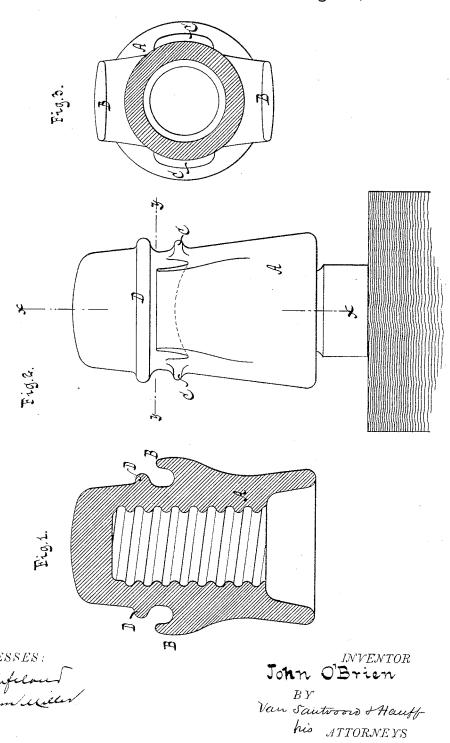
J. O'BRIEN.

TELEGRAPH INSULATOR.

No. 347,635.

Patented Aug. 17, 1886.



United States Patent Office.

JOHN O'BRIEN, OF NEW YORK, N. Y., ASSIGNOR TO WILLIAM BROOKFIELD, OF SAME PLACE.

TELEGRAPH-INSULATOR.

SPECIFICATION forming part of Letters Patent No. 347,635, dated August 17, 1886.

Application filed May 20, 1886. Serial No. 202,761. (No model.)

To all whom it may concern:

Be it known that I, JOHN O'BRIEN, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Telegraph-Insulators, of which the following is a specification.

This invention has for its object to provide a novel and efficient telegraph-insulator; and it consists in the features of construction hereinafter described and claimed, reference being made to the accompanying drawings, illustrating the invention, in which—

Figure 1 is a section in the plane x x, Fig. 2. Fig. 2 is a side elevation of my insulator. Fig. 3 is a horizontal section in the plane y y, Fig. 2.

Similar letters indicate corresponding parts. In the drawings, the letter A designates the body of a telegraph insulator, which is by preference made of glass, but which may be made of any other material suitable for the purpose. The insulator shown is provided with an internal screw-thread, for the purpose of securing the same in position on a telegraph-pole; but my invention is not restricted to screw-insulators, since it can be applied to insulators provided with other suitable means for securing the same in position on a telegraph-pole.

On opposite sides of the body A are formed two lugs, B, which serve to support the linewire both while the same is being put up and also after the same is permanently in position. That part of the surface of the lugs on which the line wire rests is made convex, so as to permit the same being drawn taut at a comparatively acute angle. When the wires are being placed in position over insuporting surfaces, the wires will kink or bend at the edge of these supports as they are being drawn taut, unless the line-man on the ground is a considerable distance from the insulator and draws the wire over the insulator at a very obtuse angle. To obviate this difficulty, I have formed the line-wire-supporting surface, as above described.

vantage of having two such supporting surfaces, besides being a support for two wires, 50 when necessary, is that in making sharp bends or a return-bend either lug of the insulator can be employed without turning the insulator, a very great advantage when the insulators are tightly fixed to the poles.

To support the "tie-wires" by which the line-wire is usually secured to the insulator, ridges C are formed on the body of the insulator, between the lugs B. These ridges serve to hold the tie-wire in place, particularly during the operation of drawing the line-wire taut. These ridges, together with the annular shoulder D, also forms a recess in which the tie-wires rest, and serve to hold the same in position on the insulators. A 65 somewhat similar recess is formed between the lugs B and the shoulder D for retaining the line-wire.

By the construction above described, the advantages of the old form of insulator, having an annular recess for supporting the wire when in position, are retained, with the additional advantage of a support for the wire during the whole operation of "running" the wires, which is particularly necessary when 75 the insulator is attached directly to a pole without the use of a cross arm.

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

1. A telegraph insulator provided with a 80 line-wire lug, having a convex supporting surface for said wire, substantially as described.

2. A telegraph-insulator provided with two line-wires, supporting-lugs arranged at op- 85 posite sides of its body, and each having a convex wire-supporting surface, substantially as and for the purposes described.

porting surfaces, the wires will kink or bend at the edge of these supports as they are being drawn taut, unless the line-man on the ground is a considerable distance from the insulator and draws the wire over the insulator at a very obtuse angle. To obviate this difficulty, I have formed the line-wire-supporting lugs, substantially in line with the convex surfaces of the line-wire-supporting 95 lugs, substantially as described.

4. A telegraph-insulator provided with two line-wire-supporting lugs on opposite sides of its body, and with two oppositely-arranged and laterally-projecting tie-wire-supporting ridges between said lugs, substantially as described.

In testimony, whereof I have becomes set.

In testimony whereof I have hereunto set

Witnesses:
W. HAUFF,
OTTO HUFELAUR.