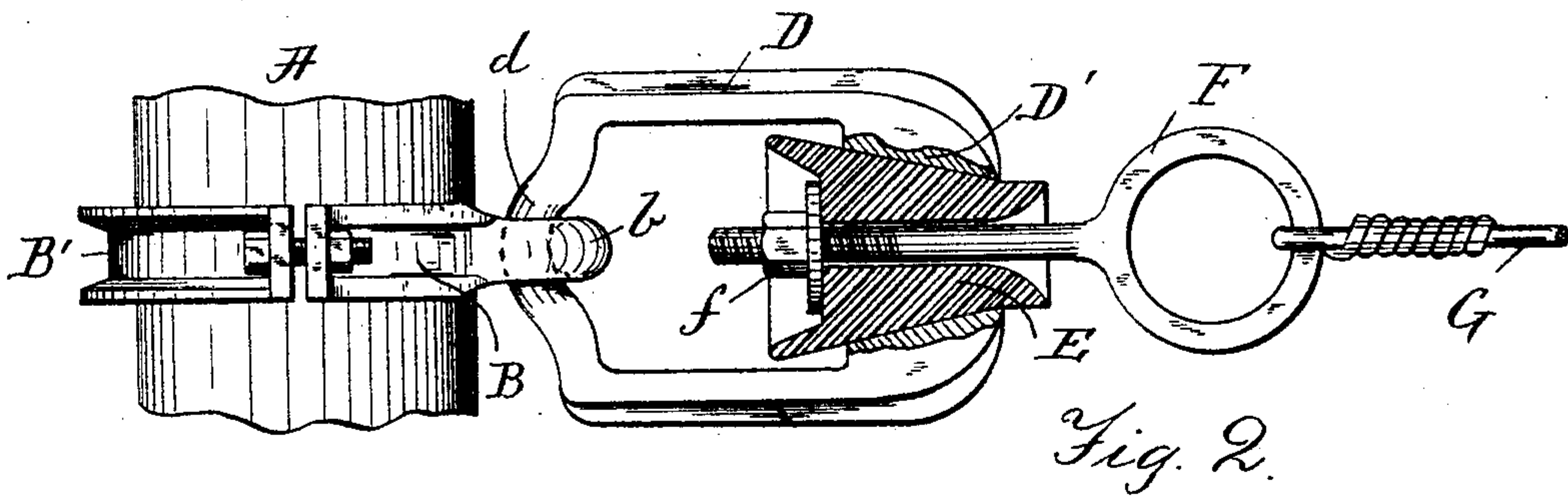
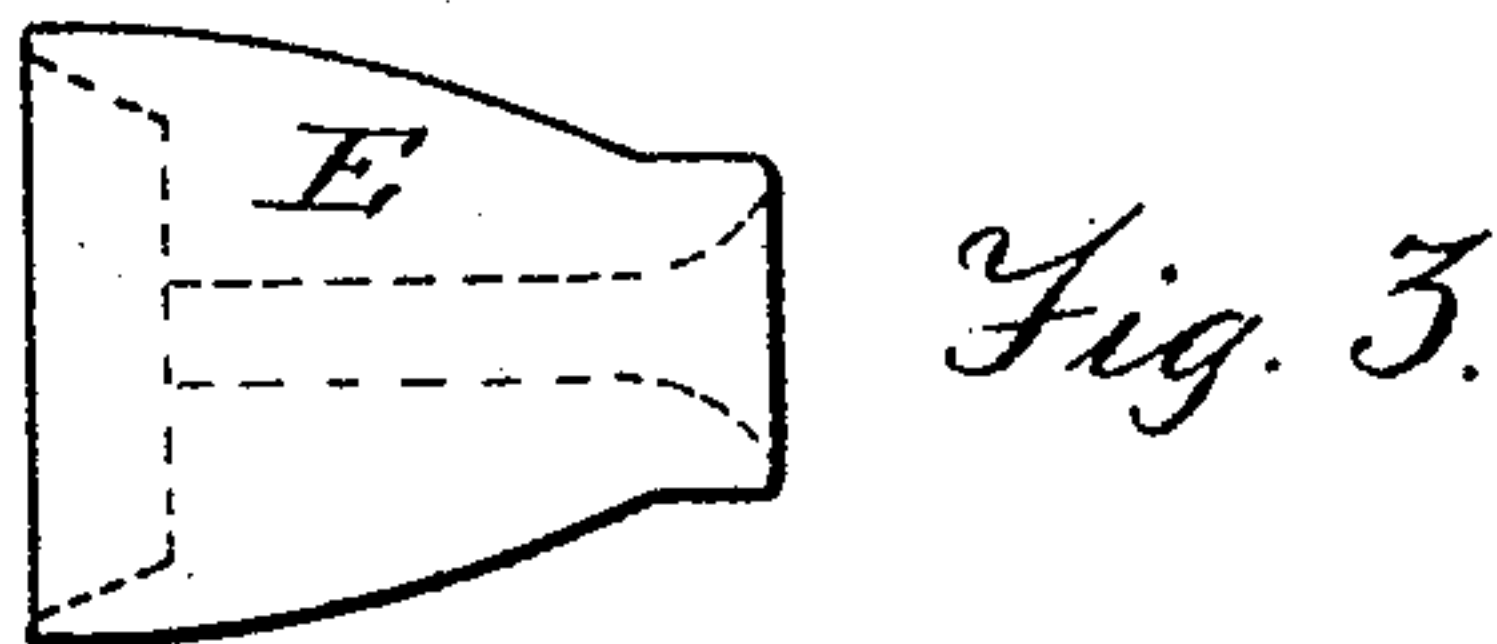
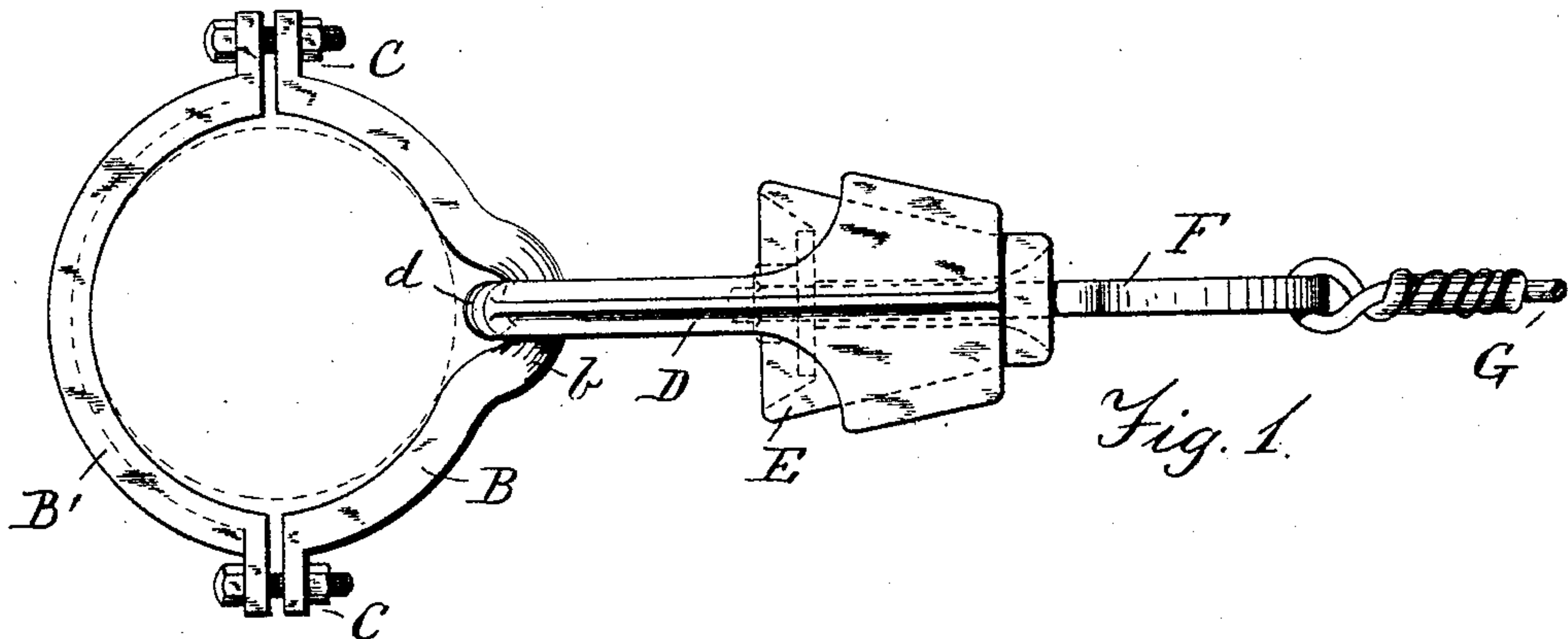


(No Model.)

W. E. BAKER & C. H. MACLOSKIE.
INSULATING CLAMP FOR SPAN WIRES.

No. 453,100.

Patented May 26, 1891.



WITNESSES
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UNITED STATES PATENT OFFICE.

WILLIAM E. BAKER AND CHARLES H. MACLOSKIE, OF BOSTON,
MASSACHUSETTS.

INSULATING-CLAMP FOR SPAN-WIRES.

SPECIFICATION forming part of Letters Patent No. 453,100, dated May 26, 1891.

Application filed January 9, 1891. Serial No. 377,231. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM E. BAKER and CHARLES H. MACLOSKIE, both citizens of the United States, and residents of Boston, in the county of Suffolk and State of Massachusetts, have jointly invented new and useful Improvements in Insulating Pole-Clamps for Span-Wires, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements in insulating pole-clamps for span-wires of the kind usually employed in supporting trolley-wires on electric railways, and it is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1 represents a plan view of the invention, and Fig. 2 represents a side elevation of the same, parts of which are shown in section. Fig. 3 represents a modified form of the insulator.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

A represents one of the poles for holding span-wires in electric-railway systems, which poles may be made of wood or metal in the usual manner. To said pole we secure a metal pole-ring clamp, which is preferably composed of two semicircular sections B B', clamped around the pole A by means of screw bolts or nuts and bolts C C, as shown in Figs. 1 and 2. The said pole-ring is provided with a bend, bail, or eye *b*, adapted to receive a similar bend, bail, or eye *d*, of the yoke or link D, as shown in Figs. 1 and 2. The yoke or link D has in its opposite end a tapering or conical socket D', adapted to receive and hold a correspondingly - shaped insulator - plug E, made of porcelain or other suitable insulating material. The said insulator-plug E extends through the socket in the yoke or link and is firmly supported thereby, and such plug is centrally perforated for the purpose of receiving the shank of the hook or eyebolt F, to which the span-wire G is attached in any suitable manner, as shown in Figs. 1 and 2. The shank of the eyebolt F is screw-

threaded and provided with a tightening-nut *f*, by means of which the span-wire can be drawn taut and the slack taken up from time to time. It is not essential that the insulator E should be made conical with linear sides, as shown in Figs. 1 and 2, as it may to equal advantage be made more or less curved, semi-spherical, or of similar form shown in Fig. 3, without departing from the essence of our invention. It will be noticed that the yoke or link D is by this construction and arrangement universally jointed to the pole-ring, allowing the utmost freedom of action of said yoke or link while the span-wire is being tightened for the support of the straight or curved track trolley-wire. Perfect insulation is obtained between the span-wire and the yoke or link connected to the pole-ring, and the insulator, being conical or tapering, can be most readily connected to the link and removed therefrom if broken or damaged.

In using this our device we are independent of the height of the poles, as the pole-ring may be adjusted readily up and down on the pole and secured in place thereon according to the desired height of the span-wire above the rails of the electric railway.

Having thus fully described the nature, construction, and operation of our invention, we wish to secure by Letters Patent, and claim—

1. The combination, with a pole-ring clamp, of a yoke or link jointed at one end to the clamp and having at the opposite end a socket, an insulating-plug extending through the socket, supported therein, and having a central orifice, and an eyebolt adapted to engage a span-wire and having its shank adjustable in the orifice of the insulating-plug, substantially as described.

2. The combination, with a pole-ring clamp, of two semicircular adjustably-connected sections, one of which is provided with a bend *b*, of a yoke or link D, having at one end a bend *d* engaging the bend of the clamp-section and at the opposite end a tapering socket, a tapering insulating-plug E, extending through the socket, supported therein,

and having a central orifice, an eyebolt F, adapted to engage the span-wire and having a screw-threaded shank extending through the orifice in the insulating-plug, and a screw-
5 nut *f*, engaging the shank and resting against the plug, substantially as described.

In testimony whereof we have signed our names to this specification, in the presence of

two subscribing witnesses, on this 3d day of January, A. D. 1891.

WILLIAM E. BAKER.
CHARLES H. MACLOSKIE.

Witnesses:

ALBAN ANDRÉN,
GEORGE F. PIPER.