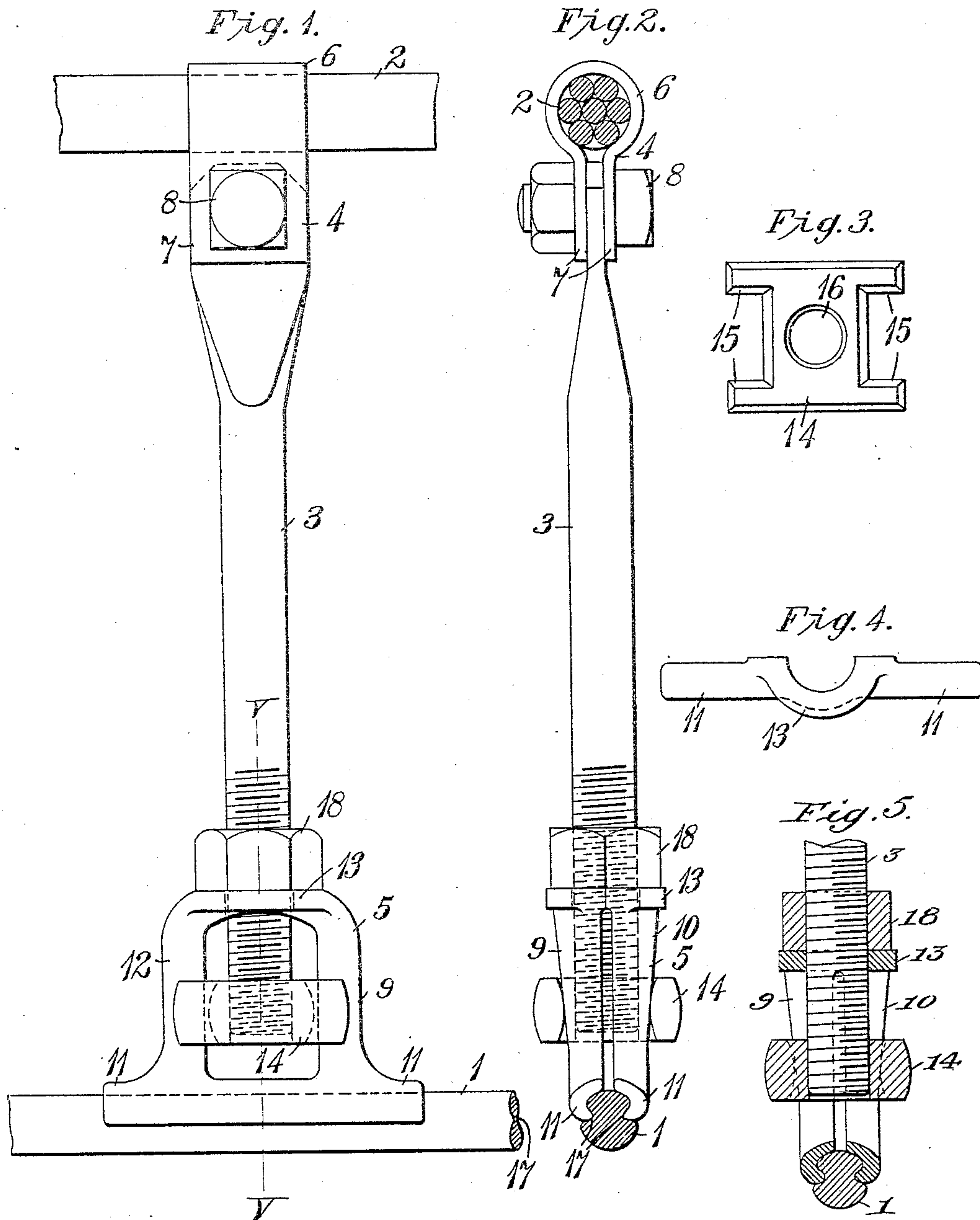


H. P. DAVIS.
TROLLEY CLAMP.
APPLICATION FILED OCT. 5, 1907.

931,390.

Patented Aug. 17, 1909.



WITNESSES:

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HARRY P. DAVIS, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, A CORPORATION OF PENNSYLVANIA.

TROLLEY-CLAMP.

No. 931,390.

Specification of Letters Patent.

Patented Aug. 17, 1909.

Application filed October 5, 1907. Serial No. 396,026.

To all whom it may concern:

Be it known that I, HARRY P. DAVIS, a citizen of the United States, and a resident of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Trolley-Clamps, of which the following is a specification.

My invention relates to means for suspending electric line conductors, and it has for its object to provide a simple and effective clamping device for use in suspending a trolley conductor or other wire or cable from a suitable support.

My clamping device is especially adapted for use with grooved trolley conductors that are suspended from messenger wires or cables, but it may be employed in connection with conductors of circular cross-section that are suspended from bracket arms or cross-wires, in accordance with a well known practice for low potential lines.

Figure 1 of the accompanying drawings is a side elevation, and Fig. 2 is an end elevation, of a trolley-conductor hanger and clamp constructed in accordance with my invention. Figs. 3 and 4 are detail views of the trolley-conductor clamp shown in Figs. 1 and 2, and Fig. 5 is a longitudinal, sectional view of the trolley-wire clamp.

Referring to the drawings, a trolley conductor 1 is suspended from a messenger wire or cable 2 by means of a hanger rod 3, a cable clamp 4, and a trolley-conductor clamp 5. The cable clamp 4 comprises a loop 6 which surrounds the cable 2 and is provided with a pair of ears 7, the upper end of the hanger rod being flattened to fit between the ears and being secured in position by means of a bolt 8.

The trolley-conductor clamp 5 comprises a pair of interchangeable members 9 and 10, a clamping block 14 having corner projections 15 and a tapped hole 16 through its center. Each of the members 9 and 10 comprises a jaw 11, a body portion 12 having a downwardly and inwardly inclined outer face and a collar segment 13.

In assembling the clamp members, the jaws 11 are held in engagement with grooves 17 in the trolley conductor 1, the block 14 is located in the opening in the body of the clamp, its projection 15 serving to hold the complementary members 9 and 10 together, and the lower end of the hanger rod 3, which

is provided with a nut 18, is thrust through the opening between the collar segments 13 and is screwed into the hole 16 in the clamping block 14. The outer surfaces of the body portions 12 of the clamping jaws are so inclined that a clamping action is produced between the complementary jaws 11 when nut 18 is so turned as to approach the lower end of the hanger rod.

It will be observed that the rod 3 is threaded for some distance from its lower extremity in order that an adjustment of the distance between the messenger wire or cable and the trolley conductor may be effected, and that the trolley conductor may be released from the hanger without disturbing the messenger cable clamp.

It will be understood that variations in the size and arrangement of parts may be effected within the scope of my invention, and I desire that only such limitations shall be imposed as are indicated in the appended claims.

I claim as my invention:

1. A trolley-conductor clamp comprising a pair of jaw members having complementary hook projections to engage a grooved conductor and body portions the outer sides of which converge toward said projections, a clamping block having corner projections to engage said converging sides, and means for effecting longitudinal movement of the block to cause a clamping action between the hook projections.

2. A trolley-conductor clamp comprising a pair of interchangeable jaw members having complementary hook projections to engage a grooved conductor, body portions having outer surfaces which converge toward the hook projections and complementary collar segments, a clamping block located between said body portions and having lateral projections to engage the converging sides of said portions, a hanger rod that extends between the collar segments and engages a tapped hole in the clamping block, and a nut mounted on the rod to engage the collar segments.

3. A clamp for wires or cables comprising a pair of jaw members having spaced body portions, a clamping block located between said body portions and engaging the outer sides thereof, and means for so adjusting the block relative to the jaw members as to draw said members toward each other.

4. A wire or cable clamp comprising a pair of complementary jaw members having inclined outer surfaces, a clamping block located between said members and having
5 arms which engage said inclined surfaces and means for adjusting said block along said inclined surfaces.

5. A clamp comprising a screw-threaded hanger rod, a pair of complementary jaw
10 members having collar segments which surround said hanger rod, a clamping block on

the lower end of said hanger rod and having arms which engage inclined surfaces on said jaw members, and a nut on the hanger rod to engage said collar segments. 15

In testimony whereof, I have hereunto subscribed my name this 27th day of September, 1907.

HARRY P. DAVIS.

Witnesses:

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