Jan. 5, 1926. 1,568,666

C. E. GODLEY

CONNECTER SLEEVE

Filed August 3, 1922

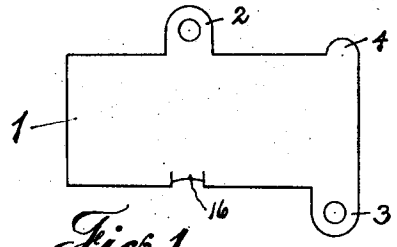


Fig. 1

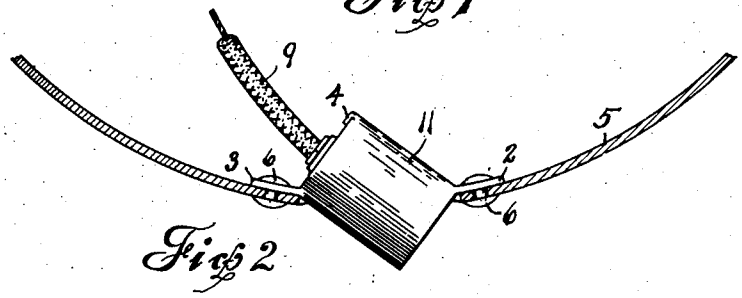


Fig. 2

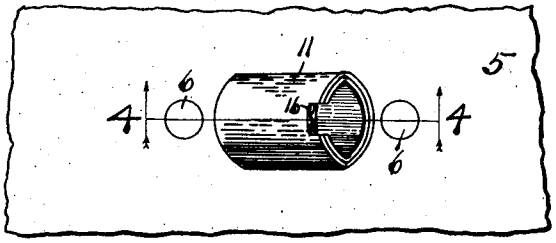


Fig. 3

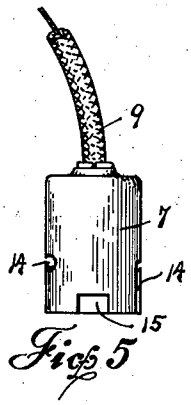


Fig. 5

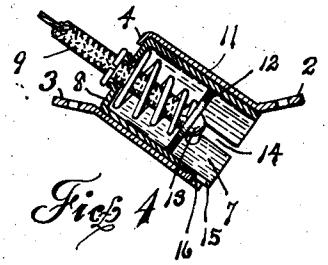


Fig. 4

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UNITED STATES PATENT OFFICE.

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CONNECTER SLEEVE.

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To all whom it may concern:

Be it known that I, CHARLES E. GODLEY, a citizen of the United States, and residing at Detroit, in the county of Wayne and State of Michigan, have invented a new and Improved Connecter Sleeve, of which the following is a specification.

My invention relates to means for mounting completely assembled electric connecters on supporting walls, such as the sides of automobile head lamps, and particularly for supporting such a connecter so that it will operatively extend through the supporting wall.

Connecters for such use commonly comprise cylindrical shells having spring-pressed plungers mounted within and insulated from the shells, each plunger being electrically connected at its inner ends to a wire leading to the lamp of the head light. Owing to the confined space between the casing or body of the lamp and the reflector mounted within this lamp body, it is desirable that such a connecter should pass obliquely through the wall of the casing or body so as to bring the wire within the lamp closer to this casing. At its outer end, each such connecter is commonly equipped for interlocking with a detachable wire carrying plug. Since the plug when attached extends axially of the shell of the connecter, it is likewise desirable to have the axis of the shell oblique to the wall through which it extends, thereby avoiding an unsightly projecting of the plug and wire from the lamp.

Furthermore, since the assembling of electric connecters involves the delicate manipulating of rather small parts, it is desirable that this should be done before any part of the connecter proper is attached to the lamp.

My present invention aims to meet all of these requirements by providing a cheaply manufactured mounting which can readily be attached to the lamp during the regular course of manufacture of the lamp, by providing this mounting so that it will be oblique with respect to the wall through which it extends, and by providing it with parts which can easily be bent into interlocking relation to an inserted (completely assembled) connecter to hold the latter in position. Moreover, it aims to provide a sleeve or connecter holder which can easily be manufactured from a single sheet metal stamping.

In the illustrated embodiment, my invention consists in a sheet metal blank rolled into a cylindrical sleeve which is adapted to receive a connecter and provided with ears at its ends so that the sleeve may be secured to a lamp body or other structure and with lips which may be turned in to secure the connecter within the sleeve. It further consists of a sleeve which is so formed that the ears will be in the same central plane of the sleeve but diagonally opposite each other so that the sleeve may be secured in an opening in the wall of a lamp body or other structure with its ends on opposite sides of said wall. It also consists of the details of construction illustrated in the accompanying drawing and particularly pointed out in the claims:

In the drawing, Fig. 1 is a plan of a blank for this improved connecter sleeve. Fig. 2 is an elevation of the sleeve in position in the wall of a lamp body on a central plane of the lamp body. Fig. 3 is an elevation thereof at right angles to Fig. 2. Fig. 4 is a section in the line 4—4 of Fig. 3. Fig. 5 is an elevation of a connecter. Similar reference letters refer to like parts throughout the several views.

Many of the reflecting lamps used as headlights and spotlights for motor vehicles and search lights for launches are provided with reflectors separate from the bodies. A sleeve or other holder is mounted in the wall of the body and into it extends a connecter at one end of the wire leading to the lamp bulb in the reflector. This connecter in the holder has an end open to the outside of the lamp to receive a removable connecter plug at the end of a conductor extending from a current source. The connecter is usually permanently secured in the wall of the lamp body.

In the present case the connecter sleeve 11 is formed of a blank 1 shown in Fig. 1,

having perforated ears 2 and 3 and a small lip 4. This blank is bent to cylindrical form and the ears 2 and 3 are then attached to the wall 5 of the lamp body by means of rivets 6.

The connecter forms no part of the present invention but consists of a tubular body 7 having a perforated end 8 through which the conductor 9 extends. A spring 10 within the connecter presses out against the washer 12 of insulating material and this washer presses against the contact 13 at the end of the conductor. The body 7 has bayonet slots 14 to receive the usual retaining pins on the cylindrical plug which is usually attached to the end of the supply conductor, which plug is inserted in the connecter body 7. This body 7 is also formed with a notch 15 to receive the tongue 16 formed on the sleeve to prevent movement of the connecter in one direction, movement in the other direction being prevented by the lip 4 when bent down as shown in Fig. 2.

The connecter sleeve is preferably attached to the lamp body while that is being produced by punching an elongated opening and a pair of rivet holes at opposite ends thereof, inserting the connecter sleeve with both of its ears bearing against the same face of the wall, and then riveting the ears to the wall. Later on, as the lamp is being wired, the connecter is inserted and the lip 4 is bent down against it and I prefer to secure the ears 2 and 3 to the same side of the wall 5 of the body. The size of the sleeve 11 will depend upon the size of the connecter 7 to be mounted therein.

I claim:

1. A cylindrical connecter sleeve having perforated ears at its ends and inwardly turned lips and a connecter within the sleeve secured in position by said lips.

2. A cylindrical connecter sleeve having perforated ears at its ends in a central longitudinal plane whereby it may be secured in position, said ears being diagonally opposite each other, said sleeve also having an inwardly turned lip at one end and a second lip adjacent the other end, and a connecter mounted within the sleeve and secured in position by the lips.

3. In combination, a cylindrical connecter sleeve and a tubular body mounted therein, the connecter sleeve being formed with tongues at its ends projecting inwardly to secure the tubular body in position, the sleeve being also formed with a perforated ear at each end, said ears being diagonally opposite each other and adapted to lie flat against a cup-shaped body to support the sleeve thereon with its open ends on opposite sides of the support.

4. A mounting sleeve as per claim 1, having a pair of lips formed therefrom and adapted to be bent respectively into engagement with forward and rearward portions of the inserted connecter, one of the lips being adapted to prevent the connecter from rotating.

CHARLES E. GODLEY.