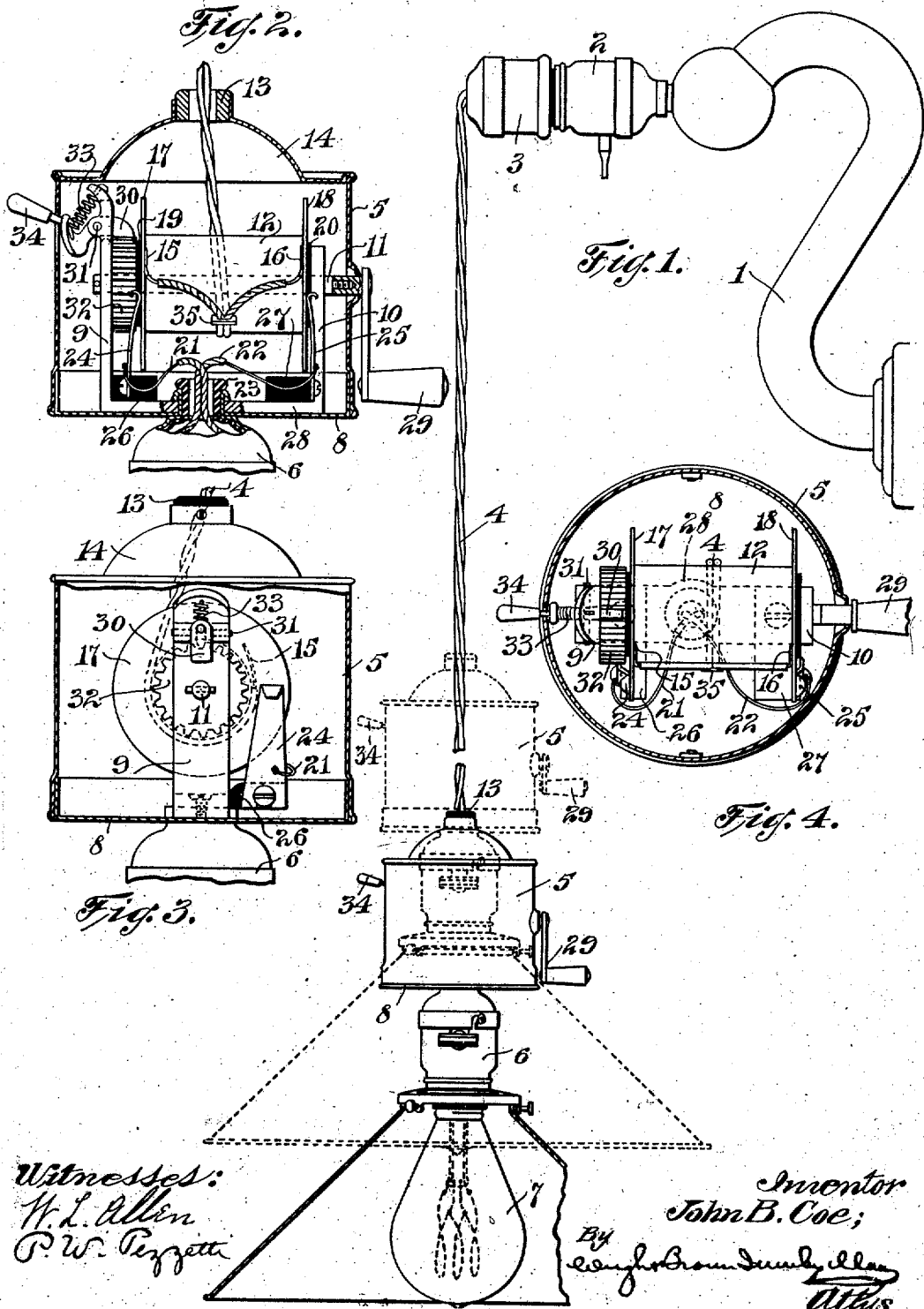


J. B. COE.
ADJUSTABLE ELECTRIC LAMP SUPPORT.
APPLICATION FILED NOV. 26, 1909.

960,076.

Patented May 31, 1910.



UNITED STATES PATENT OFFICE.

JOHN B. COE, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF ONE-FOURTH TO JOHN E. HILTON, OF BOSTON, MASSACHUSETTS.

ADJUSTABLE ELECTRIC-LAMP SUPPORT.

960,076.

Specification of Letters Patent.

Patented May 31, 1910.

Application filed November 26, 1909. Serial No. 529,899.

To all whom it may concern:

Be it known that I, JOHN B. COE, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Adjustable Electric-Lamp Supports, of which the following is a specification.

This invention relates to a support or holder for an electric lamp adapted to be suspended from a wall bracket or any other outlet connection, and adjustable to hold the lamp at any desired height.

The entire device consists of a casing to which is rigidly attached a lamp socket, which casing contains a reel upon which an electric conductor may be wound, and electrical contact members and connections for conducting current from the conductor of said reel to the terminals of the lamp socket. The flexible conductor mounted upon the reel has on its end a plug which may be inserted into any socket such as is provided on a wall bracket for a lamp or a ceiling socket or any other outlet connection with the wiring system of the building.

In the accompanying drawings I have illustrated the preferred manner in which my invention is carried into effect.

In these drawings,—Figure 1 is an elevation showing the entire apparatus connected with a wall bracket. Fig. 2 is a section of the casing showing the manner of attaching the same to the lamp socket and the operating parts contained therein. Fig. 3 is a view showing in elevation the interior mechanism of the casing, the latter being broken away for the purpose. Fig. 4 is a plan view of the mechanism contained in the casing, the latter being shown in section.

The same reference characters indicate the same parts in all the figures.

Referring to the drawings, 1 represents a bracket such as is commonly used in buildings for a wall lamp, such bracket carrying a socket 2. This bracket and socket are shown as being merely typical or illustrative of any socket mounted in any manner which may be found in a building equipped with electric lights and do not themselves form part of my invention. They are illustrated simply as showing the manner in which the invention is applied.

The invention resides in the parts which are shown in Fig. 1 as depending from the socket 2. These parts consist of a plug

adapted to be detachably connected in the socket 2, a flexible conductor 4, a casing 5, a lamp socket 6, rigidly secured to the bottom of said casing and a lamp 7. The casing 5 is a shell preferably cylindrical in form, which is detachably secured to a base 8, to the latter of which is rigidly attached the socket 6. Mounted upon the base 8 are standards 9 and 10 which support the ends of the shaft 11, upon which is mounted a reel 12. The flexible conductor is wound up on this reel and passes through an opening 13 in the cover or top 14 of the casing 5. The conductors for the ordinary electric incandescent lamp consist of two wires and such a conductor is here shown. The terminals of these two wires are connected respectively at the points 15 and 16 to flanges 17 and 18 on the ends of the reel 9. These flanges are of conducting material and are insulated from the supports. Preferably the reel 12 is of wood or other non-conducting material and the conducting flanges are mounted thereon and insulated thereby from the shaft 11. Insulating washers 19 and 20 are also preferably interposed between the flanges and the metallic parts next adjacent thereto. Thereby the terminals of the conductor 4 are insulated from everything except the connections with the lamp socket 6 presently to be described.

The terminals or conducting wires 21, 22, of the lamp socket 8 pass through an insulating nipple 23 which is set into the base 8, and are connected respectively to contact springs or brushes 24, 25 in the interior of the casing. These brushes are attached to insulating blocks 26, 27 respectively, which are suitably secured to the base 8 as by being mounted upon the foot portion 28 of the standards 9, 10. It may be observed that in the form of the invention here shown these standards are formed in one piece with an intermediate foot or yoke, which latter is centrally perforated to receive the nipple of the socket and the sleeve 23, and is fastened securely by solder or other means to the bottom 8 of the casing. Thus electrical connection between the conductor 4 and the terminals of the lamp socket 6 is maintained in all positions of the reel.

For winding up the wire 4 on the reel and thus raising the lamp, I provide a crank 29 having a detachable connection with the shaft 11 as being screwed thereon in the

manner shown in Fig. 2. Rotation of the handle, as will readily be understood, winds up the wire 4 and thus raises the lamp. The reel is prevented from turning and the lamp thus maintained at any desired height by means of a lock 30. This lock consists of a pawl pivoted at 31 to the standard 9 and engaging the teeth of a gear or ratchet 32. The pawl is urged by a spring 33 into engagement with said teeth and carries a handle or knob 34 projecting outside of the bracket by which it may be disengaged from the teeth when the lamp is to be lowered or raised.

It may be noted that at the points where the terminals of the wire 4 merge together, the latter is attached to the reel by a fastening 35 to obviate danger of stripping the terminals from the flanges 17 and 18. These flanges, it may also be noted, serve the double purpose of confining the wire upon the reel or spool when it is wholly wound thereon, and of conducting electricity from the wire 4 to the lamp socket while permitting rotation to wind up the wire or cord.

Many modifications may be made without departing from the spirit of my invention or changing the scope thereof. For instance a spring may be employed in any well-known manner to wind up the reel in place of the crank 29; the reel or spool 12 may be made of metal in electrical connection with the disks 17 and 18, provided it is suitably insulated from its supporting brackets 9, 10 and from the shaft 11; and other readily apparent changes may equally well be made.

I claim,—

1. An adjustable electric lamp, comprising a socket, a reel holder rigidly united to said socket, a reel rotatably supported by said holder, a flexible electrical conductor upon said reel, manual means for rotating said reel to wind said conductor more or less thereon to adjust the height of the lamp, and electrical connections between said conductor and the terminals of said socket arranged to maintain electrical connection while permitting rotation of the reel.

2. An adjustable electric light holder comprising a casing, a lamp socket rigidly connected to said casing, a reel journaled within said casing, a suspension cord, including an electrical conductor passing into said casing and attached to said reel, means for rotating the reel to wind up said cord and thereby adjust the height of said holder, a toothed wheel secured to said reel, a lock arranged to engage any of the teeth of said wheel for securing said reel in any position and having a portion extending outside of the casing for manipulation, and contact brushes for transmitting current from the conductor to the terminals of the socket.

3. An adjustable electric light holder, comprising a casing having a removable

base, a lamp socket rigidly secured to said base, standards also rigidly secured to said base, a reel of non-conducting material rotatably supported by said standards, metallic flanges or disks upon said reel, contact brushes bearing against said disks and having electrical connection with the terminals of said socket, and an electric light cord passing into said casing, adapted to be wound upon said holder between said flanges secured thereto in electrical connection therewith.

4. An adjustable electric light holder comprising a lamp socket, supports rigidly connected to said socket, a reel rotatively held by said supports, metallic flanges or disks attached to said reel at a distance from one another, blocks of insulating material secured to said supports, contact springs or brushes mounted upon said blocks and bearing against said flanges, connections leading from the terminals of said lamp socket to said brushes, and an electric light cord mounted upon said reel and having its terminals in electrical connection with the respective flanges.

5. In an adjustable electric light holder, a lamp socket, a reel rotatively mounted upon standards rigidly connected to said socket, an electric light cord adapted to be wound upon said reel and metallic flanges on said reel on each side of said cord to which the terminals of the latter are respectively connected, said flanges serving both as retainers for the wound-up cord and as conductors for transmitting electric current to the lamp socket.

6. An adjustable electric light holder consisting of a casing having a detachable bottom or base, a lamp socket secured to said base, standards secured to said base, a reel rotatively mounted upon said standards, an operating crank detachably connected with said reel and extending through the side of said casing when so connected, a toothed wheel secured to said reel or its shaft, a bracket member yieldingly engaged with said wheel, a handle for dis-engaging said bracket from said wheel detachably connected therewith and projecting through the side of the casing when so connected for manipulation externally, an electric light cord passing through an opening in the cover of said casing and wound upon said reel, and electrical connections between said cord and the terminal to said socket.

7. An adjustable electric light holder, comprising a lamp socket, standards rigidly connected to said socket, a reel rotatively mounted upon said standards, an electrical conductor attached to said reel, electrical connections between said conductor and the terminals of the lamp socket through parts of the reel, a crank connected to said reel for winding up the said conductor thereon, to

adjust the height of the holder, a toothed
wheel connected to the reel, and a manually-
operated pawl or lock, engageable with said
wheel for maintaining the holder in any ad-
5 justment, said crank and lock together serv-
ing to place and secure the holder accurately
in any position.

In testimony whereof I have affixed my
signature, in presence of two witnesses.

JOHN B. COE.

Witnesses:

C. F. BROWN,
P. W. PEZZETTI.