

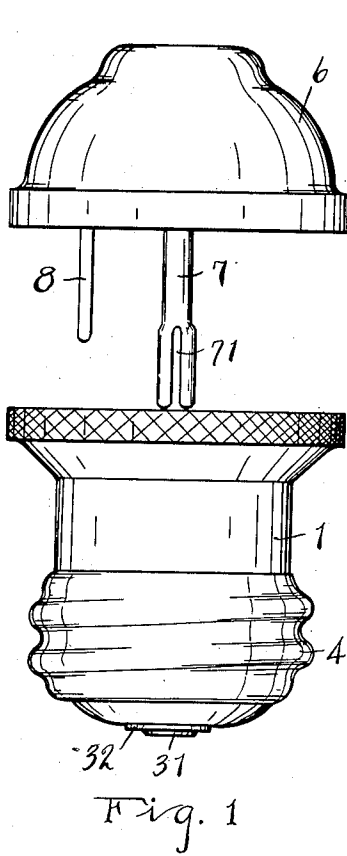
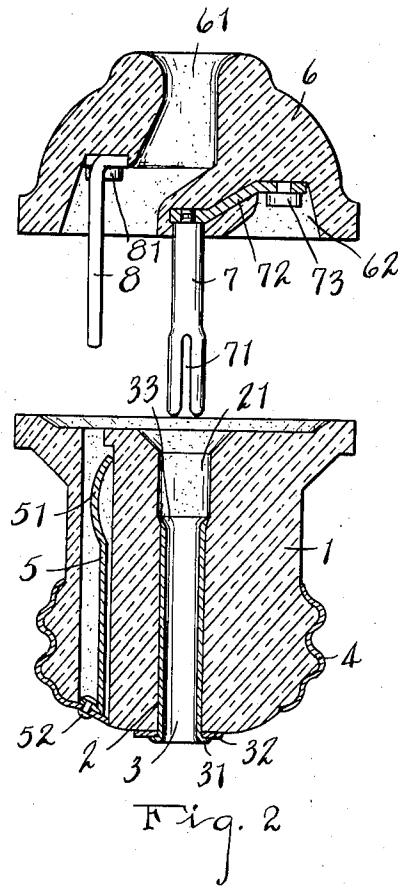
Sept. 11, 1928.

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1,684,166

PLUG FOR ELECTRIC LIGHT SOCKETS

Filed May 20, 1926



BY

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PLUG FOR ELECTRIC-LIGHT SOCKETS.

Application filed May 20, 1926. Serial No. 110,426.

The objects of the invention are:

First, to provide an improved separable plug so constructed as to secure quick and easy connection of the parts in the right relation.

Second, to provide an improved central post connection for such a device.

Third, to provide an improved lateral contact for such a device.

Objects pertaining to details and economies of my invention will definitely appear from the detailed description to follow. The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing forming a part of this application, in which:

Figure 1 is an elevation view of my improved plug in separated relation.

Fig. 2 is a longitudinal central sectional view, the central pin and lateral contact finger being shown in full lines to show details of construction.

The parts will be identified by their numerals of reference which are the same in both views.

1 is the porcelain of the screw plug. It contains a central bore 2 enlarged at 21 at its outer end. Within this central bore is the contact tube 3 which is expanded at 31 into engagement with the washer 32 at the inner end of the plug. The inner end of the tube towards the outer end of the plug is slightly expanded at 33 to retain the same effectively in position and to facilitate the introduction of the central contact pin. 4 is the metallic outer screw covering of the contact plug which is separated from the central tube by the insulation. 5 is the lateral contact spring which is convex at 51 at the contact point and riveted at 52 to the outer screw contact connection 4.

6 is the porcelain of the detachable part of the plug and it is provided with a central contact pin 7 which is slotted at 71 to make the same elastic for insertion into the contact tube 3. It is provided with a contact connection 72 terminating in connecting means 73 in the recess 62 in the said detachable plug. The porcelain 6 has a central opening 61 for the introduction of the cord. The lateral contact finger 8 is secured at 81 to the porcelain which provides connection for one part of the cord, the same being located

in recess 63 in said porcelain 6. I have not shown the cord.

I have described the parts of the plug as made of porcelain. Of course, any suitable insulating material can be made use of. The structure can be considerably varied without departing from my invention.

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

1. In a separable plug, the combination of a screw portion of insulating material having a central metallic contact tube disposed in a central bore therein, a suitable contact means at its outer end and expanded into an enlargement at its inner end adapted to retain the said tube and to guide a contact pin, a lateral electric contact spring with convex portion disposed in a lateral recess and a screw contact covering connected thereto, a detachable portion of said plug composed of the insulation block 6, a central pilot contact pin secured in the same and provided with suitable electric connections, and a contact finger shorter than the pilot contact pin disposed in a suitable recess and positioned to enter and coact with the lateral spring contact of the said screw portion of said plug, after the pilot pin has been inserted as specified.

2. In a separable plug, the combination of a screw portion of insulating material having a central metallic contact tube disposed in a central bore therein, a suitable contact means at its outer end, its inner end adapted to guide a contact pin, a lateral electric contact spring with convex portion disposed in a lateral recess and a screw contact covering connected thereto, a detachable portion of said plug composed of the insulation block 6, a central pilot contact pin secured in the same and provided with suitable electric connections, and a contact finger shorter than the pilot contact pin disposed in a suitable recess and positioned to enter and coact with the lateral spring contact of the said screw portion of said plug after the pilot pin has been inserted as specified.

3. In a separable plug, the combination of a screw portion of insulating material having a central metallic contact tube disposed in a central bore therein, a suitable contact means at its outer end, its inner end adapted to guide a contact pin, a lateral electric contact disposed in a lateral recess and a screw

contact covering connected thereto, a detachable portion of said plug composed of the insulation block 6, a central pilot contact pin secured in the same and provided with
5 suitable electric connections, and a contact finger shorter than the pilot contact pin positioned to enter and coast with the lateral

contact of the said screw portion of said plug after the pilot pin has been inserted as specified. 10

In witness whereof I have hereunto set my hand.

HARRY A. AUSTIN.