

M. DORION.
 REEL FOR PORTABLE ELECTRIC LAMPS.
 APPLICATION FILED FEB. 2, 1918.

1,411,206.

Patented Mar. 28, 1922.

Fig. 1.

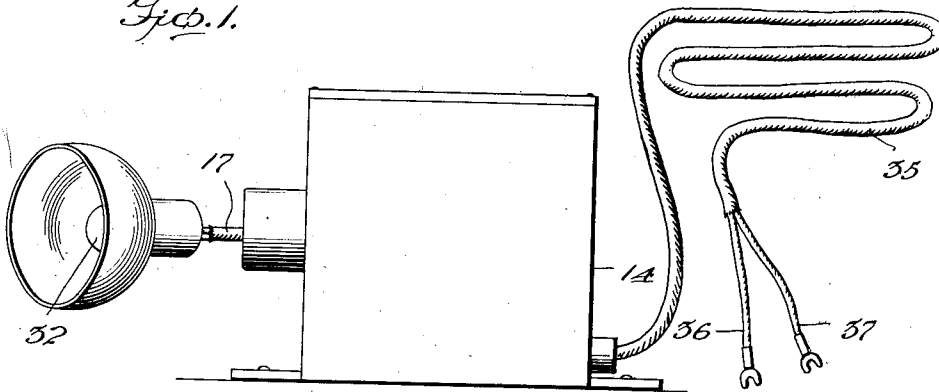
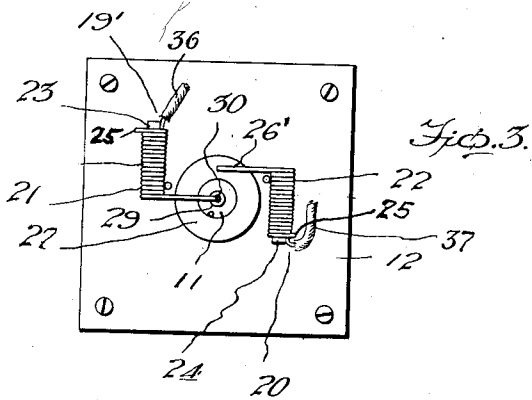
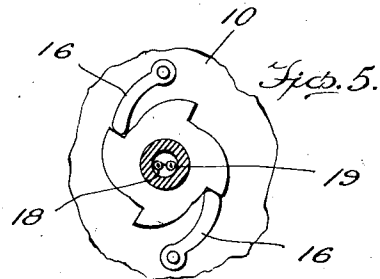


Fig. 4.

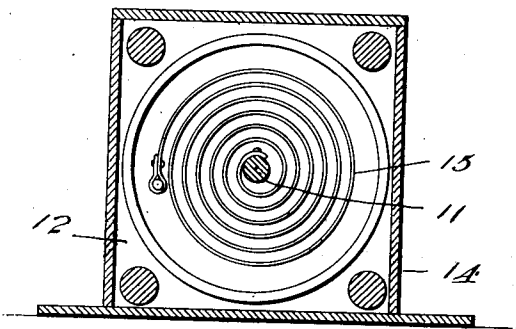
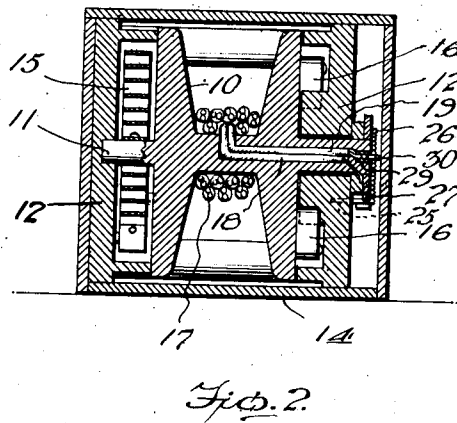


Fig. 2.

Witnesses:

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MICHAEL DORION, OF RUMFORD, MAINE.

REEL FOR PORTABLE ELECTRIC LAMPS.

1,411,206.

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Application filed February 2, 1918. Serial No. 215,183.

To all whom it may concern:

Be it known that I, MICHAEL DORION, a citizen of the United States, residing at Rumford, in the county of Oxford and State of Maine, have invented new and useful Improvements in Reels for Portable Electric Lamps, of which the following is a specification.

This invention relates to a reel for a portable electric lamp, and the object is to provide a device which may be installed in various positions, and may be shifted to the most convenient position for use when employing the light about an automobile, when employing the light for reading purposes, or when employing the light about any piece of machinery which it is desired to illuminate.

A further object is to provide a device of the type indicated which may be used in connection with electrically heated irons for laundry purposes and the like.

In the accompanying drawings.

Figure 1 is a view chiefly in elevation,

Figure 2 is a view in section.

Figure 3 is a view of the contact elements.

Figure 4 is a section through the casing, transversely of the shaft carrying the reel, and showing the coiled spring.

Figure 5 is a detail view showing the ratchet mechanism.

In carrying out my invention I provide a reel 10 mounted on a shaft 11 supported in housing members 12 which in turn are mounted in a suitable casing 14. One of these members 12 is recessed as shown for the accommodation of the coiled spring, and the other is recessed for the accommodation of the pawls of the ratchet mechanism. The reel 10 is controlled by coiled spring 15 and operates on the shade roller principle, the pawls being designated 16 and serving the usual function. A wire 17 includes a plurality of conductors 18 and 19, these conductors having connection respectively with terminals 19' and 20 comprising coiled springs 21 and 22 and pins 23 and 24 passing through said springs.

The ends of these springs are deflected as shown at 25 and pass into the members 12 of the frame work, thereby supporting the terminals in suitable position. Each spring

is provided at its opposite end with an outwardly extending member, one of these springs having a substantially straight member 26' which engages the surface of a metallic ring member 27 forming electrical contact therewith. This member 27 is in electrical connection with one of the conductors of wire 17, and the other of said conductors forming a part of wire 17 is in electrical connection with a central metallic element 29 having an opening in one end thereof into which the deflected end of one of the aforesaid springs projects, thereby establishing the necessary electrical connection. Elements 27 and 29 are insulated from each other.

The flexible wire 17 is of any suitable length and is wound upon the reel 10, the individual conductors 18 and 19 passing along the central element of the reel to the points indicated for establishing the electrical connection specified. The reel is of insulating material and tubular member 29 and ring member 27 are of conducting material.

The outer end of wire 17 leads to an electric lamp 32, which in view of the construction set forth, may be drawn to any suitable position, or to the most convenient position for use.

A wire 35 includes a plurality of conductors 36 and 37 connected respectively with the terminals 19' and 20 and leading thence to any suitable source of supply as a battery or lamp socket.

I claim:

In a winding device for a flexible electrical conductor, a rotatable element constituting a reel and including a central axial element and flanged elements having unobstructed outer surfaces, a casing including transverse elements provided with bearings for mounting the reel therebetween, one of the transverse elements being recessed, a coiled spring within the recess and connected with one end of the axial element, the other of said transverse elements being recessed and including a central member projecting into the recess, said member last named having teeth formed on the edge thereof, and pivoted engaging devices mounted on the adjacent flanged member

of the reel, for engaging the teeth, each of the transverse elements including a flange surrounding the recess therein and the edge of each flange abutting the adjacent flanged portion of the reel, for spacing the latter from the walls of the casing, and one of the transverse elements being spaced from the adjacent wall to form a chamber for housing devices permitting electrical connection with the ends of the aforesaid electrical conductor. 10

In testimony whereof I affix my signature.

MICHAEL DORION.