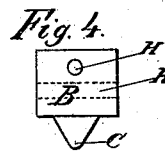
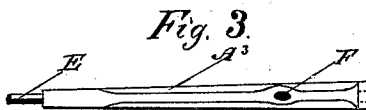
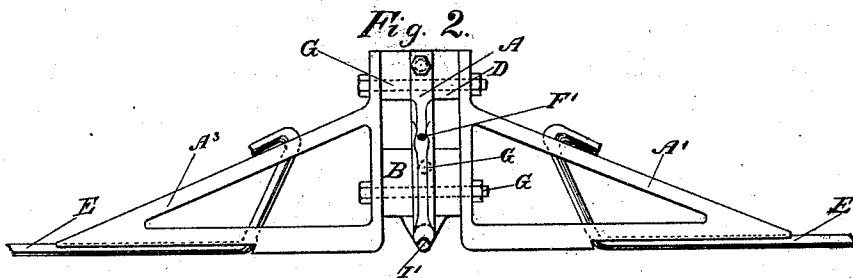
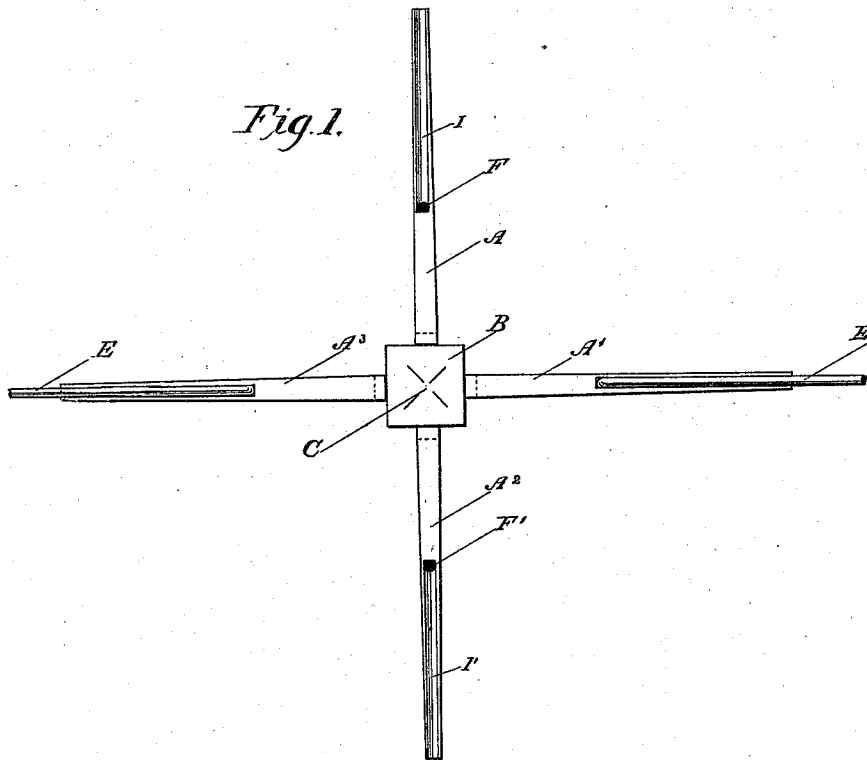


(No Model.)

J. C. KINNEY.
TROLLEY WIRE CROSSING.

No. 550,683.

Patented Dec. 3, 1895.



Witnesses
Wm. Kretz
E. J. Russell

John C. Kinney, Inventor,
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UNITED STATES PATENT OFFICE.

JOHN C. KINNEY, OF SAN ANTONIO, TEXAS.

TROLLEY-WIRE CROSSING.

SPECIFICATION forming part of Letters Patent No. 550,683, dated December 3, 1895.

Application filed April 17, 1895. Serial No. 546,097. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. KINNEY, a citizen of the United States, residing at San Antonio, in the county of Bexar and State of Texas, have invented a new and useful Improvement in Trolley-Wire Crossings, of which the following is a specification.

My invention relates to an improvement in trolley-wire crossings in which four separate brackets or arms, each carrying the trolley-wire, are connected in pairs by bolts to a core of insulating material; and the object of my invention is to produce a trolley-wire crossing in which the bottom part of the cross on which the trolley runs is on a level with the trolley-wire, whereby all hinderances to the trolley are prevented. I attain this object by the device illustrated in the accompanying drawings, in which—

Figure 1 is a bottom view of the entire crossing. Fig. 2 is a side view showing three brackets or arms. Fig. 3 is a top view of one separate bracket or arm, and Fig. 4 is a side view of the core or insulator.

Similar letters refer to similar parts throughout the several views.

A¹ A² A³ are four triangular brackets, of brass, having on the bottom side half-way from the exterior to the center end a groove I I' and on the end of the groove a hole F F', which hole extends from the bottom part through the brace of the bracket. The groove I and the hole F are for the reception and securely fixing of the trolley-wire E to the bracket, as shown by the drawings. The other half part of the bottom side of the arm is so formed that the cross-section represents the

semicircle of the trolley-wire and forms with the same a continuous smooth line.

B is a block or core, of vulcanized fiber or other insulating material, the bottom part of which forms a cone with rounded end C of the size of the trolley-wire. The block or core is square for crossings at a right angle, or triangular for switches, or any other shape as the crossing requires. Two holes H go through the block for fixing, by bolts G, the brackets or arms A to the block or core B. These bolts make at the same time connection for the electric current to each pair of brackets or arms. Above this block or core B is another block D of insulating material and of the same shape, having two independent bolt-holes for fixing, by bolts G, the brackets or arms A to the same. This block is for strengthening the cross.

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

In a trolley-wire crossing the separate triangular shaped brackets, or arms A, bolted to an insulating block, or core B, with a rounded cone at bottom part, of the same size as the trolley-wire, and having two independent bolt holes H, for bolting the brackets or arms, in pairs, insulated from each other, to the insulating block or core, thus giving a continuous current without interfering with the cross line, all substantially as described.

JOHN C. KINNEY.

Witnesses:

R. S. KINNEY,
C. C. KINNEY.