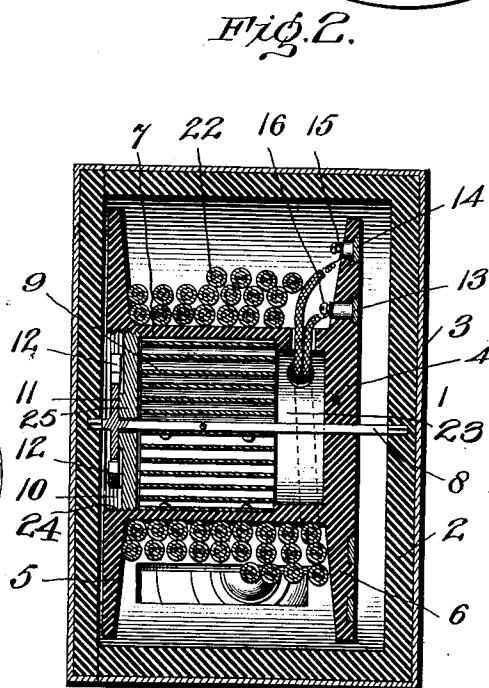
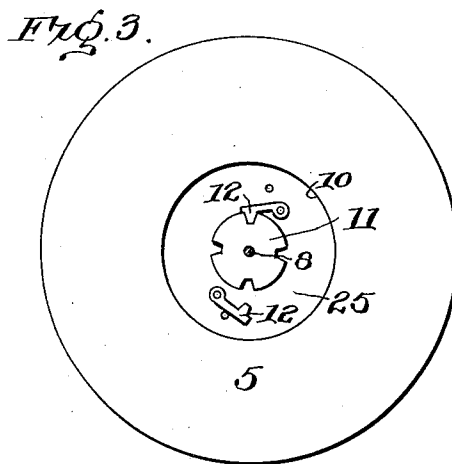
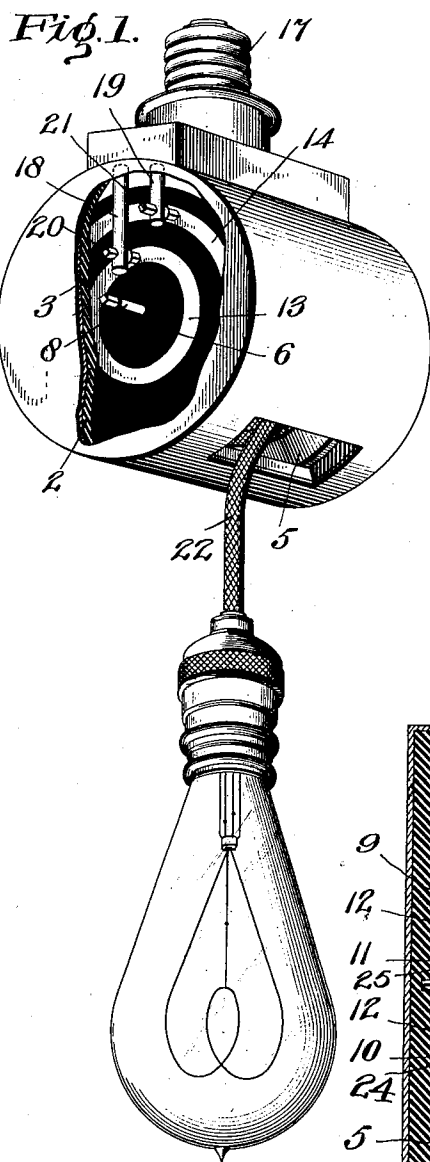


No. 854,554.

PATENTED MAY 21, 1907.

J. F. BARRETT.
ELECTRIC LIGHT FIXTURE.
APPLICATION FILED MAR. 16, 1906.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN F. BARRETT, OF CHICAGO, ILLINOIS.

ELECTRIC-LIGHT FIXTURE.

No. 854,554.

Specification of Letters Patent.

Patented May 21, 1907.

Application filed March 16, 1906. Serial No. 308,464.

To all whom it may concern:

Be it known that I, JOHN F. BARRETT, temporarily in New Orleans, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Electric-Light Fixtures; 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.

This invention relates to improvements in electric light fixtures and more particularly to fixtures that are adapted to allow the light to be moved from place to place and retracted at will.

The invention comprises the production of means for winding a cable of electric wire thereon, an electric light attached thereto and means connecting said cable to any suitable source of electric energy.

It further consists in the production of an electric light fixture that may be removed at will but still capable of permitting the light to be moved from place to place as may be desired.

The object in view is the production of means for permitting electric light to be lowered and raised as may be desired and supported in either its lowered or raised position.

Another object is the production of an electric light fixture adapted to be adjustably connected to any suitable source of electrical energy and provided with a suitable path for the flow of current to the lamp supported by the said fixture.

With these and other objects in view, the invention comprises certain novel constructions, combinations and arrangements of parts as will be hereinafter fully described and claimed.

In the accompanying drawings:—Figure 1 is a perspective view of one embodiment of the present invention, certain parts being broken away. Fig. 2 is a vertical section through Fig. 1. Fig. 3 is an end view of the ratchet mechanism.

In the preferred embodiment of my invention, I provide a suitable casing as 1, made from insulating material 2 and preferably covered with a metal casing as 3. Within this casing is mounted a drum 4 of peculiar construction and specially adapted to accomplish the results desired to be attained in this invention. This drum is formed in the shape of a spool having large flaring ends as 5 and 6

which are preferably made from insulating material and formed integral with the main body 7 of the drum 4. The drum is provided with a large central chamber 23 having a screw threaded portion 24 at its open end. Passing through the center of the drum 4 is a shaft 8 squared part of its length, upon which is mounted a spring 9. This spring 9 is secured in any suitable way to the squared portion of the shaft 8 and is also secured in any suitable manner to the body portion 7 of the drum 4, so when the drum is revolved it will bring the spring under tension. The cap 25 screws into the opening in the chamber 33 and is so positioned that a recessed portion 10 is formed in the end 5 of the spool 4, for the accommodation of a ratchet 11, which is engaged by any suitable number of pawls 12.

The pawls 12 are mounted upon the cap 25, while the ratchet 11 is mounted on the squared portion of the shaft 8 so that when the drum is revolved in one direction, the spring 9 is brought under tension and retained in such condition by means of the pawls 12 engaging the ratchet wheel 11. The ratchet wheel 11 as is shown in Fig. 2, is rigidly secured to the shaft 8 and the shaft 8 has its squared end fitted into a squared aperture in the casing 2. When it is desired to revolve the drum so as to unwind the spring, it is first revolved in a direction to bring the spring under tension until the pawls 12 have become disengaged from their ratchet wheel 11, and then the drum is allowed to revolve freely under the impulse of the spring 9.

Located in the flanged end 6 are two conducting rings 13 and 14 which form an important feature in my invention. These rings are preferably embedded within the end 6 so as to come flush with the surface thereof. Upon the drum is wound a suitable cable 22 containing electric wires which have their ends secured to projections 15 and 16 respectively. These projections are formed integral with or rigidly secured to the rings 13 and 14.

Secured to the casing 1 in any suitable way, is a screw threaded nipple 17 adapted to be lifted into any suitable socket. Wires from any suitable source of electric generation are conducted through the nipple 17 and connected to springs 18 and 19 which carry suitable contact brushes 20 and 21. These contact brushes engage the rings 13 and 14 so as to complete the circuit for a current of electricity. A current of electricity

coming from any suitable source passes through spring 18, brush 21, ring 13, projections 16 through one of the wires in the cable 22 wound on the drum 4, through any suitable lamp, through the other wire in the cable 22, thence through ring 14, brush 20, spring 19 and back to the source of generation.

In operation, when it is desired to move the lamp away from the fixture, it is only necessary to pull upon the cable 22 which will revolve the drum 4 and bring under tension spring 9. When the drum 4 stops revolving, the pawls 12 will drop into their places in the ratchet wheel 11 and thus sustain the light in its adjusted position. When it is desired to move the light nearer the fixture, it is only necessary to pull upon the cable 22 until the drum 4 is revolved sufficiently to disengage the pawls 12 from the ratchet wheel 11 and then allow the spring 9 to rewind the cable upon the drum until the light has been placed in the position desired.

Having now described my invention, what I claim as new and desire to secure by Letters Patent is:—

In an electric lamp fixture, the combination with a cylindrical casing provided with a slot and socket portion, a stationary shaft

mounted in said casing, a cylindrical drum having extended ends revolubly mounted on said shaft, a spring inside of said drum and attached to said drum, and to said shaft, a screw threaded opening in one end of said drum leading into the large central chamber in said drum, a cap screwing into said opening to a depth sufficient to form a recess in the open end of said drum, a ratchet mechanism located within said recess and mounted on said cap and said shaft, flexible electrical connections wound upon said drum, one end of said connections being attached to lugs extending inwardly through the flanged ends of said drum, a lamp supported by the other end of said connections which connections pass out through the slot in said casing, and spring pressed brushes bearing against one end of said drum whereby an electric current may be constantly passed through said drum, substantially as described.

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

JOHN F. BARRETT.

Witnesses:

WILLIAM VOEGLE,
BERTRAND J. CAHN.