

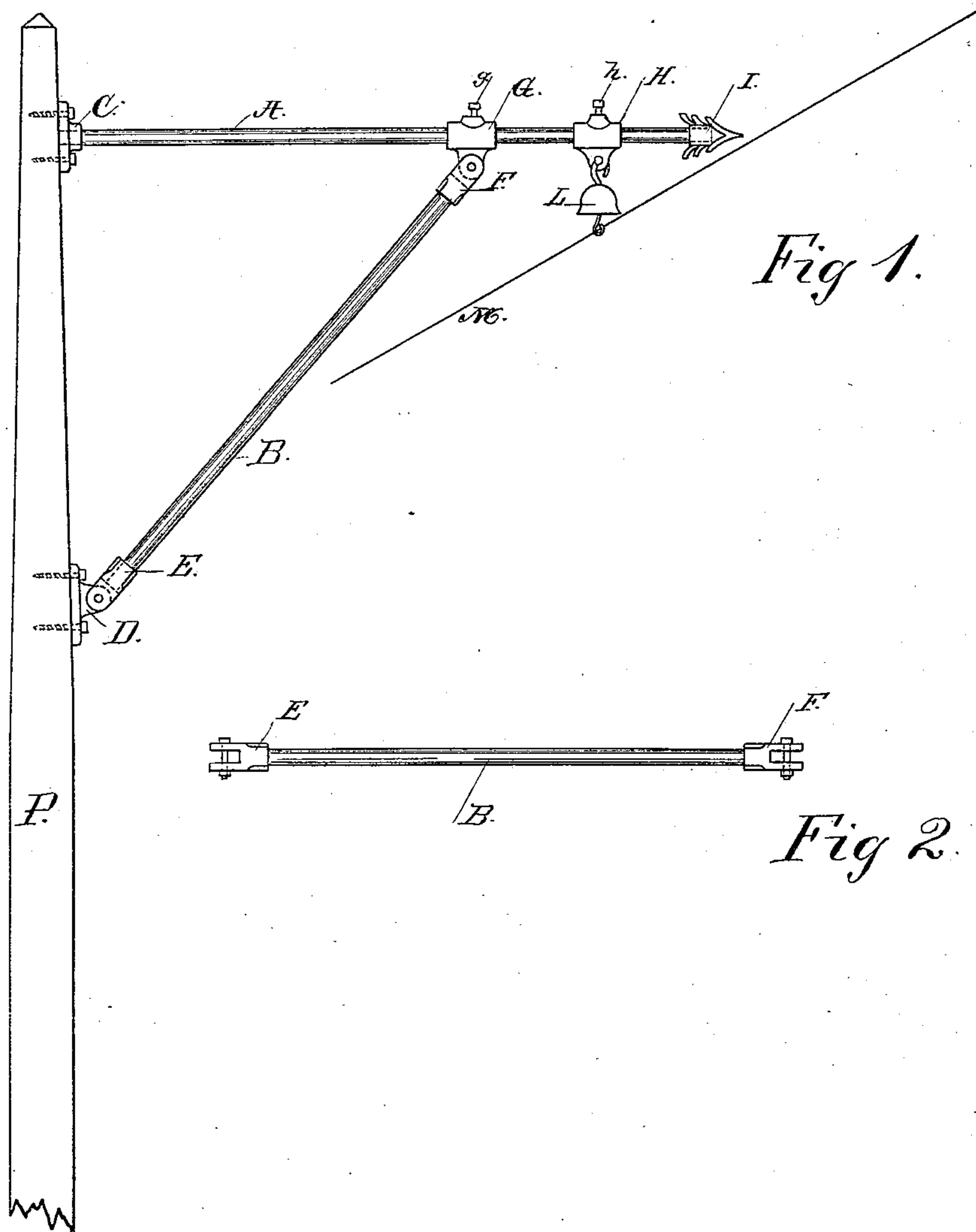
(No Model.)

J. A. DUGGAN.

BRACKET FOR SUPPORTING ELECTRIC CONDUCTORS.

No. 465,365.

Patented Dec. 15, 1891.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN A. DUGGAN, OF QUINCY, MASSACHUSETTS.

## BRACKET FOR SUPPORTING ELECTRIC CONDUCTORS.

SPECIFICATION forming part of Letters Patent No. 465,365, dated December 15, 1891.

Application filed July 15, 1891. Serial No. 399,619. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN A. DUGGAN, a citizen of the United States, residing at Quincy, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Brackets for Supporting Electric Conductors; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to brackets for electric conductors.

In Letters Patent to me, No. 418,704, dated January 7, 1890, I have shown and described a bracket consisting of two rods, one horizontal, from which the electric conductor is to be suspended, and the other acting as a support for the horizontal rod, each made in two parts, one sliding within the other, the purpose being to adjust the horizontal rod so as to have it longer or shorter, as may be desired. That invention is more especially adapted for cases where it is desired to vary the length of the horizontal rod, so that it shall extend a greater or less distance from the pole to which it is attached.

My present invention has for its object a bracket in which the horizontal rod may be readily elevated or depressed; and it consists in making each rod of one piece—that is, omitting the telescoping feature of my former invention, and in providing each end of the supporting-rod with a joint, so that the angle at which it is placed with respect to the horizontal rod may be changed. At its upper end the supporting-rod is jointed onto a collar adapted to slide along the horizontal rod. By this means the horizontal rod may be elevated or depressed within moderate limits, for that purpose a set-screw upon the upper part of the collar being loosened, so that it may be moved toward or away from the pole to which the rods are attached, the joints on the ends of the supporting-rod allowing the supporting-rod to adapt itself to the new position, and thus readily permitting such a movement to be made. In this manner, if the collar is

pushed toward the pole the horizontal rod may be raised, and depressed if it is pushed from it. When the rod is in the desired position, it is to be held there by the tightening of the set-screw.

In the drawings I have shown in Figure 1 an elevation of my invention attached to a pole, and in Fig. 2 a plan view of the supporting-rod detached from the pole and from the horizontal rod.

P is the pole; A, the horizontal rod; B, the supporting-rod; C, a plate connected with the rod A and attached to the pole P.

D is a plate attached to the pole P and provided with a lug which fits into a slot on the lower end of the rod B, and is secured to it by a pin, so as to form a joint.

G is a collar adapted to be slid along the rod A and kept in place by the set-screw *g*. This collar has on its under side a lug fitting into the slot F on the upper end of the supporting-rod, so as to form, with a suitable pin, a joint similar to the one above described at the lower end of rod B.

H is a collar, which can be placed at any desired point on the rod A, and is held in place by the set-screw *h*.

L is an insulator by which is suspended the electric conductor M.

I is an ornament, which may be omitted, if desired.

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

A bracket for the support of electric conductors, consisting of the horizontal rod A, the inner end of which is attached to the pole P, the supporting-rod B, attached by means of suitable joints at its lower end to the pole P and at its upper end to the collar G, the collar G, adapted to be slid along the horizontal rod A, and the set-screw *g* for holding the collar in place, substantially as and for the purpose above described.

JOHN A. DUGGAN.

Witnesses:

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