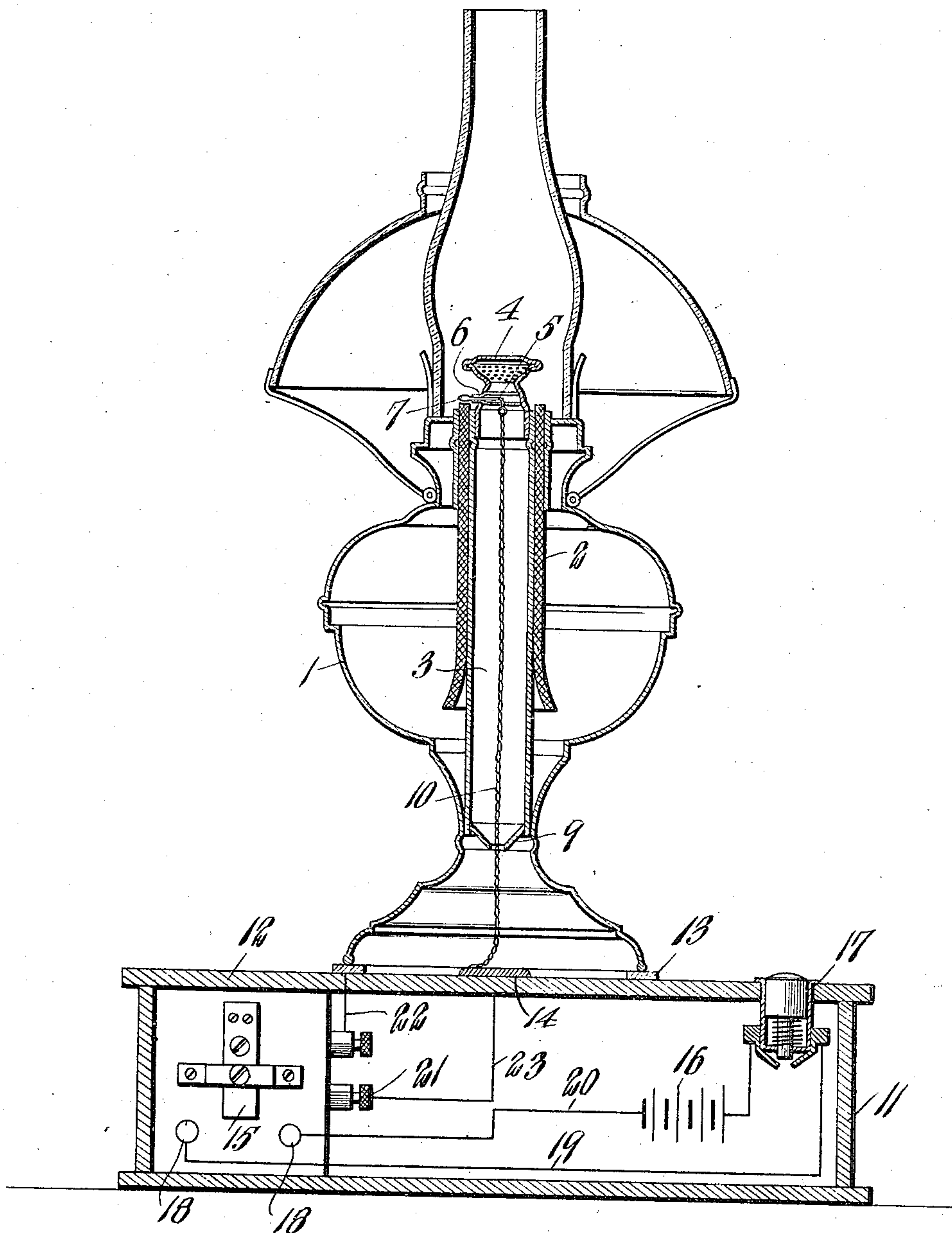


C. A. HACKER.  
LAMPLIGHTER.

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966,328.

Patented Aug. 2, 1910.



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# UNITED STATES PATENT OFFICE.

CLIFTON A. HACKER, OF FAIRHAVEN, MASSACHUSETTS.

## LAMPLIGHTER.

966,328.

Specification of Letters Patent.

Patented Aug. 2, 1910.

Application filed February 11, 1909. Serial No. 477,272.

*To all whom it may concern:*

Be it known that I, CLIFTON A. HACKER, a citizen of the United States, residing at Fairhaven, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Lamplighters, of which the following is a specification.

My invention is an improvement in lamplighters, and consists in certain novel constructions and combinations of parts, hereinafter described and claimed.

The object of the invention is to provide a device for igniting a round wick central draft oil lamp, by a spark, and to further provide mechanism whereby the electrical connection may be made with the lamp merely by setting the lamp on the stand.

Referring to the drawing forming a part hereof, the figure is a vertical section through the lamp and stand.

The lamp 1 is of metal and of usual construction, and is provided with a round wick 2, and a central draft tube 3. The upper end of the draft tube is closed by a removable cap or hood 4 of perforate material. A tube 5 of non-conducting material as glass or porcelain, is arranged transversely of the hood extending through one side thereof as at 6, and a conducting wire 7 is arranged in the tube, the outer end thereof extending above wick 8, and in suitable proximity to the metallic wick tube. The lower end of the draft tube has arranged therein an inverted cone shaped shield or funnel 9 of insulating material, and a chain 10 is connected by one end with the wire, the free end depending downward through the funnel, for a purpose to be presently described.

The stand 11 is shown as a box having a cover 12, provided with a ring 13 of conducting material, and of a size to fit the bottom of the lamp as shown, and at the center of the ring is a plate 14 also of conducting material, upon which rests the chain when the lamp is placed on the ring. A spark coil 15 of any preferred form is arranged within the box, as is also a battery 16, and a push button 17 is inserted in the cover. The terminals 18 of the primary of the coil are connected with the push button by wires 19 and 20, in one of which 20 is interposed the battery and the terminals 21 of the secondary are connected with the ring and the plates respectively by wires 22, 23.

It will be evident from the description, that when the push button is pressed to

close and open the circuit connected with the primary, the secondary circuit will be energized to cause a spark to jump the gap between the end of the wire in the insulating tube and the body of the lamp at the closest portion, which will be the wick tube.

I claim—

1. In a device of the character described, the combination with a lamp having a body of conducting material and a central draft tube, of an insulating tube arranged transversely of the draft tube, a conductor in the insulating tube, whose free end is spaced from the body to form a spark gap above the wick, a conducting chain depending from the conductor, an inverted cone shaped shield at the lower end of the draft tube having an opening at the center to permit the passage of the chain, a stand, a spark coil in the stand, a battery connected with the terminals of the primary, a push button in the connection, and a ring and a plate on the stand connected with the terminals of the secondary, the ring for engagement by the body of the lamp and the plate being within the ring for engagement by the chain.

2. In a device of the character described, the combination with a lamp having a body of conducting material and a central draft tube, of an insulating tube arranged transversely of the draft tube, a conductor in the insulating tube, whose free end is spaced from the body to form a spark gap above the wick, a conducting chain depending from the conductor, a stand, a coil in the stand, a battery connected with the terminals of the primary, a push button interposed in the connection, a ring and a plate on the stand connected with terminals of the secondary, the ring for engagement by the base of the lamp body and the plate for engagement by the chain.

3. In a device of the character described, the combination with a lamp having a body of conducting material and a central draft tube, of an insulating tube arranged transversely of the draft tube, a conductor in the insulating tube, whose free end is spaced from the body to form a spark gap above the wick, a conducting chain depending from the conductor, a stand, a coil in the stand, a battery connected with the terminals of the primary, a push button interposed in the connection, and contact pieces on the stand for engagement by the base of the lamp body and the chain respectively, said



pieces being connected with the terminals of the secondary.

4. In a device of the character described, the combination with a lamp having a body of conducting material and a central draft tube, of an insulating tube arranged transversely of the draft tube, a conductor in the insulating tube, whose free end is spaced from the body to form a spark gap above the wick, a conducting chain depending from the conductor, a stand provided with contact pieces for engagement by the base of the lamp body and the chains, when the lamp is placed on the stand, and a spark coil connected with the contact pieces.

5. The combination with a lamp having a body of conducting material and a central draft burner, of a sparker arranged above the wick of the burner, a stand provided with a ring for engagement by the base of the lamp body and a plate within the ring, and a chain of conducting material connected with one of the terminals of the sparker and depending through the draft opening for engaging the plate, the other terminal being connected with the lamp body, and a spark coil connected with the ring and plate.

6. The combination with a lamp having a body of conducting material and a central draft burner, of a sparker arranged above the wick of the burner, a stand provided with a ring for engagement by the base of the lamp body and a plate within the ring, a chain of conducting material connected with one of the terminals of the sparker and depending through the draft opening for engaging the plate, the other terminal being connected with the lamp body, a funnel shaped insulating shield having a central

opening for the chain arranged within the draft opening at the lower end thereof, and a spark coil connected with the ring and plate.

7. The combination with a lamp having a body of conducting material and a central draft opening, of a sparker arranged above the burner, a chain connected with one of the terminals of the sparker and depending through the draft opening, the other terminal being connected with the lamp body, a stand having contact plates upon which the lamp body and the chain rest, and a spark coil in connection with the plates.

8. The combination with a lamp having a body of conducting material and a central draft opening, of a sparker arranged above the burner, a flexible conductor connected with a terminal of the sparker and depending through the draft opening, the other terminal being connected with the lamp body, a stand having contact plates upon which the lamp body and conductor rest, and a spark coil in connection with the plates.

9. The combination with a lamp having a body of conducting material, of a sparking circuit having its terminals on opposite sides of the burner, a flexible conductor connected with one terminal and depending from the lamp, the other terminal being connected with the lamp body, and a stand having contact plates upon which the lamp body and the flexible conductor are adapted to rest, and a spark coil in connection with the plates.

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Witnesses:

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