J. I. STEEN.

DROP LIGHT.

APPLICATION FILED DEC. 8, 1913.

1,159,124. Patented Nov. 2, 1915.

Fig. 1.

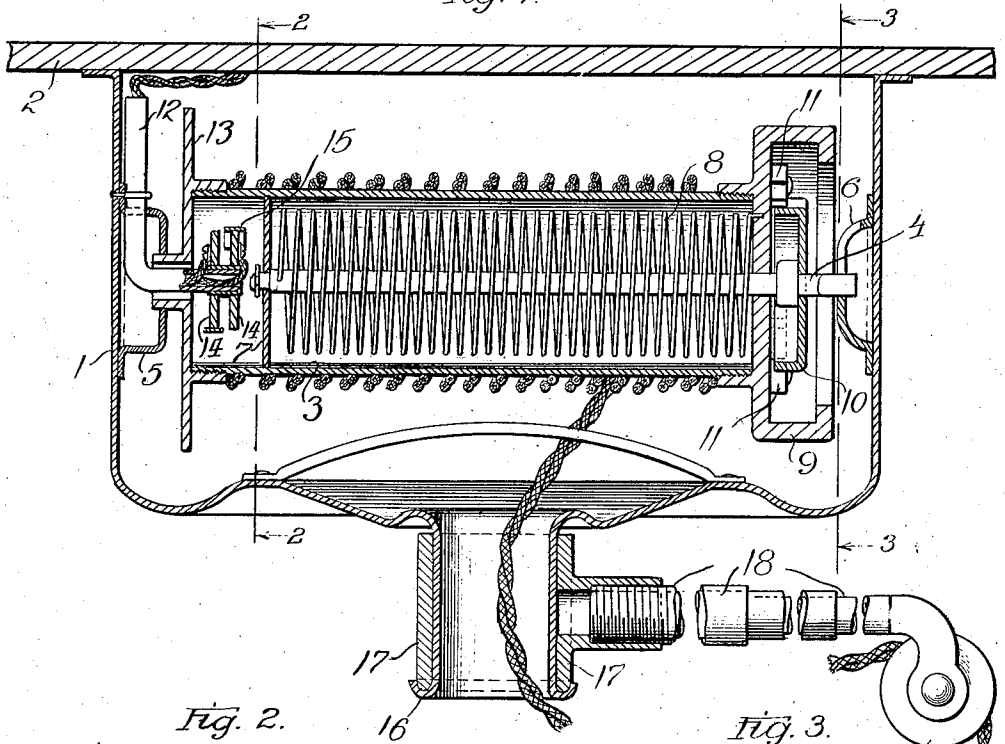


Fig. 2.

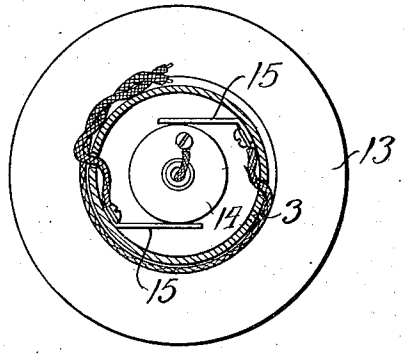
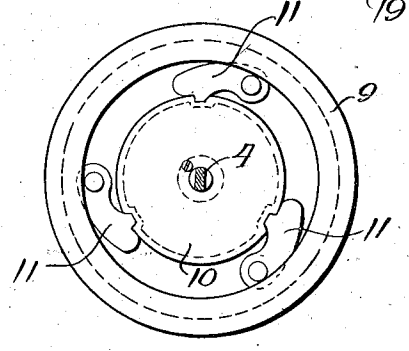


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN I. STEEN, OF BAKERSFIELD, CALIFORNIA.

DROP-LIGHT.

1,159,124. Specification of Letters Patent. Patented Nov. 2, 1915.

Application filed December 8, 1913. Serial No. 805,381.

To all whom it may concern:

Be it known that I, JOHN I. STEEN, a citizen of the United States, residing at Bakersfield, in the county of Kern and State of California, have invented certain new and useful Improvements in Drop-Lights, of which the following is a specification.

This invention relates to improvements in electric drop lights of that class in which a cord conductor is wound upon a rotary member or take-up medium so that the lamp can be raised or lowered and adjusted at any desired position. Novel means for supporting the light in any desired position are also provided.

With the foregoing and other objects in view the invention consists in the combination and arrangement of parts to be hereinafter fully described in the following specification, pointed out in the claims and illustrated in the accompanying drawing, which forms a part of said specification and in which—

Figure 1 is a vertical section through my improved lamp. Fig. 2 is a section taken on line 2—2 of Fig. 1. Fig. 3 is a section taken on line 3—3 of Fig. 1.

Like reference characters indicate corresponding parts throughout the several views.

1 designates a casing, which may be attached to the ceiling 2, and within said casing a rotary drum 3 is journaled upon a stationary shaft 4; said drum being supported at one end in a bracket 5 secured to the casing and the shaft 4 being terminally supported in a bracket 6 secured to the casing. The interior of the drum 3 is partitioned as at 7 through which partition the shaft 4 is projected and in one partitioned space of said drum a spiral spring 8 is disposed, having one end secured to shaft 4 and the other end secured to the hollow disk 9 carried by the drum 3 and rotating with the same. The purpose of the spring is to rotate the drum upon the shaft. Within the disk 9 is a head 10 secured to the shaft 4 adjacent the end of the drum and the periphery of the head is formed with nitches, adapted to receive the spurs of dogs 11 secured to the drum whereby the drum may be locked against rotation.

A conduit 12 secured to the casing 1 enters the opposite end of the drum and through the same the service wires 13 extend to stationary disks 14, 14, which are insulated from each other and disposed upon the end of the conduit 12, in contact with the rotary brushes 15, 15 secured to and rotating with the drum 3. Secured to the brushes are service wires which pass through openings in the drum 3 and are then wound about the same and extend through an orifice 16 to the light globe (not shown). The orifice 16 pivotally carries a bracket 17 in which a telescoping arm 18 is retained that terminally carries a pulley 19 over which the service wires pass. The construction of the bracket 17 and arm 18 are such that the light can be moved in a circle about the bracket 16 as a center, or the light can be projected horizontally toward or away from said bracket; the raising and lowering of the light is effected through rotation of the drum 3.

What is claimed is:—

In a drop light in combination with a casing having an orifice terminating in an upturned flange, a bracket secured to said casing, a rotary partitioned drum within said casing and supported at one end by said bracket, a hollow disk secured to said drum, another bracket secured to said casing, a stationary shaft connecting said last named bracket and the partition in said rotary drum and forming a bearing for the last named member and for the said hollow disk, a spring connecting said shaft and said hollow disk, a circular niched head within said hollow disk fast upon said stationary shaft, dogs carried by said drum in the plane of said circular head and adapted for releasable locking engagement with the niched periphery thereof, a conduit carried by said casing, stationary disks terminally carried by said conduit and insulated from each other, rotary brushes carried by said drum and engaged by said disks, service wires extending through said conduit to said disks, service wires connected to said brushes and wound about said drum and projected through the said orifice in the casing, a bracket pivotally carried by the upturned flange of said orifice and a telescoping arm provided with a service wire support carried by said bracket.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two subscribing witnesses.

JOHN I. STEEN.

Witnesses:

C. F. MOORE,

GABE STONE.