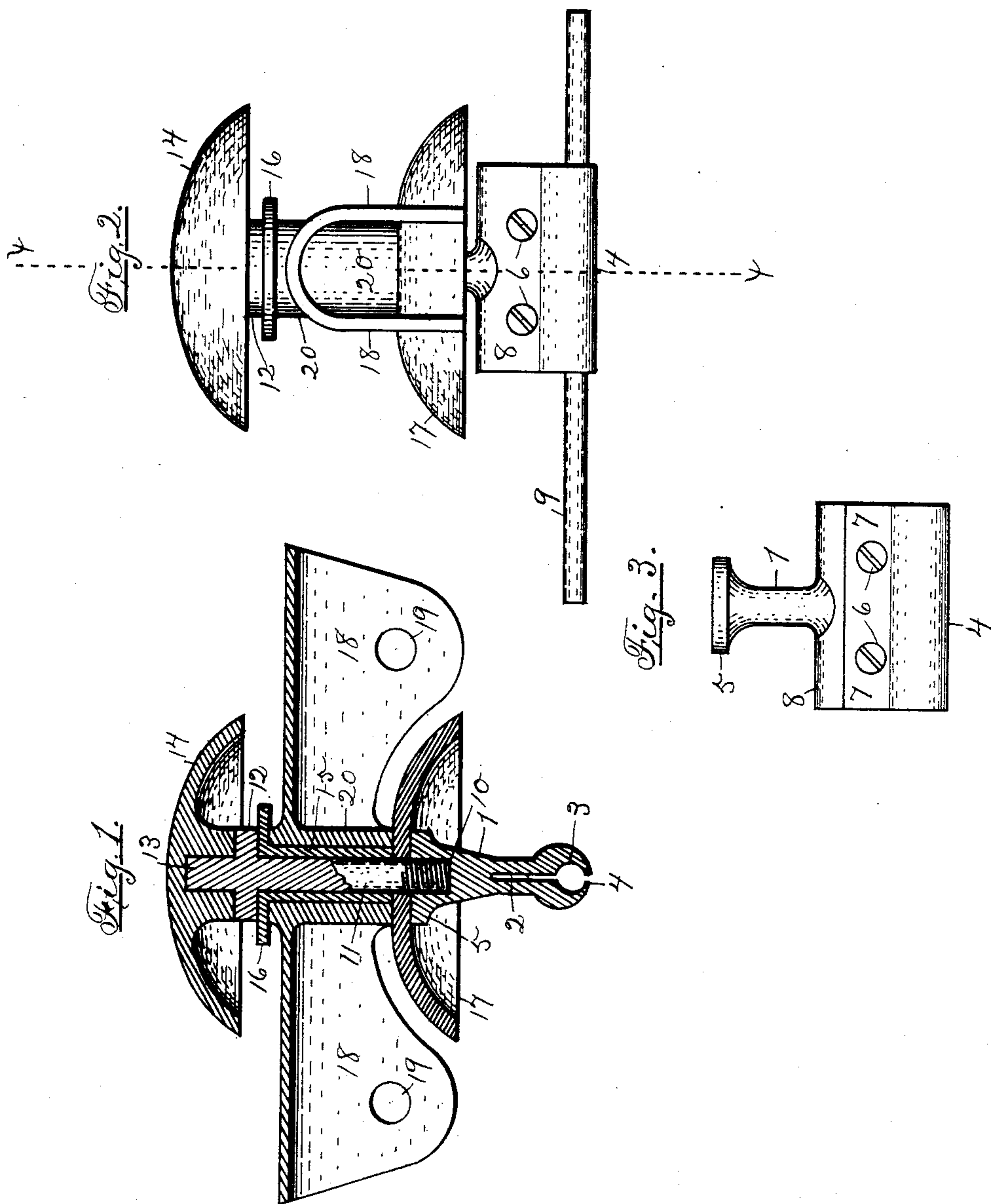


(No Model.)

C. FOSTER & W. H. BEVIS.  
ELECTRIC CONDUCTOR SUPPORT.

No. 445,594.

Patented Feb. 3, 1891.



Witnesses

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By



# UNITED STATES PATENT OFFICE.

CHARLES FOSTER AND WILLIAM H. BEVIS, OF CINCINNATI, OHIO.

## ELECTRIC-CONDUCTOR SUPPORT.

SPECIFICATION forming part of Letters Patent No. 445,594, dated February 3, 1891.

Application filed July 30, 1890. Serial No. 360,366. (No model.)

*To all whom it may concern:*

Be it known that we, CHARLES FOSTER and WILLIAM H. BEVIS, citizens of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Electric-Conductor Supports; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to improvements in electric-conductor supports.

The object of our invention is to devise a simple, inexpensive, and durable support for electric conductors, especially overhead electric-railway conductors.

The invention consists, primarily, in a suitable clamp, which directly embraces and holds the conductor, and in the combination of that device with other connecting and supporting parts.

Figure 1 is a mid-sectional view along the line *x x*, Fig. 2. Fig. 2 is an exterior view at right angles from the view of Fig. 1. Fig. 3 shows a modification of the clamp proper.

The same numbers refer to the same parts in different figures.

1 is the stem of the clamp; 8, the body; 2, a medial slot open along the lower edge 4 of the clamp-body; 3, a hole through the clamp-body adjacent the lower edge and parallel with that edge, and 10 is a threaded hole in the stem 1 by which the clamp is attached to supporting means. The other parts of the device are such as are now in common use. All of the parts shown are connected to and supported by the hanger 18, which has a central boss 20 and a roof-shaped body 18, having holes 19 in which the supports for insulating-spools are secured, the hanger being supported by wires fastened to these spools and extending in line with the hanger-body.

An insulating-bushing 15 16 is placed within the boss 20, and the screw-bolt 11 12 13 is secured in the bushing. A head or shoulder 12 is formed on the upper end and a screw-thread on the lower end. The projecting end 13 may be secured to the cap 14 in any suitable manner. Since the cap 14 is made of molded rubber, the end 13 is preferably cast to the cap. Another cap 17 is placed between

the lower end of the hanger-boss 20 and the boss 5 of the conductor-clamp. The parts 15, 16, and 17, being made of insulating material, effectually insulate the parts 1 11 12 from the supporting-hanger 18. 9 is a piece of a conductor clamped and held by the device 8.

In Figs. 1 and 2 the clamp 8 is made integral and with a slot 2 of sufficient width to allow of any desired variation of adjustment in clamping a conductor.

The hole 3 is made as close as possible to the edge 4, so that the clamping device will not interfere with an easy passage of the trolley. The clamp is adjusted and tightened by means of one or more screws 6.

Fig. 3 shows a modification of a clamp made in two parts, the part 7 forming one side of the clamp below the upper edge of the slot 2, and being held in place by the same screws 6, which are used to adjust and clamp the conductor.

We claim—

1. The electric-conductor support consisting of the combination of a conductor-clamp having a supporting projecting part, a hanger having a central vertically-perforated body part and integral side-supporting parts having eyes at their ends, a roof shape, and parallel sides forming a cover for supporting-connections, a bolt secured in the perforation of the hanger-body and connecting the parts together, and suitable insulating material interposed between the connecting-bolt and the other parts, substantially as set forth.

2. The electric-conductor support consisting of the combination of a conductor-clamp having a supporting projecting part, a hanger having a central vertically-perforated body part and integral side-supporting parts having eyes at their ends, a roof shape, and parallel sides forming a cover for supporting-connections, a bolt having a head at top and screwed into the clamp projection at bottom as means for connecting the parts of the device, and insulating material interposed between the bolt-body and its head and the contiguous parts connected together by the bolt, substantially as set forth.

3. The electric-conductor support consisting of the combination of a conductor-clamp having a supporting projecting part, a hanger having a central vertically-perforated body



part and integral side-supporting parts having eyes at their ends, a roof shape, and parallel sides forming a cover for supporting-connections, a bolt having a head at top and  
5 screwed into the clamp projection at bottom and held in the vertical perforation of the hanger as means of connecting the parts of the device, and an insulating spool or sleeve interposed between the bolt and the hanger-  
10 body, the bolt-head engaging the end of the sleeve and clamping it endwise, substantially as set forth.

4. The electric-conductor support consisting of the combination of a conductor-clamp  
15 having a supporting-stem with a flat end-bearing surface and an end-threaded recess, a hanger having a central vertically-perforated body part and integral side-supporting parts having eyes at their end, a roof shape,  
20 and parallel sides forming a cover for supporting-connections, a bolt having a head at top and screwed into the recess of the clamp-stem at bottom, and an insulating-sleeve interposed between the bolt and the hanger-  
25 body, the sleeve being clamped between the bolt-head and the end of the clamp-stem, substantially as set forth.

5. The electric-conductor support consisting of the combination of a conductor-clamp  
30 having a supporting-stem with a flat end-bearing surface and an end-threaded recess, a hanger having a central vertically-perforated body part and integral side-supporting parts having eyes at their ends, a roof shape,  
35 and parallel sides, forming a cover for supporting-connections, a bolt having a head at top and screwed into the recess of the clamp-stem at bottom, a bell-shaped cap of insulating material interposed between the hanger  
40 body and the end of the clamp-stem, and an insulating-sleeve interposed between the bolt-body and the hanger-body, the bolt passing through the said cap and clamping it against

the end of the clamp-stem, substantially as set forth.

6. The electric-conductor support consisting of the combination of a conductor-clamp having a supporting-stem with a flat end-bearing surface and an end-threaded recess, a hanger having a central vertically-perforated body part and integral side-supporting  
50 parts having eyes at their ends, a roof shape, and parallel sides forming a cover for supporting-connections, a bolt having a head at top and screwed into the recess of the clamp-  
55 stem at bottom, an insulating-sleeve interposed between the bolt and the hanger-body, and a top weather-protecting cap secured to a projection of the bolt-head, all of the parts being secured together by the central bolt,  
60 substantially as set forth.

7. The electric-conductor support consisting of the combination of a conductor-clamp having a supporting-stem with a flat end-bearing surface and an end-threaded recess,  
65 a hanger having a central vertically-perforated body part and integral side-supporting parts having eyes at their ends, a roof shape, and parallel sides forming a cover for supporting-connections, a bolt having a head at  
70 top and screwed into the recess of the clamp-stem at bottom, an insulating-sleeve having a flanged end collar at top and interposed between the bolt-body and the hanger-body, the bolt clamping the parts together and the  
75 said collar insulating the bolt-head from the upper end of the hanger-body, substantially as set forth.

In testimony whereof we now affix our signatures in presence of two witnesses.

CHARLES FOSTER,  
WILLIAM H. BEVIS.

Witnesses:

HENRY BAER, Jr.,  
EDWARD P. ROBBINS.