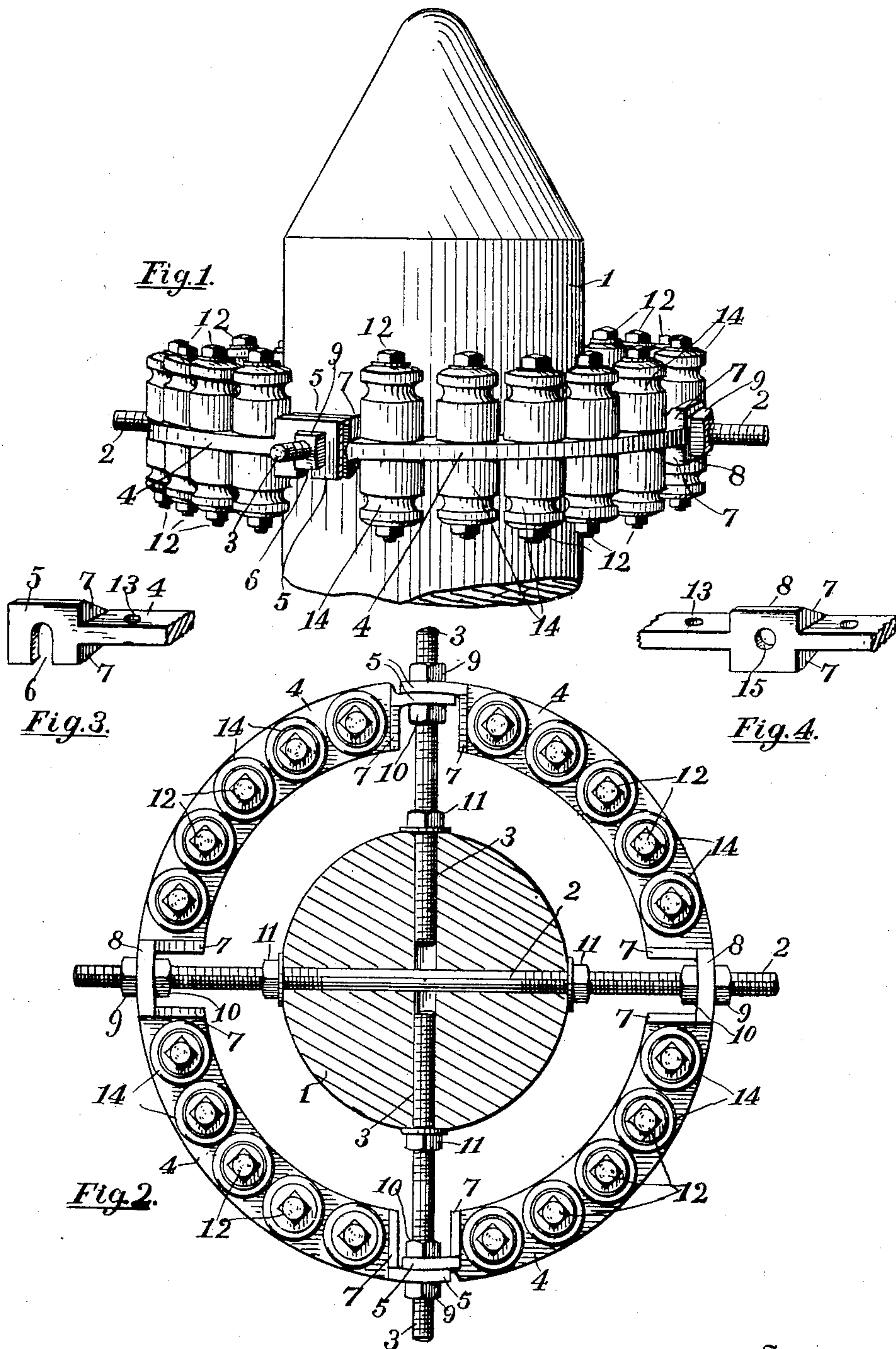


No. 862,211.

PATENTED AUG. 6, 1907.

W. STEINER.
INSULATOR SUPPORT.
APPLICATION FILED MAR. 24, 1906.



Witnesses

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WILLIAM STEINER, OF MUSKEGON, MICHIGAN.

INSULATOR-SUPPORT.

No. 862,211.

Specification of Letters Patent.

Patented Aug. 6, 1907.

Application filed March 24, 1906. Serial No. 307,871.

To all whom it may concern:

Be it known that I, WILLIAM STEINER, a citizen of the United States, residing at Muskegon, in the county of Muskegon and State of Michigan, have invented certain new and useful Improvements in Insulator-Supports; and I 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.

My invention relates to improvements in insulator supports; and more particularly to such supports when attached to poles for supporting line wires; and its object is to provide a strong cheap and durable device, and to provide the same with various new and useful features hereinafter more fully described and particularly pointed out in the claims.

My invention consists essentially of radial arms, preferably of iron rods, inserted in the pole and having attached thereto cast metal segments upon which the insulators are mounted and secured by means of bolts extending through the insulators and through openings in the segments, and in various features of the combination and arrangement, as will more fully appear by reference to the accompanying drawings, in which:

Figure 1. is a perspective of my device attached to a pole; Fig. 2. a plan view of the same with the pole in horizontal section; Fig. 3. a perspective detail of one end of one of the segments; and, Fig. 4. the same of a middle portion of a segment.

Like numbers refer to like parts in all of the figures.

1 represents the upper end of a pole for supporting wires; 2 a metal rod extending horizontally through the pole and screw-threaded at its respective ends; 3 the same extending through the pole at right-angles to 2 and in the same plane therewith, and also divided and spaced apart at the middle. These arms extend radially from the pole and are provided with nuts 11 which engage the opposite sides of the pole to adjust and support the rods 2 and 3. The screw threads on the inner ends of the arms 3 engage screw threads in the pole and firmly secure the arms in place. Supported upon these arms are segments 4, preferably two, forming a complete circle and terminating at their adjacent ends in overlapping vertically extended portions 5 which are recessed on the under side as at 6 to receive the arms and are also provided with angle braces 7 to strengthen the connection between the same and the segments, which latter have broad upper and under faces upon

which the insulators 14 are seated and project above and below the segments. These insulators are secured in place by bolts 12 extending through the insulators and through openings 13 in the segments. At the middle of each segment is a vertical enlargement 8 having an opening 15 to receive the end of the arm 2 and on all the arms are inner and outer nuts 9 and 10 to engage the inner and outer surfaces of the vertical enlargements 5 and 8 and thus securely hold the segments in place. By adjusting the nuts 11, the device is adapted to poles of different diameters, and by adjustment of the nuts 9 and 10 segments of different radii may be used.

Obviously the four segments of one-quarter circle each might be used in place of those shown, providing each with ends, as shown in Fig. 3.

What I claim is:

1. An insulator support, comprising a pole, radial arms projecting horizontally from the pole, a ring having horizontally extended segments to support the insulators and vertically extended portions having openings to receive the arms, and angle braces connecting said portions of the ring.

2. An insulator support, comprising a pole, radial arms extending horizontally from the pole, adjusting nuts on the arms and engaging the pole, a ring supported on the arms and having horizontally extended portions to support the insulators and vertically extended portions having openings to receive the arms, and outer and inner nuts on the arms to hold and adjust the ring on the arms.

3. An insulator support, comprising a pole, radial arms projecting horizontally from the pole, segments having horizontal upper and lower sides to engage the insulators, and vertically extended portions having openings to receive the arms, and nuts on the arms to engage said vertically extended portions of the segments.

4. In an insulator support, radial arms, segments having horizontal upper and lower surfaces and vertical openings, vertically extended ends to the segments and having openings to receive the arms, bolts extending through said openings, and nuts on the arms to engage the vertically extended ends of the segments.

5. The combination of a pole, radial arms inserted in the pole, segments supported by the arms and having horizontal upper and lower surfaces, and also having vertically extended portions to receive the arms, nuts on the arms to engage the segments, insulators engaging the respective sides of the segments, and bolts extending through the segments and through opposing insulators.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM STEINER.

Witnesses:

ALEX. SUTHERLAND,
CHAS. L. CHAMBERLAIN.