

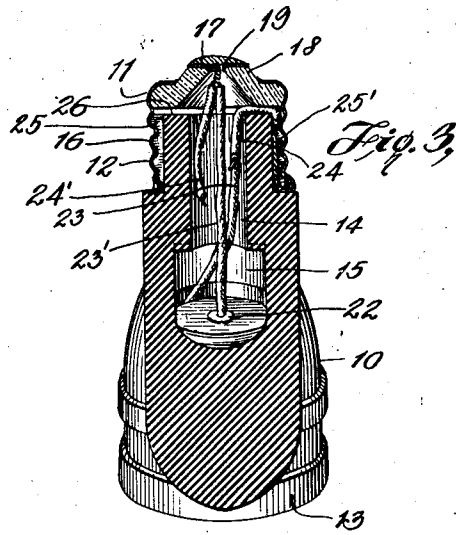
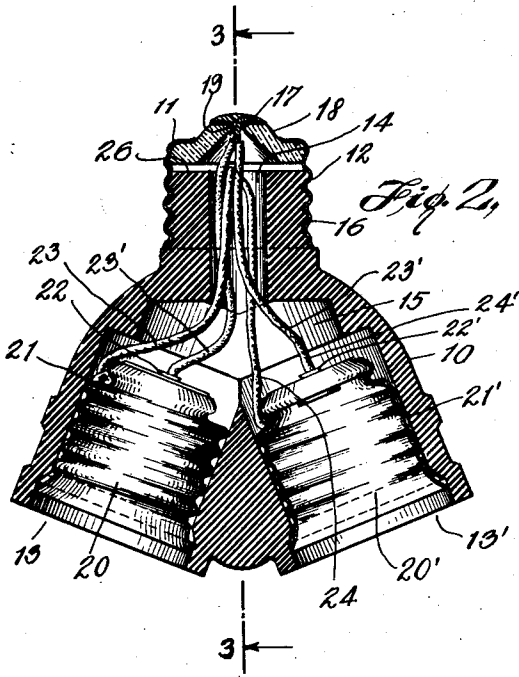
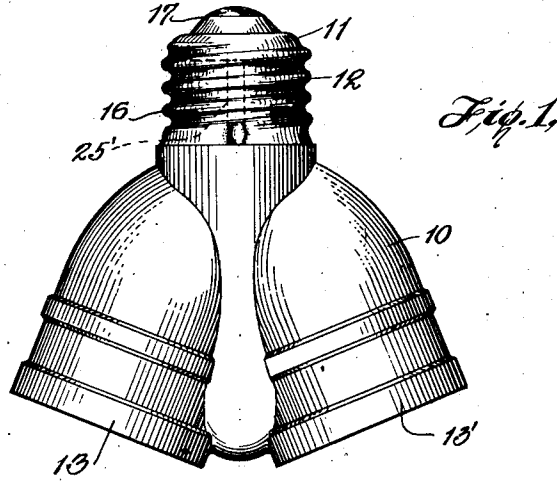
Sept. 21, 1926.

1,600,564

L. PROPP

ELECTRICAL PLUG SOCKET

Filed Nov. 14, 1921



INVENTOR
LOUIS PROPP
BY
Morris Hirschstein
ATTORNEY

UNITED STATES PATENT OFFICE.

LOUIS PROPP, OF NEW YORK, N. Y.

ELECTRICAL PLUG SOCKET.

Application filed November 14, 1921. Serial No. 514,910.

This invention relates to electric plug sockets. More particularly, it is directed to a plug socket of the cluster type adapted for use with a plurality of electrical appli-

5 ances.
One of the objects of the invention is to provide a device of the character described which shall be simple and compact in construction, comparatively cheap to manufacture and efficient in operation to a high degree.

10 Other objects of this invention will in part be obvious and in part hereinafter pointed out.

15 The invention accordingly consists in the features of construction, combinations of elements and arrangement of parts which will be exemplified in the construction hereinafter described and of which the scope of application will be indicated in the following claim.

In the accompanying drawings, in which is shown one of the various possible illustrative embodiments of this invention,

25 Fig. 1 is a front elevation of the device adapted for use with two electric lamps or appliances;

Fig. 2 is a longitudinal cross-section thereof; and

30 Fig. 3 is a section cut along line 3—3 of Fig. 2.

Referring in detail to the drawing, the embodiment of my invention there shown comprises an outer casing 10 of insulatory material such as composition or hard rubber, having a plug portion 11 exteriorly threaded as at 12 and integral socket portions 13 and 13'. An opening 14 disposed centrally in the plug portion 11 communicates with each of the socket portions by means of the interior channel 15 for the purpose hereinafter described. Threaded on the plug portion 11 is the screw contact shell 16 having a central contact cap 17 suitably insulated from the shell as by means of the insulation 18. A central opening 19 is provided in the cap for aiding and making the electrical connections. Similarly constructed threaded metallic screw shells 20, 20' are provided for each of the socket portions 13, 13' and are rigidly held therein.

In practice, the casing is preferably formed to the desired shape by casting the insulating material in a mold or by any

other suitable means. The metallic screw shells each having the flexible lead wires attached thereto as hereinafter described are then inserted into the socket portions 13, 13' and the wires drawn through the opening 14 via the channel 15. The metallic screw shells are then adjusted to the proper position and rigidly secured to the interior of the casing. This may be done by expanding the casing with heat and allowing the latter to contract on the metallic screw shells, or any other suitable practice may be employed.

Each of the threaded metallic screw shells 20, 20' comprises a threaded contact portion 21, and a central contact cap 22 suitably insulated therefrom, and is connected in multiple with the plug contact shell 16 in any suitable manner. Preferably, a pair of insulated flexible lead wires 23, 23' are connected respectively to the threaded portion 21 and the central contact cap 22 of the shell 20. Similarly, another pair of flexible lead wires 24, 24' are connected respectively to the contact portion 21' and the cap 22' of the shell 20'.

Lead wires 23, 24 and 23', 24' from like terminals of each shell are then connected to the plug portion 10 respectively to the screw contact shell 16 and the central contact cap 17 thereof. Each pair of like flexible lead wires 23, 24, and 23', 24' are drawn through the channel 15 and opening 14. One pair of lead wires such as 23, 24 are then bent over the top 26 of the plug portion 11 and forced into one of the grooves 25, 25', disposed diametrically opposite each other on the exterior face of the plug portions. The screw contact shell 16 is then screwed on the plug portion, the lead wires 23', 24' passing through the central opening 19. The pair of like wires are then connected electrically to the plug portion by soldering them respectively to the contact shell 16 and contact cap 17.

It will now be clear that the screw plug described may be easily manufactured with a minimum of parts and great economy in cost of labor and material. The shell is cast separately in one piece thus providing in one operation the threaded plug portion of the socket portions. The plug is then completed by assembling on the shell the contact making members, all of which may be standard parts, the contact shells employed

being those commonly in use in connection with plug sockets. By making the connection between the socket portions and plug portions through flexible leads, it is possible to make the casing in one piece as described and yet assemble the screw shells in the socket portions and make the connections therefrom to the plug with the completed casing. This is not possible where the connections between the socket portions of the plug are made through rigid metallic members around which the insulating casing would have to be poured.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention and as various changes might be made in the embodiment above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawings is to be inter-

preted as illustrative and not in a limiting sense.

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

An electric plug socket comprising a one-piece insulating casing having a plug portion, a plurality of socket portions having metal screw shells shrunk therein, said plug portion having a centrally disposed opening therein and said casing having an interior channel disposed below said opening and communicating with each of said socket portions, metallic contact members for said plug portion comprising a contact shell and a contact cap insulated therefrom and having an opening therein, and means within said casing for making electrical connection between said plug portion and said socket portion.

In testimony whereof I affix my signature.

LOUIS PROPP.