

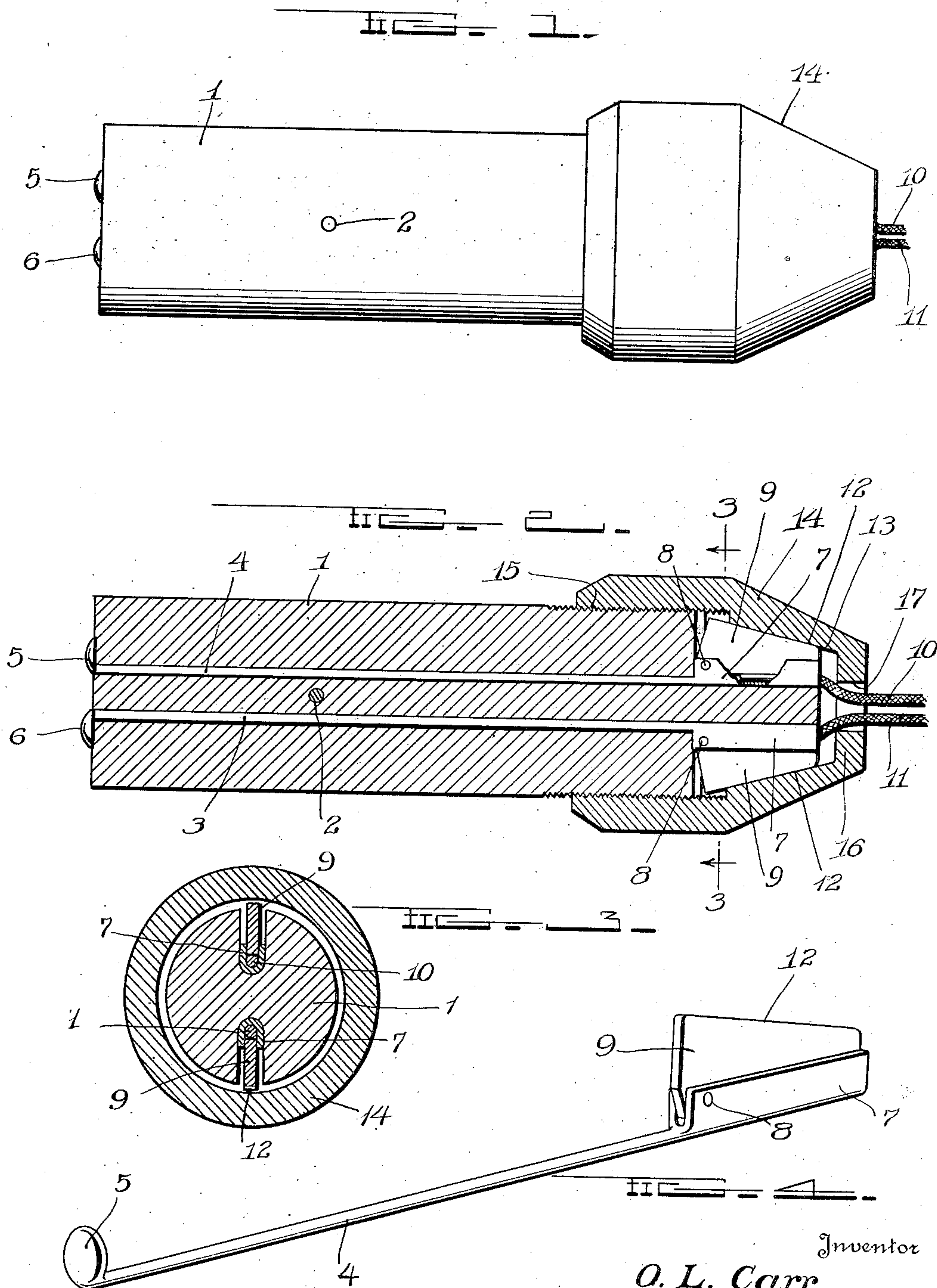
June 19, 1923.

O. L. CARR

1,459,651

HEADLIGHT PLUG

Filed Oct. 24, 1921



Inventor
O. L. Carr

By *Wilkinson & Giusta*

Attorneys

UNITED STATES PATENT OFFICE.

OSCAR LEMONT CARR, OF BATON ROUGE, LOUISIANA.

HEADLIGHT PLUG.

Application filed October 24, 1921. Serial No. 510,032.

To all whom it may concern:

Be it known that I, OSCAR L. CARR, a citizen of the United States, residing at Baton Rouge, in the parish of East Baton Rouge and State of Louisiana, have invented certain new and useful Improvements in Headlight Plugs; and I do hereby 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.

The present invention relates to improvements in head light plugs and has for an object to provide a plug of this or other description involving a novel and improved device for holding the wires without the aid of screws such as now used or other parts or fastenings that are apt to become loose with the vibration and jarring of automobiles incident to travel, and which often results in the interrupting of the light circuit.

Another object of the invention resides in providing an improved plug for use more particularly in conjunction with automobile head lights in which the parts are few and simple and the device susceptible of inexpensive manufacture and wherein access to the parts may readily at all times be had.

With the foregoing and other objects in view, the invention will be more fully described hereinafter, and will be more particularly pointed out in the claim appended hereto.

In the drawings, wherein like symbols refer to like or corresponding parts throughout the several views,

Fig. 1 is a side view of an improved plug constructed according to the present invention;

Fig. 2 is a longitudinal sectional view therethrough;

Fig. 3 is a transverse sectional view taken on the line 3—3 in Fig. 2; and,

Fig. 4 is a perspective view of a detail.

Referring more particularly to the drawings, wherein only a single embodiment of the invention is disclosed, 1 designates the body of the plug which is made after a customary fashion, for instance in the elongated cylindrical form with pins 2 projecting laterally from an intermediate part thereof to engage in the bayonet slots of the head light socket. The insulating body 1 is molded about the contact bars 3 and 4 hav-

ing at their outer ends the contact terminals 5 and 6 which project in the usual manner and are adapted to come into engagement with similar contacts in the lamp socket.

At their opposite ends each of the contact bars 3 and 4 are formed or provided with U-shaped stirrups or clips 7 open at both ends and having pivoted therein as indicated at 8 blocks 9 which move into the stirrups of clips and are adapted to bind the wires 10 and 11, which come from the battery, therein. The clips 7 are with advantage made in one piece with the contact bars, being stamped out of a blank therewith and subsequently folded into the parallel relation shown and at substantially right angles to their initial positions at the time of stamping.

A rivet may be passed through these clips and the block in order to form the connection shown at 8 in which the blocks may pivot into and out of the clips. The outer edges of the blocks 9 are beveled as indicated at 12 and cooperate with a wedge or frusto-conical surface 13 within a ferrule 14 which has screw threaded engagement with the insulating body 1 as represented at 15. The insulating body 1 is of course cut away to receive the clips and the blocks and to expose the wedge edges 12 of the blocks to the frusto-conical wall 13 of the ferrule. The ferrule is provided with a closed end 16 having a central perforation 17 to receive the wires 10 and 11.

In assembling the device, the ferrule 14 is initially disengaged and separated from the insulating body 1. The leads or wires 10 and 11 from the battery are stripped as to their end portions and these stripped parts inserted in the two clips 7 provided therefor. The blocks 9 are closed upon the wires in the clips and the ferrule 14 put upon the body 1 and turned about the threads 15 until such time as a good binding contact is had by the wedge block 9 upon the wires within the clip 7.

It will thus be seen that the use of screws, and the like devices are dispensed with and an exceedingly good contact is insured by the length of the clip 7 and block 9 which firmly hold an extensive end portion of the wires in elongated engagement with wide surfaces of the contact bar. The ferrule 14 may be adjusted from time to time to take

up any wear or loosening of the parts, and the ferrule may be quickly run off the body of the plug in case it is desired to secure access to the clips and wedge blocks as in the case of breakage of a wire.

The plug is in the usual manner put into the head light sockets with the pins 2 engaging the bayonet slots therein and the plugs subjected to a partial rotation whereby to arrive at a locking engagement in the slots.

It is obvious that various changes and modifications may be made in the details of construction and design of the above specifically described embodiment of this invention without departing from the spirit thereof, such changes and modifications being re-

stricted only by the scope of the following claim.

What is claimed is:

A plug of the character described comprising an insulated body having contact bars therein with terminal contacts thereon, said bars further being provided with clips at their inner ends opening in opposite directions, wedge blocks pivoted in the clips and having their outer faces beveled, and a ferrule having threaded engagement with the plug and provided with an inner frusto-conical wall moving in engagement with the beveled edges of the blocks, substantially as described.

OSCAR LEMONT CARR.