

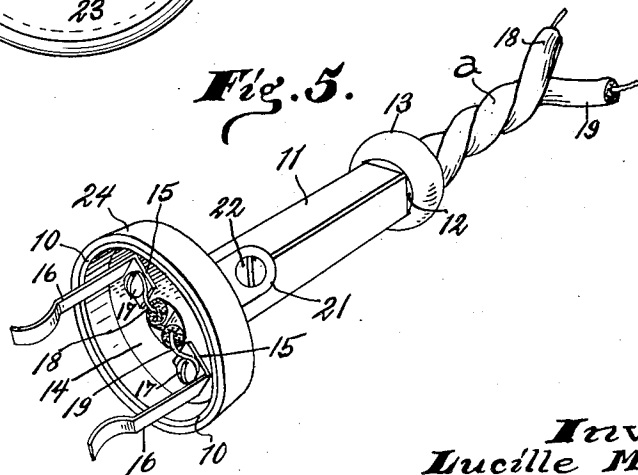
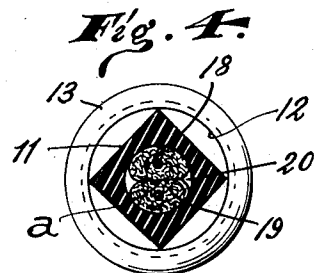
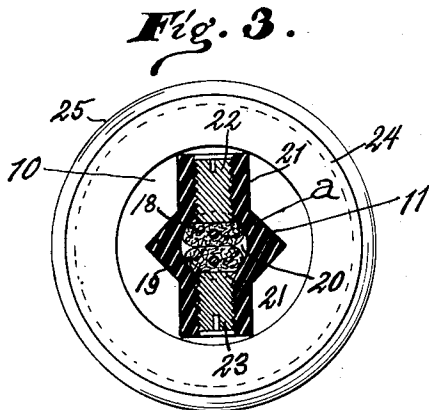
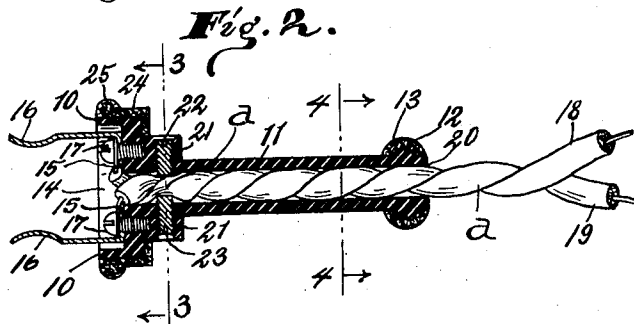
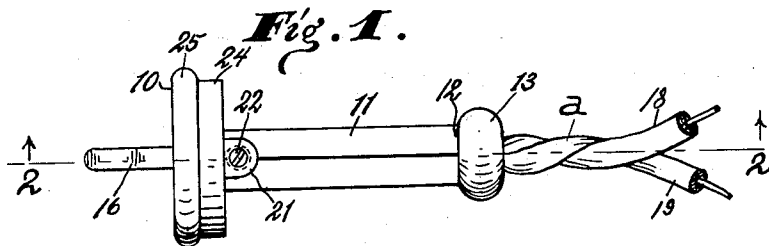
May 12, 1931.

L. MARTIN

1,804,474

PLUG FOR ELECTRIC CIRCUITS

Filed June 4, 1928



Inventor.
Lucille Martin.
by

Lockwood & Lockwood,
Her Attorneys.

UNITED STATES PATENT OFFICE

LUCILLE MARTIN, OF LONG BEACH, CALIFORNIA

PLUG FOR ELECTRIC CIRCUITS

Application filed June 4, 1928. Serial No. 282,842.

This invention relates to an improvement in a plug for an electric circuit socket, and an object thereof is to provide a plug having a handle by which it can be easily connected and disconnected to and from a circuit socket without loosening or breaking the wires of the cord from their respective contacts. That is, my improved plug includes a handle that can be grasped to connect or disconnect it to or from the socket so that no strain or pull need be applied to the cord.

Another object is to provide a plug having contact points and wire fastening screws that are easily accessible from the exterior of the plug so that they can be quickly assembled and secured in place to thereby save time and labor in assembling, replacing or repairing parts.

Also I provide oppositely arranged screws in the plug body that are adjustable toward or from one another to pinch the electric cord between their adjacent ends so that when a pull is inadvertently applied to the cord the strain will be resisted by the opposing screws and not applied to the connection between the ends of the wires and their respective contacts.

Features of invention are shown in the construction of the plug and in the combination and arrangement of parts connected thereto, whereby an appliance is provided that is neat and pleasing in appearance and durable and handy in use.

A feature of invention is shown in the means employed for protecting the plug against ordinary breakage.

Other objects, advantages and features of invention may appear from the accompanying drawings, the subjoined detailed description and the appended claim.

The accompanying drawings illustrate the invention.

Fig. 1 is a side view of an electric plug constructed in accordance with this invention. Fig. 2 is a central longitudinal section on the line 2—2, Fig. 1. Fig. 3 is an enlarged cross section on the line 3—3, Fig. 2; Fig. 4 is an enlarged cross section on line 4—4, Fig. 2; and Fig. 5 is a perspective view of the plug

showing the jacket for covering the body formed without the annular bead.

The plug comprises a cylindrical body 10 and an elongated rectangular, hollow handle 11 that are integral and formed of insulating material.

Preferably the handle is square or rectangular in cross section and terminates at its free end in an annular bead 12 to which a soft rubber cushion 13 is detachably secured, the purpose of which will be explained later.

The body 10 has an end recess at 14, into which the flanged ends 15 of the spring contacts 16 are extended and secured by screws 17 to which also are attached the exposed ends of the insulated wires 18, 19 that are twisted into the form of a cord and extended through the opening 20 in the handle 11. The contacts 16 and screws 17 are accessible from the exterior of the plug so they can be reached without disconnecting or removing the parts so the contacts can be easily and quickly assembled or replaced or repaired.

Integral with the body 10 and arranged on opposite sides of the handle 11 are semi-cylindrical bosses 21, through which a pair of opposing screws 22, 23 are extended so that their flattened inner ends pinchingly engage the cord and hold it so that a strain or pull inadvertently applied thereto will not loosen or break the connection of the wires 18, 19 to their respective contacts 16. The heads of the screws 22, 23 are easily accessible from the exterior of the plug so they can be reached for adjustment without removing or disconnecting any other part of the plug.

A soft rubber jacket 24, having an annular bead 25 is extended over the body 10 to protect it against ordinary breakage, which also is the purpose of the cushion 13. In other words, the cushion and jacket are arranged to protect the body and handle in the event the plug falls or is forcibly struck against a hard substance; it being understood that the material of which the plug is formed is easily broken, which is the case now with substantially all the plugs in use.

In operation the handle 11 is utilized both in connecting and disconnecting the plug

from a socket in an electrical circuit so that at no time is it necessary to use the cord for attaching or detaching the plug so that in ordinary use there is no strain on the cord to disconnect or loosen the wires from the contacts.

10 In the event that there is an inadvertent pull on the cord which otherwise would break or loosen the connection between the wires and contact the strain will be taken up by the opposing screws 22, 23 that are pinched down on the cord to prevent the strain from reaching the connection between the wires and contacts.

15 In the event that the plug is inadvertently dropped on the floor, or struck against a hard substance, the cushion and jacket under ordinary circumstances will prevent the plug from breaking.

20 I claim as my invention:

In a plug for an electric circuit socket, the combination of a cylindrical body having a recessed end, a soft rubber beaded jacket on said body, an elongated rectangular hollow
25 handle having one end integral with said body, an annular bead on the free end of said handle, a soft rubber cushion on said bead, spring contact points having flanges seated on the recessed end of said body, wires
30 extended through said hollow handle, screws for securing the ends of said wires and flanges of said contacts to said body, bosses integral with said handle and body, and
35 other screws extended through said bosses so as to pinchingly engage the wires extended through said handle, said screws and spring contacts arranged so that they are accessible from the exterior of said body and handle so the parts can be easily assembled,
40 replaced or repaired.

In witness whereof, I have hereunto affixed my signature.

LUCILLE MARTIN.