

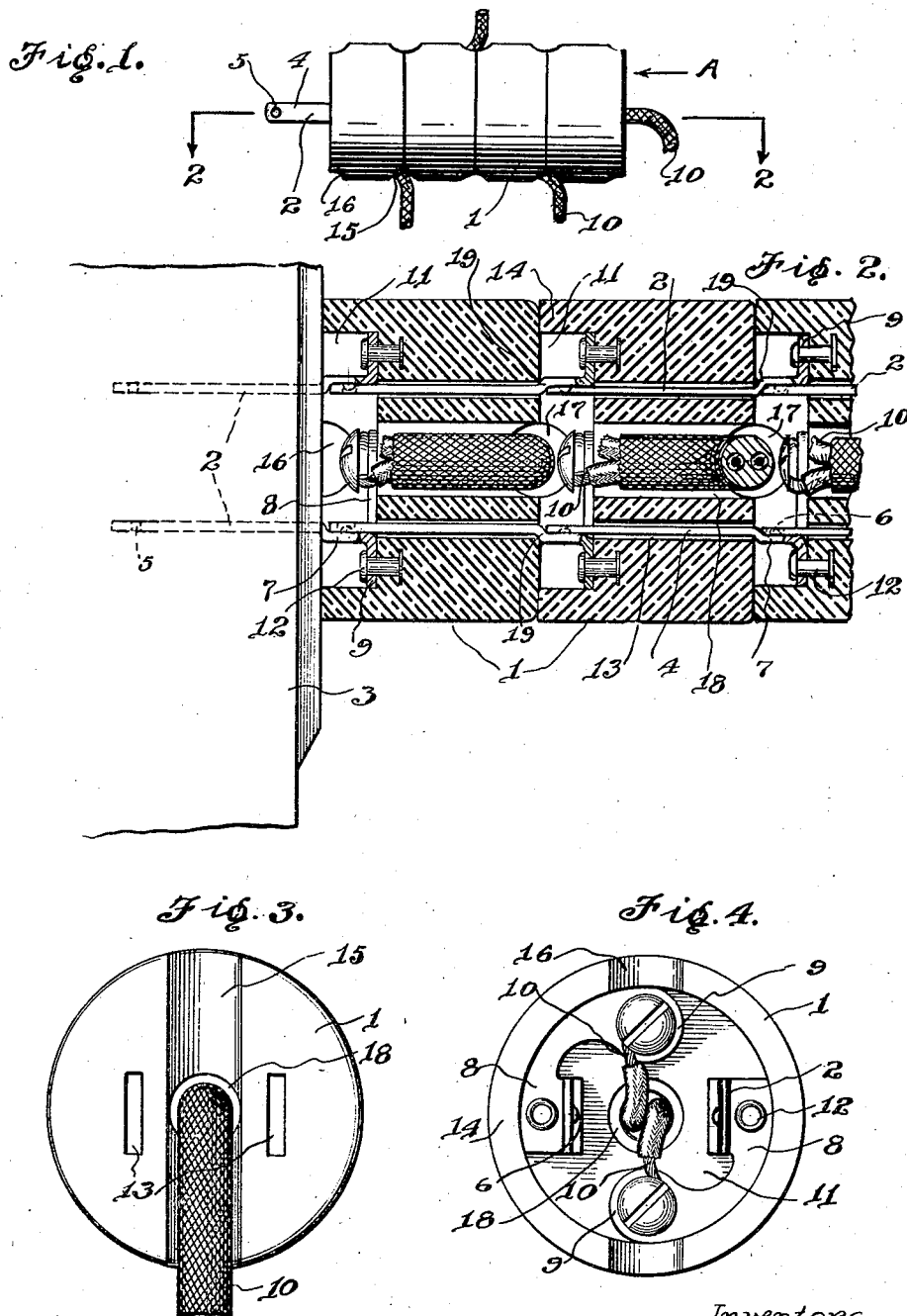
Nov. 5, 1929.

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1,734,073

MULTIPLE ATTACHMENT PLUG

Filed May 31, 1928



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MULTIPLE ATTACHMENT PLUG

Application filed May 31, 1928. Serial No. 281,863.

This invention relates to circuit extension devices for the distribution of electric current to various apparatus and more particularly to multiple attachment plugs designed so that the plugs may be connected end-on-end to an indefinite number.

The principal object of the invention is to provide a simple and practical form of multiple attachment plugs arranged so that they may conveniently and efficiently be connected end-on-end for supplying the current to the various electrical apparatus.

Another object of the invention is to provide a set of multiple plugs of this character having a passage between the two adjacent plugs communicating with a central longitudinal core for the conductor to pass through and be fastened to the terminals.

Another object of the invention is to provide a set of multiple plugs of this nature having an offset portion in the terminal blades near the base so the ends of the terminal blades of the adjacent plug can conveniently and resiliently be fastened to the said offset portions.

Another object of the invention is to provide a plug of this nature having the fewest number of elements therein and being easier to assemble and cheaper to manufacture than any of the other plugs of this nature on the market.

Other objects of this invention will in part be obvious and in part hereinafter pointed out. The invention accordingly consists in the features of construction, combinations of elements and arrangements of parts which will be exemplified in the construction hereinafter described and of which the scope of application will be indicated in the following manner.

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

Figure 1 is a view of the multiple attachment plugs connected together.

Figure 2 is a suction on line 2—2 of Figure 1 showing the front plugs attached to a receptacle.

Figure 3 is a view of the end plug looking in the direction of arrow A of Figure 1.

Figure 4 is a view of the same plug looking in the opposite direction.

Referring now to the drawings in detail in which like reference characters denote like parts throughout the specification, numeral 1 designates the body of the attachment plugs made from an insulating material, 2 the contact blades and 3 the receptacle in which to insert the contact blades of the forward plug.

The contact blades 3 as noted in Figure 2 are all alike. They include a straight arm 4 having a hole 5 near the end which coacts with a lug 6 formed in the offset portion 7 near the base. The base 8 of the blades are bent at right angles to the blades and form a binding post 9 for the conductors 10 which lead to the various electrical apparatus.

The contact blades are fastened to the plugs in a cavity 11 formed at the front of each plug, by the rivets 12. As noted in Figures 2 and 3 longitudinal slots 13 are provided in each plug so the contact blades of the adjacent plug could not pass through and impinge on the offset portion of the blades at the front of the said adjacent plug.

Formed at the end of each plug, and in the wall 14 of the cavity 11 at the front of each plug, are semi-circular grooves 15 and 16, respectively. When the plugs are joined together as noted in Figure 2 a complete circular opening 17 will be provided for the conductor 10 to enter, pass through a longitudinal opening 18 in the center of the plug and be fastened to the binding posts 9.

As indicated in Figure 2 the offset portion of each contact blade is formed flush with the front of the plug or the rear of the adjacent plug. The reason for this novel arrangement is that at this particular spot the vertical downward strain due to the weight of the plugs and the attached conductors is imparted to the blades 2. But being bent as shown at 19 the offset portion is thereby reinforced and is thus capable of meeting the strain.

It will thus be seen that we have provided a simple and efficient multiple attachment plug. The ends of the blades of one plug can be resiliently attached to the base of the blades of the adjoining plug with enough

friction so as to prevent any accidental disconnection. It will be apparent that any number of plugs can be connected together and to the outlet or wall receptacle, leading current to different attachments within the capacity of the electrical equipment or receptacles and the fuses in the supply current thereof.

Having described our invention, we claim:

1. In a series of attachment plugs of the class described, each of said plugs consisting of a body member having a set of contact blades including binding posts, said contact blades having an offset portion near the base so the ends of the blades of the adjacent plug can resiliently contact therewith, said contact blades fastened to the body portion in a cavity by rivets, said offset portion being flush with the top edge of said cavity, a semi-circular groove at the base of each plug and a semi-circular groove formed in the wall of said cavity so that when two plugs are fastened together the said semi-circular grooves will form a circular opening for the conductor to enter, and a central longitudinal opening in each of said plugs for the said conductor to pass through and be connected to the binding posts of said contact blades.

2. In a series of attachment plugs of the class described, each of said plugs consisting of a body member of insulated material being provided with recesses and slots adapted for the insertion of contact blades leading thereto from the adjoining plug, a set of contact blades including binding posts in said plugs, said contact blades having an offset portion near the base, a projection in said offset portion, said projection connecting with a hole in the end of the cooperating contact blade of the adjacent plug, said contact blades fastened to the body portion in a cavity by rivets, said offset portion being flush with the top edge of said cavity, a semi-circular groove at the base of each plug and a semi-circular groove formed in the wall of said cavity so that when two plugs are fastened together the said semi-circular grooves will form a circular opening for the conductor to enter, and a longitudinal opening in each of said plugs for the said conductor to pass through and be connected to the binding post to said contact blades, all of said contact blades directly connected together without any intervening contact elements.

3. As an article of manufacture an attachment plug of the class described for one or more extension circuits comprising an insulated body member, being provided with recesses and slots adapted for the insertion of contact blades leading thereto from an adjoining plug, a longitudinal opening between those slots for a conductor to pass through and be connected to the binding posts, a pair of contact blades including binding posts attached to said body member in a cavity formed in said base, and an offset portion near the

base of the blades so the ends of the contact blades of an adjoining plug can be resiliently engaged herewith, said offset portion being almost flush with the top edge of said cavity.

4. Claim 3 with the addition of, a semi-circular groove at the base of the plug so that when two plugs are fastened together the said semi-circular groove will form an opening for the conductor to enter.

5. Claim 3 with the addition of, a semi-circular groove formed in the wall of said cavity so that when two plugs are fastened together the said semi-circular groove will form an opening for the conductor to enter.

6. Claim 3 with the addition of, a semi-circular groove at the base of the plug and another semi-circular groove formed in the wall of said cavity so that when two plugs are fastened together the said semi-circular grooves will form a circular opening for the conductor to enter.

7. In a series of attachment plugs of the class described, each of said plugs consisting of a body member of insulated material, being provided with recesses and slots adapted for the insertion of contact blades leading thereto from the adjoining plug, a set of contact blades including binding posts in said plugs, said contact blades having an offset portion near the base, a projection in said offset portion, said projection co-acting with a hole in the end of the co-operating contact blade of the adjacent plug, said contact blades fastened to the body portion in a cavity, said offset portion being flush with the top edge of said cavity, a semi-circular groove at the base of each plug and a semi-circular groove formed in the wall of said cavity so that when two plugs are fastened together the said semi-circular grooves will form a circular opening for the conductor to enter, and a longitudinal opening in each of said plugs for the said conductor to pass through and be connected to the binding post of said contact blades, all of said contact blades directly connected together without any intervening contact elements.

In testimony whereof we affix our signatures.

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