

A. FORNANDER.  
ELECTRIC LAMP MOUNTING.  
APPLICATION FILED SEPT. 14, 1914.

1,168,619.

Patented Jan. 18, 1916.  
2 SHEETS—SHEET 1.

*Fig. 1.*

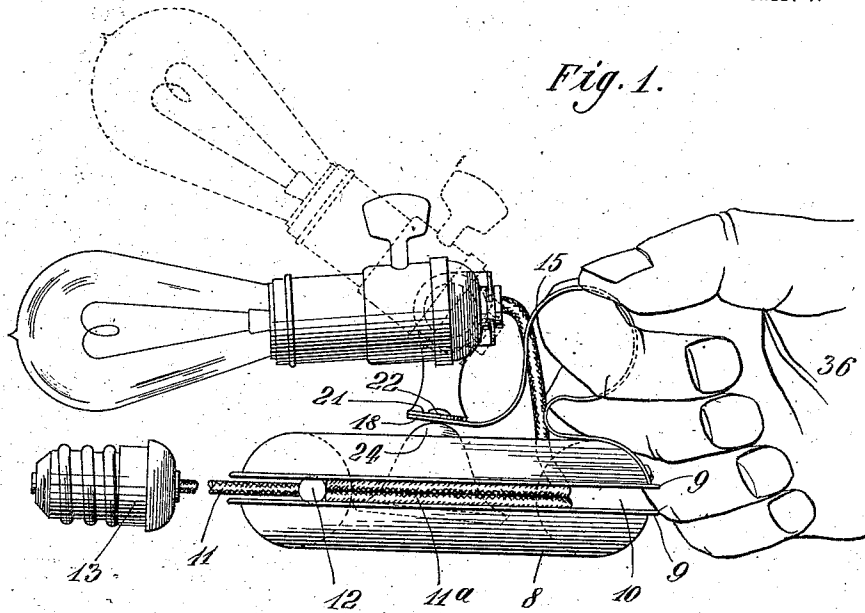
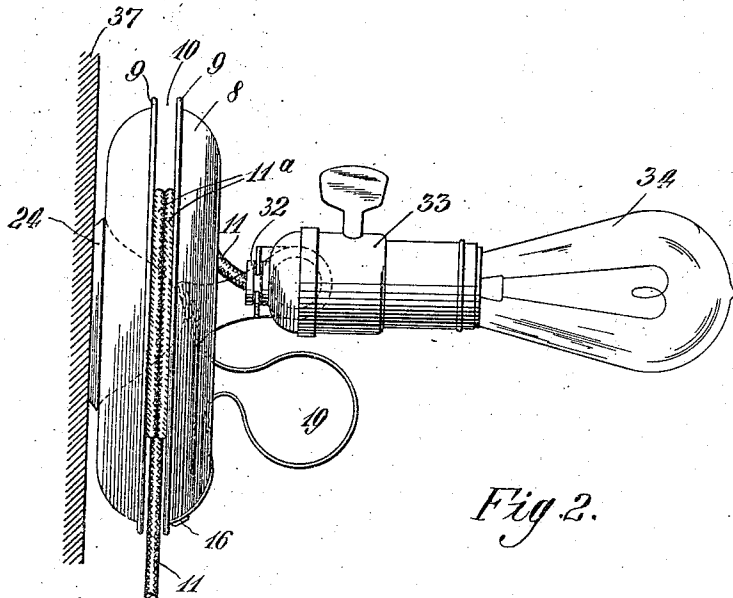


*Fig. 2.*

WITNESSES:

*Fred. Rogers*  
*Walton Harrison*

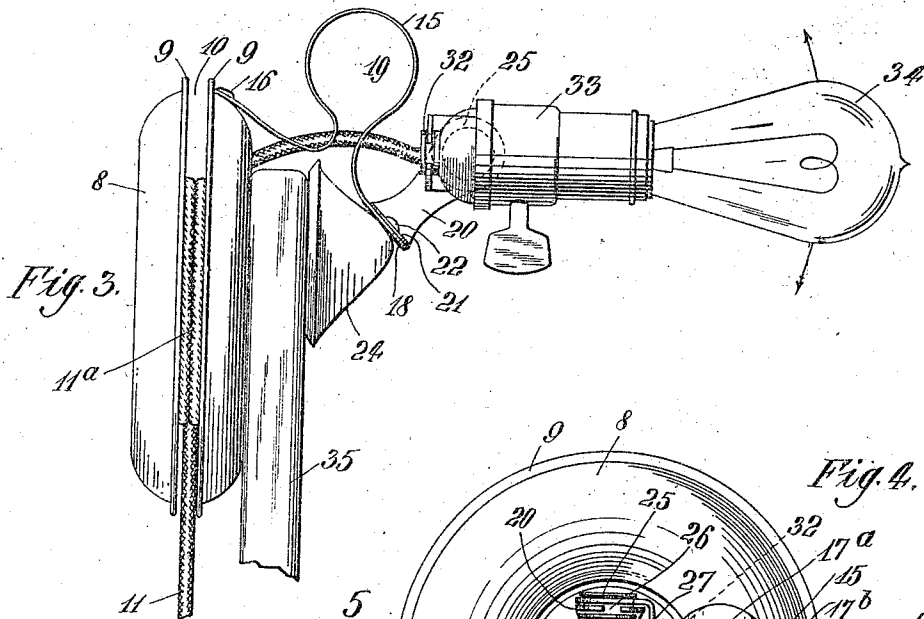
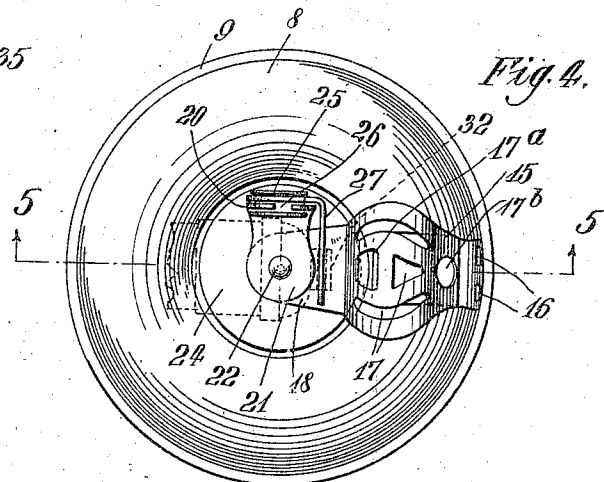
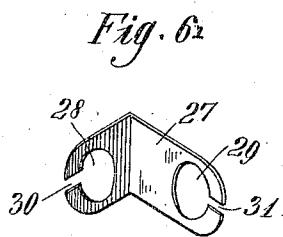
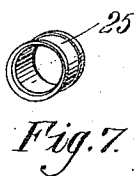
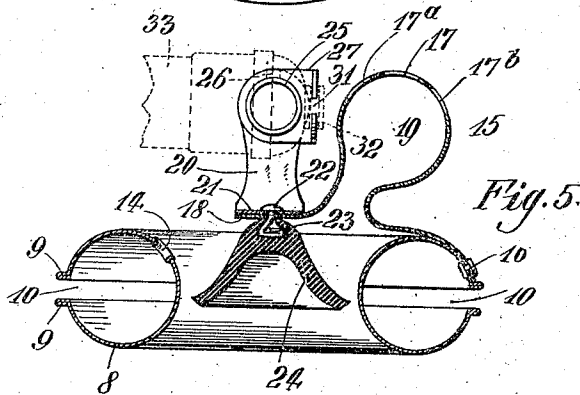
INVENTOR.

*Alfred Fornander*

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WITNESSES:

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Walton Harrison

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A. Fornander

# UNITED STATES PATENT OFFICE.

ALFRED FORNANDER, OF BROOKLYN, NEW YORK, ASSIGNOR OF ONE-HALF TO JOSEPH W. HEIMSOETH, OF NEW YORK, N. Y.

## ELECTRIC-LAMP MOUNTING.

1,168,619.

Specification of Letters Patent.

Patented Jan. 18, 1916.

Application filed September 14, 1914. Serial No. 861,718.

*To all whom it may concern:*

Be it known that I, ALFRED FORNANDER, a subject of the King of Sweden, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Electric-Lamp Mountings, of which the following is a specification.

My invention relates to electric lamp mountings of the kind used in connection with incandescent lamps and sometimes designated in this art as portable electric lamps.

More particularly stated, I seek to produce an electric lamp mounting, which can be made up cheaply from scrap material, and which is adapted for a considerable variety of uses.

My invention comprehends a device of this type in which there is a spool for holding the flexible conductor or lamp cord employed and a spring of special design connected with this spool and carrying a clamping member, preferably a suction cup for engaging a fixture and thus supporting the device.

My invention further contemplates arranging the spool and the suction cup in predetermined relative positions so that they can be handled to advantage, the operator grasping the spool with one hand and the suction cup with the other in order to apply the mounting to a large number of different kinds of supporting fixtures.

My invention also comprehends a special arrangement of the various parts whereby the suction cup is normally housed within the spool, the latter being properly shaped to facilitate this purpose.

My invention further contemplates a number of specific improvements in electric lamp mountings as hereinafter described.

Reference is made to the accompanying drawings, forming a part of this specification and in which like letters indicate like parts.

Figure 1 is a side elevation showing the electric lamp mounting as carried in the hand after the manner of a candle stick, and also showing how the incandescent bulb

and socket therefor are movable to different angles. Fig. 2 is an elevation showing the lamp as mounted upon a wall, by aid of the suction cup. Fig. 3 is a side elevation showing the device as mounted upon the back of a chair. Fig. 4 is a plan view of the electric lamp mounting. Fig. 5 is a section on the line 5-5 of Fig. 4, looking in the direction of the arrow. Fig. 6 is a detail showing in perspective a supporting bracket forming a part of the structure. Fig. 7 is a detail view showing in perspective an eyelet forming a bearing for supporting a bulb and socket so as to render the same adjustable to different angles.

The spool is shown at 8 and is made of sheet metal preferable in a single piece. It has a general annular form and is provided with flanges 9 which are turned backwardly as indicated in Fig. 5. These flanges are separated by a slot 10, also of annular form. A flexible conductor 11, having in this instance the form of a lamp cord, is wound within the spool 9 and when coiled therein has the appearance indicated at 11<sup>a</sup>. Mounted upon the lamp cord 11 is a stop bead 12. This bead is made of elastic material such as soft rubber and when forced through the slot 10 prevents the flexible conductor from becoming unwound except as to that portion outside of the slot and leading to the connecting plug, which is shown at 13. The spool 8 is provided with an eyelet 14 extending through its wall as indicated in Fig. 5. The flexible conductor is threaded through this eyelet in order to facilitate its direct connection with the lamp bulb. A strip of sheet metal 15 is formed into a spring, the cross section of which is rectangular. This spring is secured upon the spool 8 by rivets 16. It is provided with openings 17, 17<sup>a</sup>, 17<sup>b</sup>. The openings 17<sup>a</sup> and 17<sup>b</sup> are used for guiding the flexible conductor, which is passed through these openings as may be understood from Figs. 1 and 3. The openings 17 also serve a useful purpose in that they enable the operator to secure a grip on the spring by placing his thumb over these openings and extending his forefinger through a loop 19 into

which the middle portion of the spring is formed. The spring is provided with a flattened portion 18 and carried by the latter is a small bracket 20, made of a single  
 5 piece of sheet material and provided with a flat base portion 21 which is secured rigidly upon the flat end 18 of the spring, by soldering or otherwise.

A fastening member 22, which in this instance is a swivel bolt, extends through the portions 18—21 and is bent to form an anchorage. This anchorage is embedded within the wall or solid portion of a suction cup 24, which is made of rubber. The  
 10 bracket 20 carries an eyelet 25, which serves as a bearing. In order to facilitate the mounting of the eyelet 25 the bracket 20 at its upper end is provided with a slot 26. Another bracket 27 shown more particularly in Fig. 6 has a general L-shape, and is provided adjacent its ends with openings 28—  
 20 29 of substantially circular form and with slots 30—31 merging into these openings. Another eyelet serving the purpose of a bearing extends through the opening 29 and secured to this eyelet is the lamp socket 33. An incandescent bulb is shown at 34 and is carried by the socket 33. This socket and the bulb may be tilted to different angles  
 30 relatively to the spool 8, as will be understood from Fig. 1. To facilitate this purpose the bracket 27 is so arranged that it may be turned into different angular positions relatively to the bracket 20—the eyelet 25 serving as the pivotal connection for this purpose, and having sufficient tightness relatively to other parts to hold the bulb in any angular position into which it may be turned. The arrows extending respectively  
 40 upward and downward from the bulb 34 in Fig. 3, indicate the directions in which the bulb may be turned or adjusted, upon the eyelet 25 as a pivotal connection.

A chair back is shown at 35 in Fig. 3 and supports the electric lamp mounted in the manner there indicated. In order to accomplish this result the operator grasps the spool 8 with one hand and the suction cup 24 with the other, hand so that the spring  
 50 15 extends bodily upward. Then by pulling the suction cup 24 outwardly and away from the spool 8, the suction cup and spool are brought upon opposite faces of the chair back, so that the resilience of the spring 15  
 55 clamps the spool and suction cups upon the chair back. This renders the positioning of the mounting secured. The bulb and socket may now be tilted to different angles as above described.

60 In order to remove the electric lamp mounting from the position just indicated, the operator extends his finger through the opening 19 and pulls the spring directly upward. This disengages the suction cup and

spool from the chair back and the parts assume the relative positions indicated in Fig. 5.

If desired the electric lamp mounting may be secured directly to a wall 37 or other smooth surface as indicated in Fig. 2. To  
 70 do this the operator merely pushes the suction cup directly against the wall or analogous member so that it adheres after the manner of any other suction cup as commonly used in this art. The bulb 34 and  
 75 socket 33 may now be bent or tilted into different angular positions as above described. In Fig. 1 the device is shown as carried by the operator's hand 36 and used somewhat after the manner of a candlestick.

I do not limit myself to the precise mechanism shown, as variations may be made therein without departing from the spirit of my invention.

What I claim and desire to secure by  
 85 United States Letters Patent is:

1. An electric lamp mounting comprising a spool, a flexible conductor partially wound thereupon, a flat spring secured to said spool and bent to form a loop serving as a  
 90 handle, a lamp supported by said spring and connected to said flexible conductor, and a suction cup carried by said spring, said suction cup and said spool being so disposed that they may respectively be readily  
 95 grasped by the operator's two hands and applied to a fixture.

2. An electric lamp mounting comprising a spool, a flat leaf spring secured thereto and said leaf spring also having openings therein, a flexible conductor partially wound  
 100 upon said spool and extending through said openings, supporting members mounted upon said spring, and a lamp carried by said supporting members and connected to said  
 105 flexible conductor.

3. An electric lamp mounting comprising a spool of annular form, a spring mounted upon said spool, a suction cup carried by said spring and normally housed within the  
 110 center thereof, a lamp, means for supporting the lamp upon said spring, said spool and said suction cup being arranged so that they may be drawn apart and caused to grip opposite faces of a supporting member.

4. In an electric lamp mounting the combination of a spool of annular form and having a central opening, a spring secured thereto, a suction cup carried by said spring and adapted to move through said opening  
 120 in the spool, a flexible conductor partially wound upon said spool, and a lamp supported by said spring and connected to said flexible conductor.

5. A lamp mounting, comprising a spool, a looped leaf spring mounted thereupon and provided with a flat end portion, a suction cup secured to said flat portion, a bracket

mounted upon said flat portion, a fastening member extending through said flat portion and engaging said suction cup, mechanism carried by said bracket for supporting a  
5 lamp, and a flexible conductor partially wound upon said spool and leading to said lamp.

In witness whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALFRED FORNANDER.

Witnesses:

WALTON HARRISON,  
JAMES A. SULLIVAN.