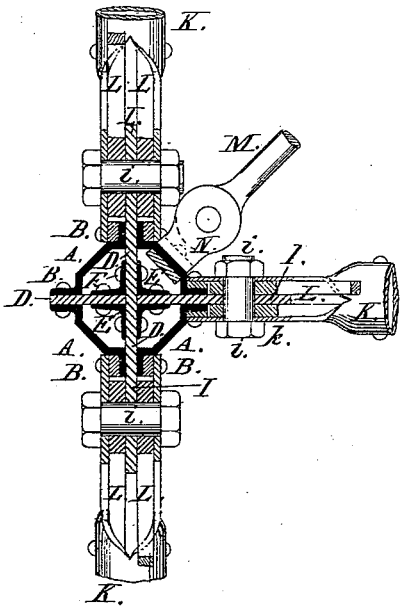



Fig. 2.

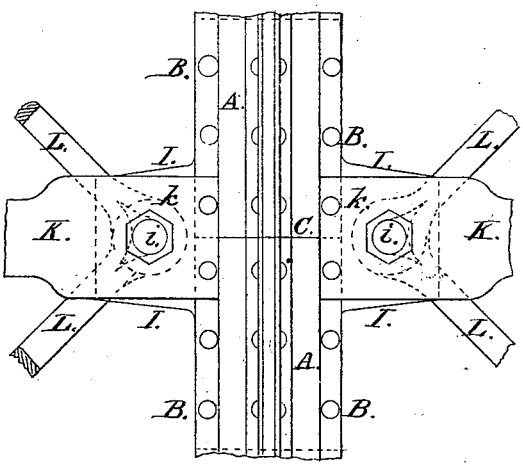



Fig. 3

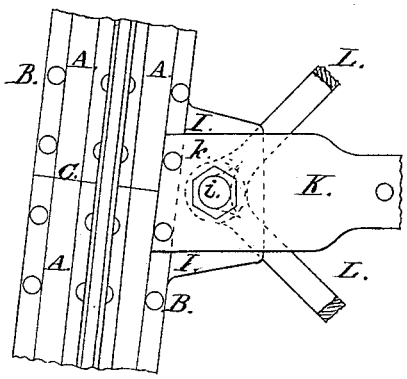
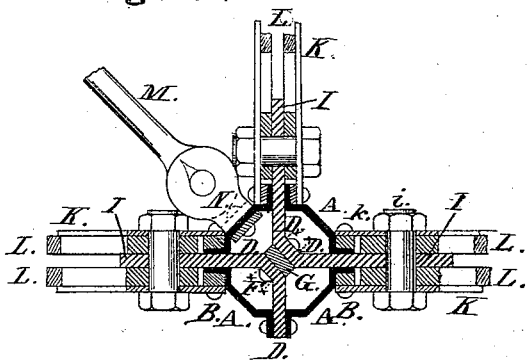



Fig. 4.

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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN SPLICE-PLATES FOR METALLIC TRUSS-BRIDGES.

Specification forming part of Letters Patent No. **166,387**, dated August 3, 1875; application filed June 21, 1875.

*To all whom it may concern:*

Be it known that I, WALTER KATTÉ, of St. Louis, St. Louis county, State of Missouri, have invented a certain new and useful Improvement in Splice-Plates for Metallic Trestle-Work, of which the following is a specification:

My improvement consists in a splice-plate cruciform in transverse section, and which breaks the joint of the metallic post or column, and which has lugs or eye-plates extending outside of the post for the attachment of the stays and braces.

In the drawings, Figure 1 is a horizontal section through the splice or joint. Fig. 2 is a side elevation of a splice or joint in a central post. Fig. 3 is a side elevation of a joint in a side post. Fig. 4 is a transverse section, showing a modification of the splice-plate.

The post or column is built up of compound angle-plates A, which are secured together at the edges by rivets B. The joint or splice of the post is shown at C. The splice-plate may consist of a number of radial plates, D D D, secured together at the center by two or four angle-irons, E E, and rivets F, as shown in Fig. 1, or may consist of angle-plates D D, with a central distance-piece, G, between them, and rivets F passing diametrically through the plates D D and the angle-piece. In this form it is preferable that the angular distance *x x* should be just large enough to accommodate the rivet-heads. The plates A are secured at the edges to the splice-plates by the rivets B passing through both. At I I are shown extensions of the splice-plate, which form ears or lugs for the attachment of the stays K and braces L. The horizontal diagonal braces are shown, at M, connected directly to the sides of the post-plates A by the eye-brackets N.

The lugs I may project from the post in one, two, three, or four directions, according to the position of the post or splice C in relation to the other parts of the structure to which connection is made.

The stays K, as shown, are tubular, but may be of any other suitable strut-section. They end in two parallel ears, *k*, which are riveted directly to the edges of the plates A, and connected to the lugs I by bolts *i*, which pass through the end eyes of the braces L, as well as through the strut-ears and lugs I.

I claim as my invention—

1. The splice-plate with four radial wings, D, secured in the joint or splice of the post, substantially as set forth.

2. The splice-plate, as described, with extensions I from the wings D, forming lugs for the attachment of the stays and braces, substantially as set forth.

WALTER KATTÉ.

Witnesses:

SAML. KNIGHT,

CHARLES PICKLES.