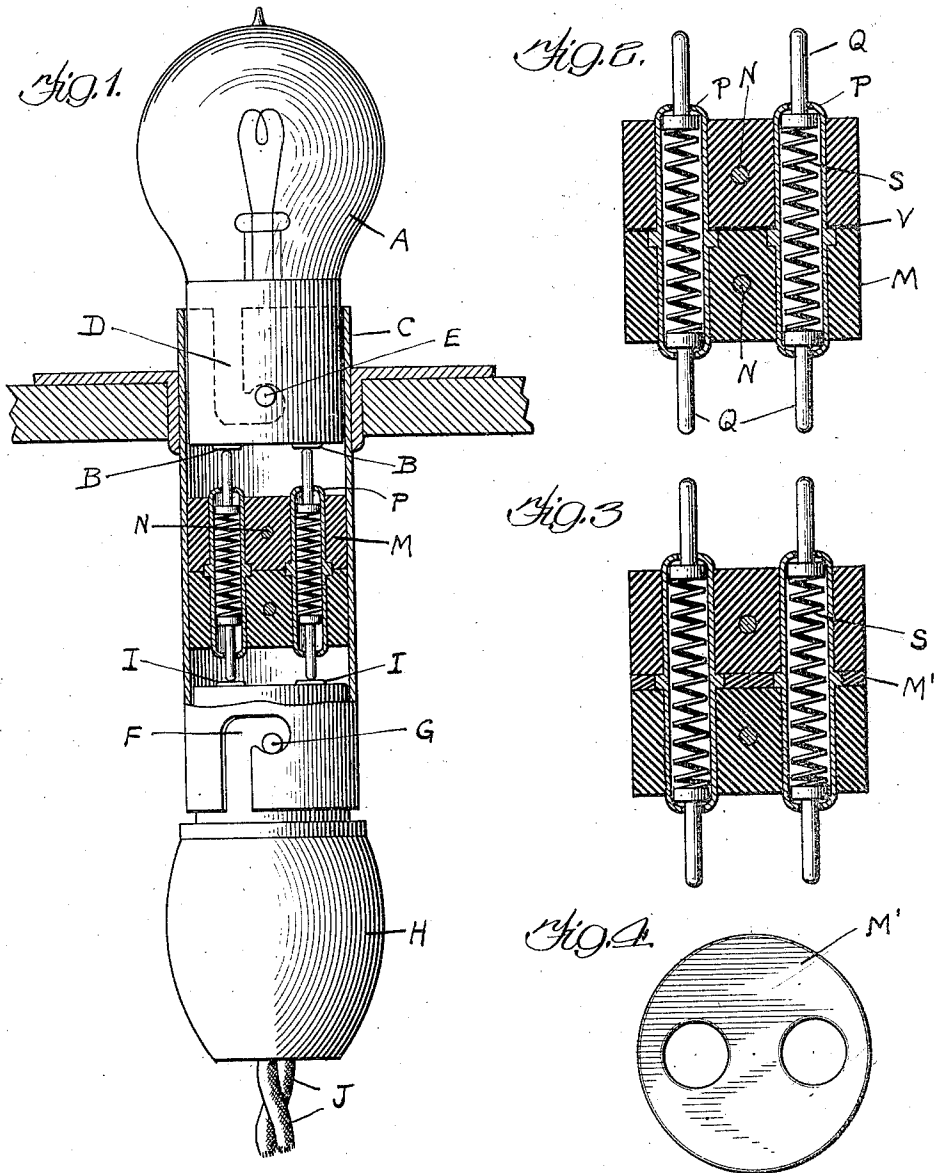


G. C. KNAUFF.  
 SOCKET FOR ELECTRIC LAMPS.  
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Witnesses:  
 W. Smith Jr.  
 Elsie Rohloff

Inventor:  
 George C. Knauff  
 By Albert Scheidt Attorney

# UNITED STATES PATENT OFFICE.

GEORGE C. KNAUFF, OF CHICAGO, ILLINOIS.

SOCKET FOR ELECTRIC LAMPS.

1,059,617.

Specification of Letters Patent.

Patented Apr. 22, 1913.

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*To all whom it may concern:*

Be it known that I, GEORGE C. KNAUFF, a citizen of the United States, residing at the city of Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Sockets for Electric Lamps, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, which form a part of this application.

My invention relates to the class of sockets having a detachable plug carrying the wire terminals.

It consists of a novel method of mounting the contact members which carry the current from the wire terminals to the lamp or other current consuming device, whereby these contact members are firmly supported but well insulated.

I attain these objects by the construction shown in the accompanying drawings, in which—

Figure 1 is a partial section of a socket embodying my invention. Fig. 2 is an enlarged longitudinal section through the insulating body and the contact carriers. Fig. 3 shows an alternative arrangement of the same. Fig. 4 is a plan view of the central insulating member shown in Fig. 3.

In the drawings, A is a lamp having terminals B B at the bottom of its base.

C is a cylindrical casing, preferably of nickeled brass, having diametrically opposite slots D for engaging the ends of a projecting pin E which passes through the lamp base. Similar slots F at the other end of the casing engage or interlock with projections G on a plug H which carries the terminals I of the wires J.

M is an insulating body, preferably of hard rubber, fastened within the casing C by pins N passing transversely through the body and the casing. The body M is made of a plurality of cylindrical parts having longitudinal perforations alining with each other when these parts are fastened in the casing by the transverse pins or rivets N.

P P are metal cylinders enlarged at or near their centers, the outside diameter of the unenlarged parts being such as to slip readily into the perforations in the insulating body. Each metal cylinder has a pair of contact plungers Q pressed outward by a spring S, the ends of the cylinder hav-

ing perforations through which the stems of these plungers project.

To allow for the central enlargement on each cylinder, I preferably counterbore one of the parts constituting the insulating body, as shown in Fig. 2, so that the enlargement abuts or impinges against the insulating body in each direction, thereby keeping the cylinder from moving longitudinally of the insulating body. I also preferably provide an insulating seal across the joint between the parts of the insulating body, such as a layer of insulating varnish V. Instead of counterboring one or both parts of the insulating body to make room for the enlarged parts of the cylinders, the enlarged bores may be made in a separate insulating cylinder or insulating spacer, as shown by M', in which case each face of M' is preferably coated with an insulating varnish when the parts are being assembled. By thus making the insulating body in longitudinal sections and allowing room intermediate of the sections for enlargements on the metal contact carriers, I obtain a simple, cheap, well insulated and firm support for these contact carriers.

While I have shown my invention as applied to a socket for an incandescent lamp, I do not wish to be limited to this use, as it is obvious that the device of my construction could be used for other purposes involving the carrying of current from one set of terminals to another. Neither do I wish to be limited to the exact embodiment pictured and described.

What I claim as new and desire to cover by Letters Patent is:

1. A socket including a casing having means for anchoring a lamp and a wire-terminal plug at its opposite ends respectively; a plurality of insulating members anchored within the casing; the said members having alined perforations parallel to their common axis; the contact members extending through the said perforations for carrying current from the terminals of the plug to the terminals of the lamp; each of the said contact members including a cylinder having an enlargement intermediate of its ends, the said enlargement abutting against adjoining ends of the insulating members.

2. A socket including a cylindrical casing having means for anchoring a lamp and a wire-terminal plug at its opposite ends

respectively; a plurality of cylindrical members of insulating material anchored within the casing, and an insulating spacer interposed between the adjoining ends of the cylindrical members; the said members and the said spacer having alined perforations parallel to their common axis; contact members extending through the said perforations for carrying current from the terminals of the plug to the terminals of the lamp; each contact member having an enlargement intermediate of its ends impinging upon the inner ends of the cylindrical members, whereby the contact members are retained in position in the cylindrical insulating members.

3. A socket including a cylindrical casing having means for anchoring a lamp

and a wire-terminal plug at its opposite ends respectively; a plurality of cylindrical members of insulating material anchored within the casing, the said members having alined perforations parallel to their common axis; and contact members extending through the said perforations for carrying current from the terminals of the plug to the terminals of the lamp; each of the said contact members including a cylinder having an enlargement intermediate of its ends, the said enlargement abutting against adjoining ends of the cylindrical members.

GEORGE C. KNAUFF.

Witnesses:

EDWARD J. KNAUFF,  
FILLMORE W. TODD.