April 8, 1924. 1,489,273

W. M. PARKER

SOCKET AND SHADE HOLDER RING

Filed July 1, 1921 2 Sheets-Sheet 1

Fig. 1.

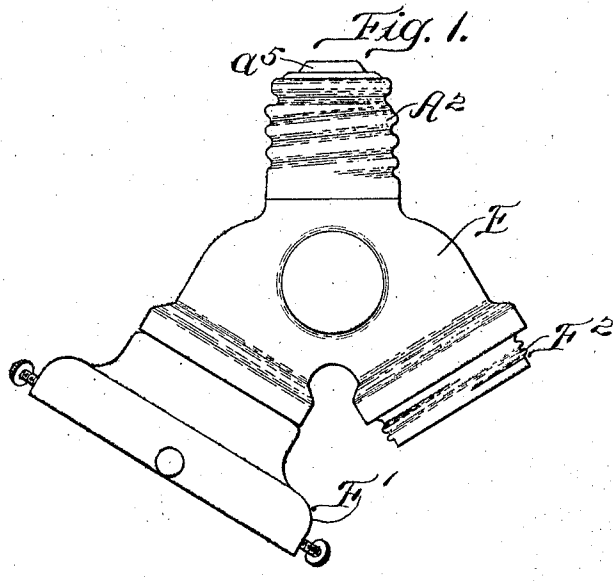


Fig. 2.

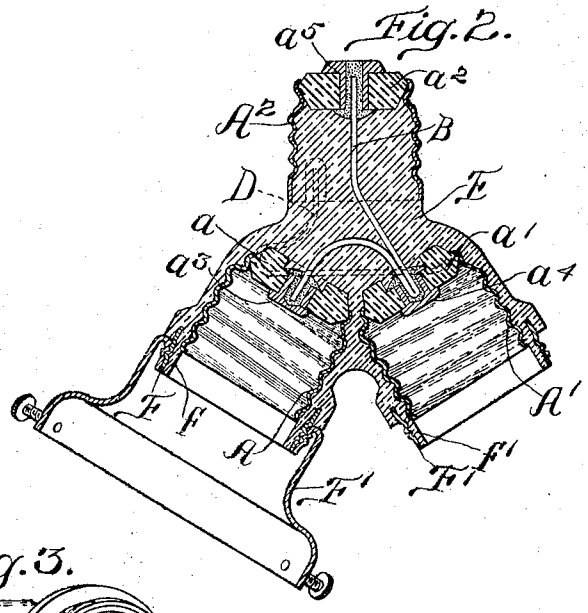
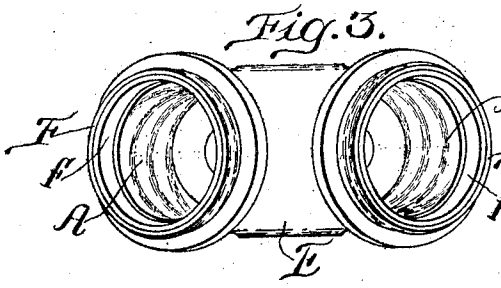


Fig. 3.



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Fig. 5.

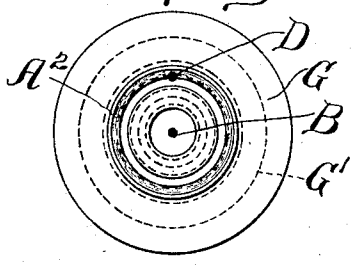


Fig. 4.

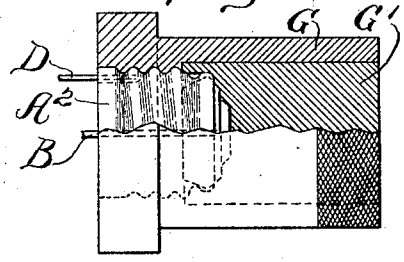


Fig. 7.

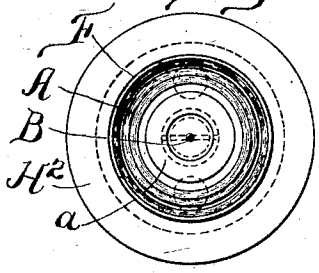


Fig. 6.

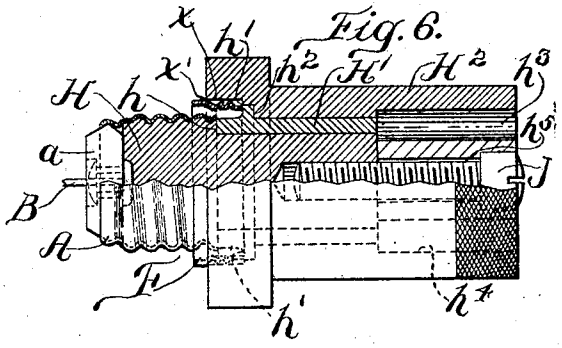


Fig. 10.



Fig. 8.

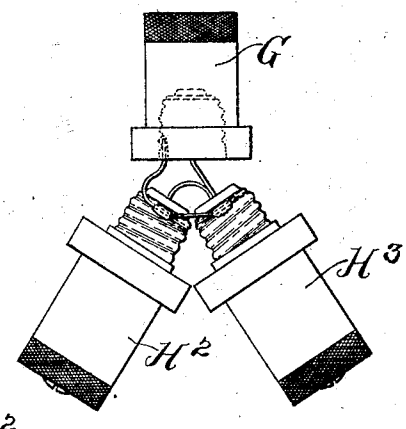
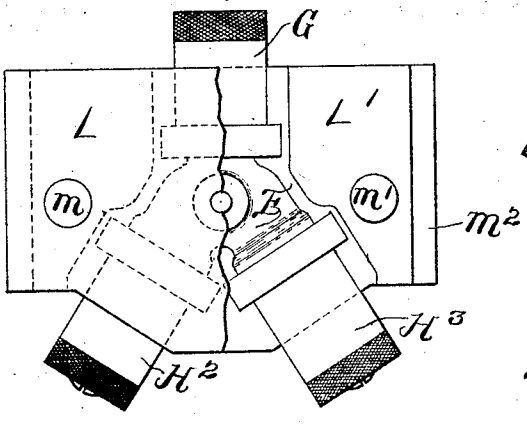


Fig. 9.



Inventor:
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Patented Apr. 8, 1924. 1,489,273

UNITED STATES PATENT OFFICE.

WILLIAM M. PARKER, OF PARKERSBURG, WEST VIRGINIA.

SOCKET AND SHADE HOLDER RING.

Application filed July 1, 1921. Serial No. 481,767.

To all whom it may concern:

Be it known that I, WILLIAM M. PARKER, a citizen of the United States, and resident of Parkersburg, in the county of Wood and State of West Virginia, have invented a new and useful Socket and Shade Holder Ring, of which the following is a specification.

The principal object of my invention is to provide a shade holder ring and an adjacent socket efficiently insulated from each other and held rigidly together, the whole device being economical from the manufacturing standpoint.

My invention consists partly in utilizing molded insulating material not only for an insulating casing but also to insulate the shade holder ring from the socket as well as to hold the ring in place in relation to the socket.

A feature of my invention is a shade holder ring formed with a shoulder.

Other features will be pointed out below.

In the drawing—

Figure 1 is an elevation of a plural socket embodying my invention and showing a shade holder in place;

Figure 2 is a central section of the device shown in Figure 1, with a shade holder;

Figure 3 is a bottom plan of the same, without the shade holder;

Figure 4 is a section, partly in elevation, of the core showing the plug shell in place;

Figure 5 is an end elevation of the parts shown in Figure 4;

Figure 6 is a section, partly in elevation, of another core showing the socket shell in place;

Figure 7 is an end elevation of the parts shown in Figure 6;

Figure 8 is an elevation showing the cores and parts of the socket assembled prior to molding;

Figure 9 is an elevation, partly in section, of the parts assembled in the mold; and

Figure 10 is a detail showing the shade holder ring in perspective.

I illustrate my invention as embodied in a plural socket having socket shells A and A′ to receive lamps, for example, and having plug A^2 to engage a fixture. Each socket and the plug are crimped to hold the porcelain pieces a, a' and a^2, each piece being provided with a rivet to act as a center contact, and each of these rivets a^3, a^4 and a^5 being provided with a central opening to receive by soldered connection the single stiff wire B which electrically connects all three centre contacts. The single stiff wire D is electrically connected internally with plug A^2 and externally with sockets A and A′.

Each wire is sufficiently stiff so that it will hold the sockets and plug in position with relation to each other for assembly prior to application of the insulating casing E which preferably consists of a shellac composition or coal tar product.

A shade holder ring F having an externally threaded portion is held by the casing material in suitable adjacency to socket A and is insulated by said material from said socket at f and shade holder F′ is screwed to said ring. A similar ring F^2 is provided in adjacency to socket A′ and insulated therefrom at f'.

Each ring has a threaded portion k and an unthreaded portion k' which is of a diameter at least equal to the outside diameter of the threaded portion.

In Figures 4 and 5 the plug A^2 is shown held in place in core comprising members G and G′.

In Figures 6 and 7 the shell A is in position in threaded engagement with the external threading of the core member H, which member is also internally threaded and has annular shoulder h. Core member H′ engages shoulder h and is provided with an annular shoulder h' which engages an annular shoulder h^2 on core member H^2, the latter being provided with wrench slots h^3 and h^4, a hole h^5 for the screw J and a shoulder to serve as an abutment for the inner portion of the head of the screw and also a recess x.

The shade holder ring F is placed with a fairly tight fit between members H′ and H^2, the outer part of the threading k engaging the wall of recess x and the unthreaded part engaging the corner x' so as to prevent the entrance of the molding material into the recess x and this is an important feature of my invention.

When member J is screwed up member H′ will be securely clamped between shoulders h and h^2.

A similar core H^3 will be used for shell

A′ and ring F² and the three cores above described are shown assembled with the shells, plug and wiring in Figure 6.

In Figure 9 the two-part mold L L′ is shown held in place by pins *m m′*, part L being broken away to show guide slot *m*² and showing the casing E molded in place, the material being molded to the inside of shell A² and around the wires B and D and outside of the shells A and A′ but also partially outside of the rings F and F² and also between shell A and ring F to provide insulation between them and also between shell A′ and ring F² to provide insulation between them, the shoulder portion *k′* of each ring preventing the molding material from reaching the threaded portion *k* and acting as an automatic cut off by the cooperation of the shoulder portion of the ring with the edge of the core.

When the molding is completed the device is removed from the mold and the cores are removed the material E at the outside of the rings forming abutments to limit the movement of the shade holders when screwed into place.

What I claim is:

1. A device of the character described comprising a conducting socket; a member to support a shade holder; and an external casing for the socket separate from said member and insulation between said socket and said member; said casing and insulation being integral and being permanently connected to said socket.

2. A device of the character described comprising a conducting socket; a member to support a shade holder; a shade holder supported by said member; and insulating material separate from said member and molded to the outside of said socket and to said member to hold said member in place and to insulate said member from said socket.

3. A device of the character described comprising a metal socket internally threaded to removably hold an electric lamp; a metal ring outside of said socket and externally threaded to engage a threaded shade holder, said ring extending outwardly and inwardly with reference to the outer edge of said socket; and insulating material molded to said socket and to said ring to hold the latter in place and extending between said socket and said inwardly extending portion of said ring, and lining said outwardly extending portion of the ring.

4. A device of the character described comprising a metal socket internally threaded to removably hold an electric lamp; a metal ring outside of said socket and having an externally threaded portion to engage a threaded shade holder and having another portion of a diameter at least as large as the outer diameter of the threaded portion, said ring extending outwardly and inwardly with reference to the outer edge of said socket; and insulating material molded to said socket and to said ring to hold the latter in place and extending between said socket and said inwardly extending portion of said ring and lining said outwardly extending portion of the ring.

5. A device of the character described comprising a metal socket; a metal ring externally threaded to engage a threaded shade holder, said ring extending outwardly with reference to the outer edge of said socket; and insulating material molded to said socket and said ring to hold the latter in place and to insulate the ring and socket from each other, said material forming also an abutment at the outside of said ring to limit the movement of the shade holder when screwed onto said ring.

6. A plural socket comprising a plug; two sockets; electrical connections between the plug and sockets; a metal shade holder ring for each socket; and material molded to the inside of said plug and to the outside of said connections and of said sockets and to both sides of said rings and forming insulation between said sockets and said rings.

7. A device of the character described comprising an interiorly threaded metal socket adapted to removably hold an electric lamp; a metal member formed to removably support a shade holder; and a permanent external insulating casing for the socket having an integral portion to form insulation between said socket and said member, said metal member having a vertical portion by which it is held to said casing.

8. A plural socket comprising a conducting shell for engagement with the conducting socket of a fixture; two interiorly threaded metal sockets adapted to removably hold electric lamps; electrical connections between said shell and said sockets; a metal member adjacent to each socket and formed to removably support a shade holder; and an external insulating casing for said sockets integrally extended to form insulation between said sockets and their adjacent members each of said metal members having a vertical portion by which it is held to said casing.

9. A plural socket comprising a conducting shell for engagement with the conducting sockect of a fixture; two interiorly threaded metal sockets adapted to removably hold electric lamps; electrical connections between said shell and said sockets; an insulating casing for said sockets; a metal ring adjacent to each socket and having a vertical portion embedded in said casing and having an exposed exteriorly threaded portion to engage the interior

threading of a shade holder, said casing having an integral portion forming insulation between each socket and its ring.

10. A device of the character described comprising a metal socket internally threaded to removably hold an electric lamp; a metal ring outside of said socket and formed with a shoulder and being externally threaded beyond said shoulder to engage a threaded shade holder; and insulating material separate from said member and molded to the outside of said socket and to the outside of said member as far as said shoulder to hold said member in place and to insulate said member from said socket.

WILLIAM M. PARKER.