

C. O. MATHEWS.
ELECTRIC CONNECTIONS FOR CARRIAGE LAMPS.
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Fig. 1.

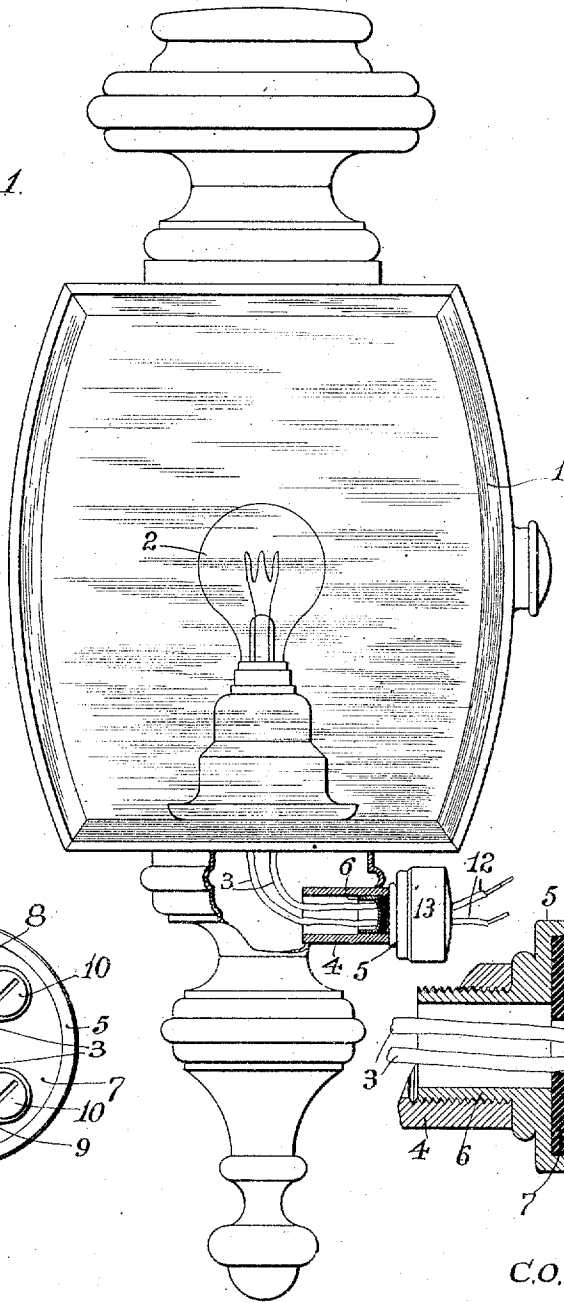
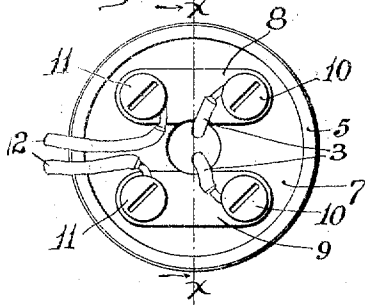


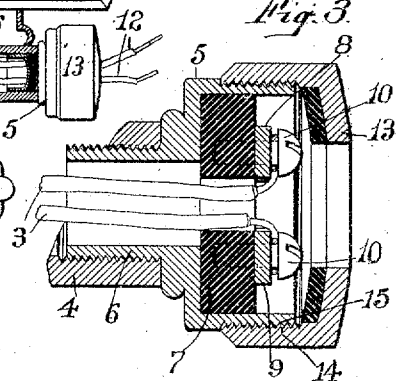
Fig. 2.



WITNESSES:

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Fig. 3.



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ELECTRIC CONNECTIONS FOR CARRIAGE-LAMPS.

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To all whom it may concern:

Be it known that I, CHARLES O. MATHEWS, a citizen of the United States, residing at Milford, county of New Haven, State of Connecticut, have invented certain new and useful Improvements in Electric Connections for Carriage-Lamps; and I do 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.

My invention relates to certain new and useful improvements in electric connections for carriage lamps, and has for its object simplicity of construction and facility with which lamps may be removed without severing any of the connections while at the same time the terminals of the connections that lead to the switch for opening and closing the circuit may be separated from the lamp terminals without actually cutting any of the connections.

With these ends in view my invention consists in the details of construction and combination of parts hereinafter fully set forth and then particularly pointed out in the claims which conclude this description.

In the accompanying drawing Figure 1 is an elevation, partly broken, of a lamp equipped with my improvement—Fig. 2 a detail face view of the connecting head and with the closure removed, and Fig. 3 a detail section at the line *x, x*, of Fig. 2.

Similar numbers of reference denote like parts in the several figures of the drawing.

1. is any suitable coach lamp equipped with an incandescent light 2, and 3 are the terminal wires leading from said light.

4 is an internally threaded sleeve soldered or otherwise secured to the body of the lamp and communicating with the interior thereof, and 5 is a head having projecting from the rear thereof an externally threaded hollow hub 6 which is driven within the threaded sleeve 4. Within this head is a disk 7 of insulating material, and blocks 8, 9, of brass or other suitable material having good conductivity, are confined to the face of said disk on opposite sides of the axial center thereof by means of binding screws 10, 11, that are driven through said blocks within said disk.

The terminal wires 3 from the lamp are

brought through the sleeve 4 and hub 6 and are connected to the blocks 8, 9, by means of the binding screws 10, while the terminal wires 12 which lead from any suitable switch for opening and closing the circuit are connected with said blocks by means of the binding screws 11, so that it will be clear that when the circuit is closed the lamp will be lighted.

I employ any suitable closure cap 13 through which the wires 12 pass, and this cap is internally threaded, as seen at 14, and is adapted to be driven upon the externally threaded portion 15 of the head so that the connections within the head may be protected against dirt and inclement weather.

It frequently happens that it becomes necessary to remove the lamp either for the purposes of repair or for other reasons, and this may be readily accomplished by merely removing the closure cap, allowing it to remain suspended from the wires 12, and then disconnecting said wires from the blocks 8, 9, whereupon the lamp may be removed.

In the event that it becomes necessary to remove the incandescent light and the terminals thereof, the wires 3 are simply disconnected from the blocks 8, 9, and are then withdrawn. It will thus be seen that in no instance is it necessary that any of the wires should be actually severed and also that good connections are assured.

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

1. In a device of the character described, the combination with an incandescent lamp, of an internally threaded sleeve secured to said lamp and communicating with the interior thereof, a head having an externally threaded hollow hub projecting from its rear face, said hub being screwed within said sleeve, said head having a circular continuous externally threaded flange extended from its front end, a disk of insulating material seated within the head, said disk having an opening at its center, oblong blocks of conductive material positioned on either side of the central axis of the disk and on the front face thereof, feed wires contacted alternately thereon, and a cover having an opening, said cover being engaged upon the external screw threads of the circular flange of the head, the whole providing a continu-

ous central passage throughout its entire length for the reception of feed wires.

2. In a device of the character described, in combination with an incandescent lamp, a sleeve secured to the lamp and extending outwardly from one side thereof, a head having an outwardly extending hub at one end secured to said sleeve at the outer end of the latter, a flange extending outwardly from the front end of the head, an insulating disk within the head having an opening which alines with the opening of the hub, blocks of conductive material carried by the disk on opposite sides of the opening there-

of, a cover secured to the flange of the head and formed with an opening which alines with the disk opening, and feed wires connected to the blocks, two of the wires extending through the opening in the disk and the hub and the other wires extending through the opening in the cover.

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

CHARLES O. MATHEWS.

Witnesses:

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