

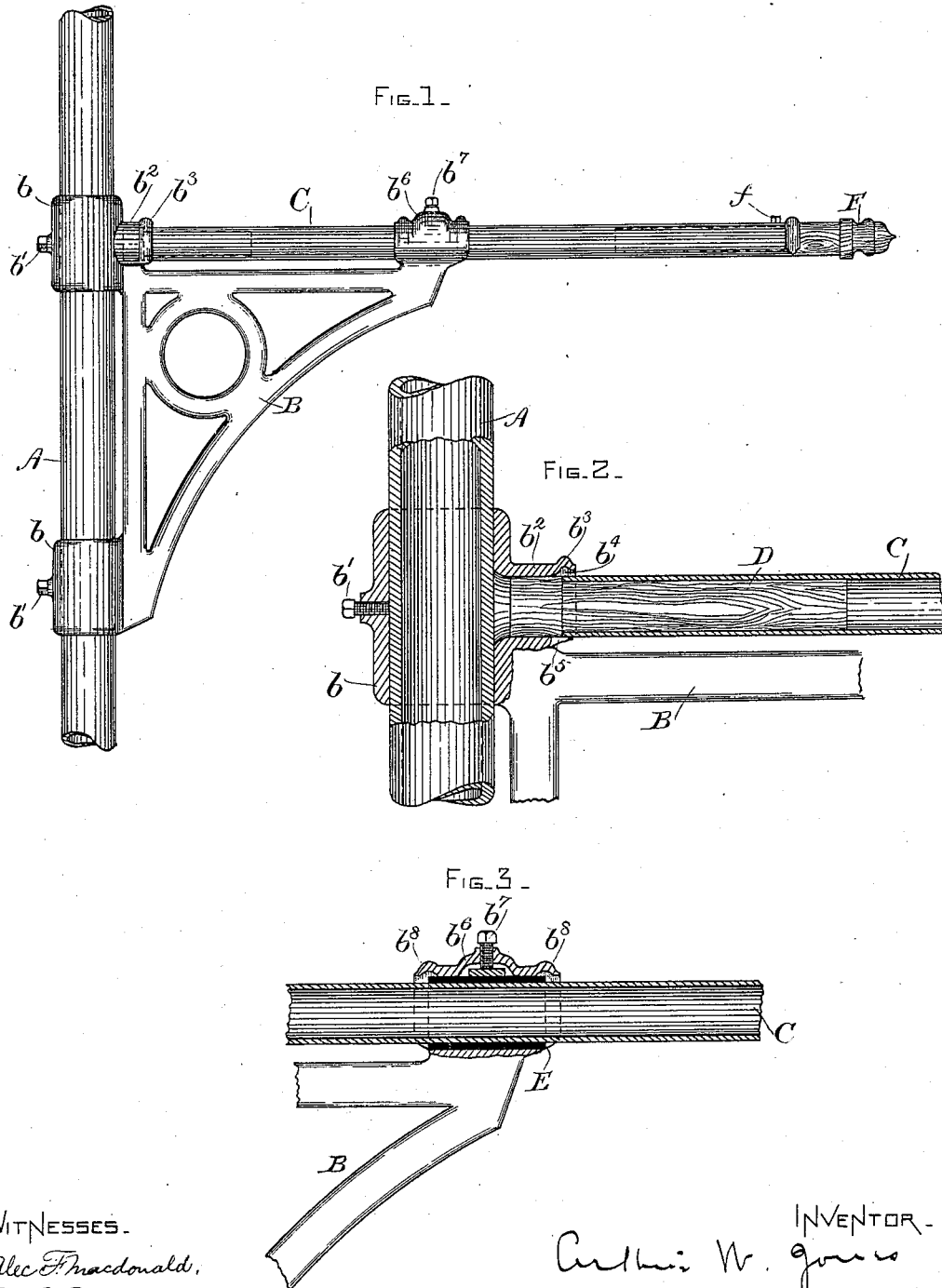
(No Model.)

A. W. JONES.

# WIRE SUPPORT FOR OVERHEAD ELECTRIC RAILWAYS.

No. 522,216.

Patented July 3, 1894.



WITNESSES.

Alec F. Macdonald,  
all done

INVENTOR -

Arthur W. Jones  
By Bentley + Blodgett  
also

# UNITED STATES PATENT OFFICE.

ARTHUR W. JONES, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE THOMSON-HOUSTON ELECTRIC COMPANY, OF CONNECTICUT.

## WIRE-SUPPORT FOR OVERHEAD ELECTRIC RAILWAYS.

SPECIFICATION forming part of Letters Patent No. 522,216, dated July 3, 1894.

Application filed May 21, 1892. Serial No. 433,822. (No model.)

*To all whom it may concern:*

Be it known that I, ARTHUR W. JONES, a citizen of the United States, residing at Boston, county of Suffolk, State of Massachusetts, have invented a certain new and useful Improvement in Overhead Electric Railways, of which the following is a specification.

My invention relates to overhead electric railways, and its object is to improve the construction of the bracket and arm which are used to support the trolley wire, and especially to provide an efficient mode of insulating the arm from the bracket and pole.

The invention consists in certain details of construction as hereinafter described and particularly pointed out in the claims.

In the drawings, Figure 1 is a side elevation of a bracket and arm embodying my invention. Fig. 2 is a vertical longitudinal section of the joint between the bracket and the pole, and Fig. 3 is a vertical longitudinal section of the joint between the bracket and the arm.

The pole A is of any suitable construction, and may be tubular, as shown.

The bracket B is of any suitable design, being preferably that of a right angle triangle, as illustrated, with one edge vertical and another horizontal. The vertical edge is provided with a sleeve or sleeves *b* encircling the pole A, and vertically adjustable thereon by means of a set screw *b'*. The bracket is provided on its upper edge, preferably at the point where it joins the sleeve *b*, with a tubular socket *b<sup>2</sup>*, the axis of which is in the plane of the bracket, and is parallel with the horizontal edge thereof. A bead *b<sup>3</sup>* surrounds the mouth of this socket. It is annularly recessed on the inside at *b<sup>4</sup>*, and the lower portion of its circumference is cut away at *b<sup>5</sup>*.

The arm C may be a metallic tube, as shown. Its inner end is connected with the bracket by a plug or dowel D of wood or other insulating material driven tightly into the tube and projecting therefrom far enough to have a firm bearing in the socket *b<sup>2</sup>*. The end of the tube C is received within the beaded mouth of the socket, but is not in con-

tact therewith. The bead serves as a watershed to prevent moisture from reaching that part of the wood exposed between the arm and the sleeve, and forming a short circuit.

The outer end of the bracket carries an eye *b<sup>6</sup>*, through which passes the arm C. A sleeve E of insulating material is interposed between the eye *b<sup>6</sup>* and the arm, which is clamped by a set screw *b<sup>7</sup>*. At each end of the eye *b<sup>6</sup>* is a water-shed *b<sup>8</sup>* similar to the one on the socket *b<sup>2</sup>*, and projecting beyond the ends of the sleeve E.

A plug F, of insulating material, is driven into the outer end of the arm C and serves to support the trolley wire. It may be secured by a set screw *f*.

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

1. The combination with a pole, of a bracket adjustably secured thereon, and having a socket provided with a water-shed, and an eye in line with said socket and having a water-shed at each end, substantially as set forth.

2. The combination with a pole, of a bracket having sleeves encircling said pole, a socket, and an eye in line therewith, an arm running through said eye and having a dowel of insulating material connecting it with the socket, and a sleeve of insulating material interposed between the arm and the eye, substantially as described.

3. The combination with a metallic bracket having an eye provided at each end with a water-shedding bead, of a metallic arm passing through said eye, and an insulating sleeve interposed between said arm and said eye, and terminating inside of the water-shed, substantially as described.

In witness whereof I have hereto set my hand this 18th day of May, 1892.

ARTHUR W. JONES.

Witnesses:

D. MAZENET,  
MAURICE OLEDIN.