

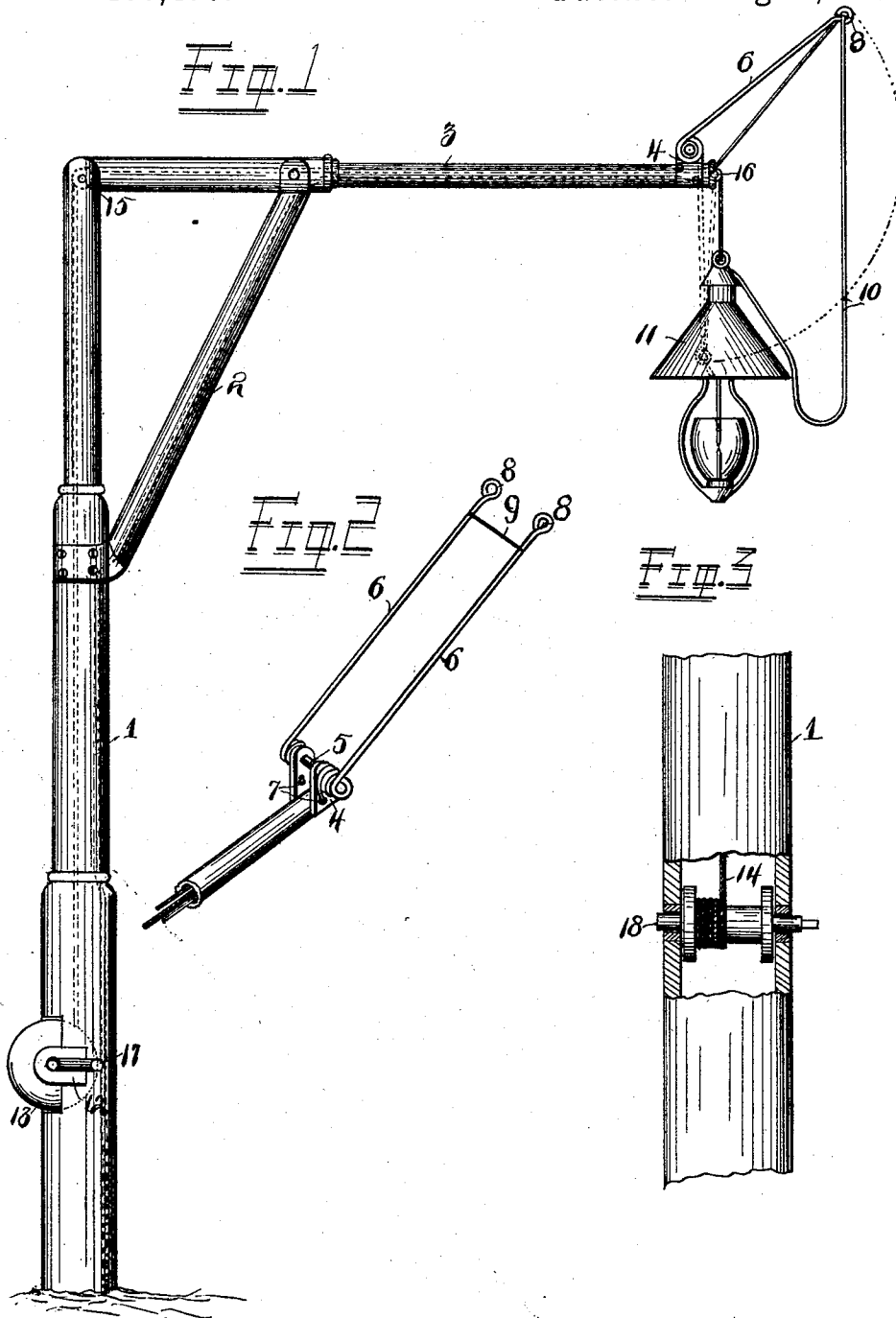
(No Model.)

J. MAIER.

SUPPORTING DEVICE FOR ELECTRIC ARC LAMPS.

No. 480,470.

Patented Aug. 9, 1892.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN MAIER, OF ST. LOUIS, MISSOURI.

SUPPORTING DEVICE FOR ELECTRIC-ARC LAMPS.

SPECIFICATION forming part of Letters Patent No. 480,470, dated August 9, 1892.

Application filed December 11, 1891. Serial No. 414,698. (No model.)

To all whom it may concern:

Be it known that I, JOHN MAIER, of the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Supporting Devices for Electric-Arc Lamps, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in supporting devices for electric-arc lamps; and it consists in the novel arrangement and combination of parts, as will be more fully hereinafter described, and designated in the claims.

In the drawings, Figure 1 is a side elevation of my complete invention. Fig. 2 is a perspective view of the end of the support. Fig. 3 is a rear elevation of the post, showing the reel for raising and lowering the lamp.

Referring to the drawings, 1 represents a hollow post, the lower end of which is secured in the ground in any suitable manner, and to which post the various parts constituting my invention can easily be attached. At a suitable distance from the upper end of said post and secured thereto at an angle is a brace 2, the upper end of which brace supports a cross or horizontal support 3. One end of the said horizontal support 3 projects a suitable distance from the support 2, and the opposite end of said support 3 is secured to the upper end of the post 1.

Before proceeding further with the description of my invention it will be well to state for the sake of clearness that the support 2 and horizontal support 3 are also hollow, by which construction the operating cords or ropes and conducting-wires for the lamp may be located therein.

To the free end of the horizontal support 3 is secured a clip 4, the ends of which project a suitable distance upward and are perforated in order to receive the short shaft 5.

6 represents two arms, the lower ends of which are coiled and the terminal ends pass through suitable openings 7, formed in the ears of said clip. By this construction the said arms are held in an elevated position in relation to the said support 3, as shown in Fig. 1.

8 represents eyes formed in the opposite

ends of said arms, and adjacent to said eyes and secured to both arms is a cross-bar 9, which has a tendency to strengthen said arms and keep them in proper position relative to one another.

10 represents the line-wires, which are in circuit with the ordinary electric lamp 11. Said line-wires lead from the ground in the usual manner and extend up the vertical posts to the hollow support 2, which support is in communication with said post. The upper end of said support 2 is in communication with the support 3 and the line-wires leading from said support 3 are passed into the horizontal support 3 and out of the open end of the same. The line-wires before reaching the lamp are passed through eyes 8, formed in the upper end of the arm 6. It may be premised in this connection that the springs formed on the lower ends of the arms 6 are of such a strength or tension that they will overcome the weight of the line-wires 10 only; but when the lamp is lowered by the mechanism, as hereinafter described, the weight of the said lamp will overcome the strength of the springs and cause the arms 6 to fall or be drawn, as shown in dotted lines in Fig. 1; but when the lamp is raised in its proper position, as shown in Fig. 1, the weight of the lamp will be released and the tension of the springs will cause the line-wires to be raised or elevated.

At a suitable distance from the lower end of the post 1, and mounted in suitable bearings 12, secured thereto, is a reel 13, to which reel one end of the rope 14 is secured, the opposite end of said rope passing up the said hollow post 1, around a suitable pulley 15, mounted in the upper end thereof, and thence through the horizontal support 3, over another pulley 16, mounted in the outer end of the said support, and thence to the lamp.

17 represents a crank, which is secured or adapted to be secured to the shaft 18, upon which the reel 13 is mounted, by means of which the said reel is operated in either direction for raising or lowering the lamp, as may be desired.

Having fully described my invention, what I claim is—

1. A support for electric lamps, consisting of a vertical post, supports, such as 2, and

horizontal supports, such as 3, an operating rope attached to the lamp and passed through said horizontal support and post and connected to a suitable reel, and a suitable device
5 secured to the free end of said support for elevating or raising the line-wires leading to the said lamp, substantially as set forth.

2. A support for lamps of the class described, consisting of a hollow support or post 1, support 3, and brace 2, line-wires passing through
10 the said posts, brace, and support and connected to a lamp, and a reel mounted in the lower end of the said post, around which a rope is adapted to be wound, said rope passing
15 over a suitable pulley and through said support 3 to the lamp for raising and lowering the same, substantially as set forth.

3. A support for electric lamps, consisting of a hollow post 1, brace 2, and support 3, a
20 clip secured to the free end of the said support, spring-arms, such as 6, secured to the said clip for suspending the line-wires leading to the lamp, and a rope attached to the said
25 post and attached to a suitable reel mounted

near the base of the said post, substantially as set forth.

4. A support for electric-arc lamps, consisting of a hollow post 1, brace 2, and support 3, a reel mounted in the lower end of the said
30 post, a rope connected to the said reel and adapted to be wound thereon and the opposite end of said rope passing up the post 1 and through the support 3 and attached to the lamp, a clip, such as 7, secured to one end
35 of the said support 3, and a shaft, such as 5, passing through the said clip, arms, such as 6, having coiled ends and in suitable connection with the said clip, and eyes, such as 8,
40 formed in the upper ends of the said arms, through which eyes the line-wires are adapted to pass for supporting the same, substantially as set forth.

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

JOHN MAIER.

Witnesses:

C. F. KELLER,
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