May 14, 1929. A. GUEST 1,712,666

SWIVEL CONNECTION

Filed Nov. 29, 1926

Fig. 1.

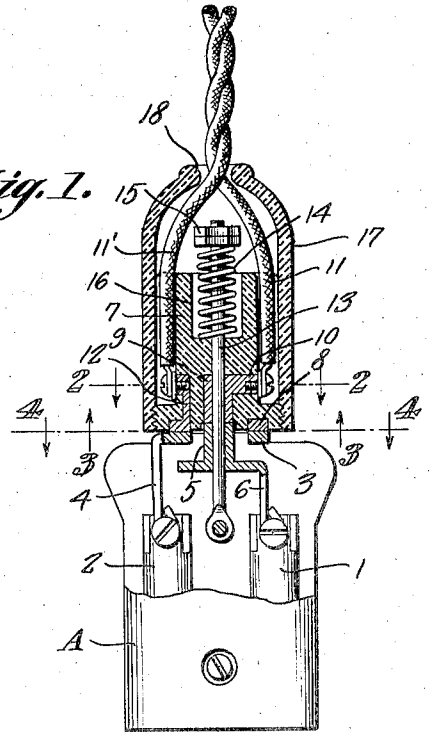


Fig. 2.

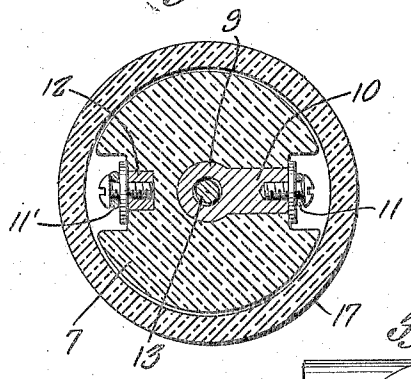


Fig. 3.

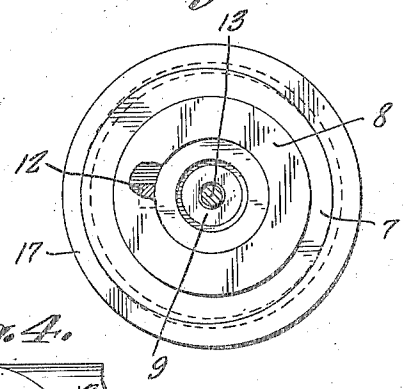
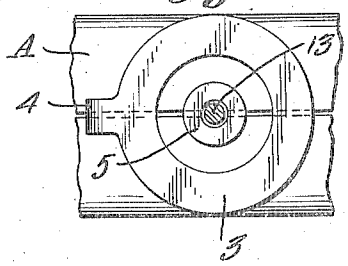


Fig. 4.



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UNITED STATES PATENT OFFICE.

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SWIVEL CONNECTION.

Application filed November 29, 1926. Serial No. 151,550.

This invention relates to a swivel connection for connecting the conductor wires to an electric appliance plug, so that the wires will not be twisted, and thus injured, by the movement of the appliance in the use of the same.

Another object of the invention is to provide a yieldable connection between the swiveled part and the plug so that the contacts between the plug and the swiveled part are kept in engagement through means of spring pressure.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a view partly in section, showing the invention applied to a plug.

Figure 2 is a section on line 2—2 of Figure 1.

Figure 3 is a section on line 3—3 of Figure 1.

Figure 4 is a section on line 4—4 of Figure 1.

In these drawings, A indicates the usual plug which is provided with the sockets 1 and 2 for receiving the terminals on an electric appliance, such as an iron, percolator, etc.

In carrying out my invention, I place a ring 3 of conducting material on the top or outer end of the plug and I connect this ring by the conductor 4 with the socket member 2. A boss 5 is placed in the center of the plug, with one end extending through the upper or outer end thereof and the flange of this boss is connected by the conductor 6 with the socket member 1. It is understood that the members 3 and 5 are insulated from each other by the insulating material from which the plug is formed. A body 7, formed of non-conducting material, has a ring 8 of conducting material in its exposed lower or outer end and this ring is adapted to engage the ring 3 when the body is placed on the top of the plug. A boss 9, of conducting material, is embedded in the center of the lower or outer end of the body 7 and this boss is adapted to engage the boss 5, the body having a central recess in its outer end for receiving the projecting part of the boss 5 in the plug A. The boss 9 is provided with a lateral extension 10 which extends through one wall of the body 7, where it is connected to a conductor 11 and the ring 8 is provided with an extension 12 which extends through one wall of the body, and this extension is connected with the conductor 11′. A rod 13 is connected with the plug A and passes through the holes in the bosses 5 and 9 and through the body 7 and a spring 14 is held on the rod by the nuts 15, the spring being partly located in a socket 16 formed in the upper or inner end of the body 7. This rod and its spring act to hold the body 7 on the plug, with the spring pressing the body against the plug and thus firmly holding the contact rings and plugs in engagement with each other. A casing 17 is screwed to the lower end of the body and encloses the parts associated with the body and has a large opening 18 in its upper end through which the conductors 11 and 11′ pass.

From the foregoing, it will be seen that current will pass down through one of the conductors, through the ring 8 into the ring 3 and will pass from the said ring 3 through the conductor 4 to the socket 2 and then, after passing through the appliance, will return through the socket 1, conductor 6 to plug 5 and through the plug 9, its extension 10, to the return conductor 11. As will be seen, the body 7 and its casing can rotate on the plug without breaking the circuit, so that the appliance can be moved without twisting the conductor wires 11 and 11′ and damaging the same.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. In combination with an appliance plug and its socket member, a central contact at the top of the plug and a ring-shaped contact at the top of the plug surrounding the central contact, each contact being connected with a socket member, a body of insulating material, a contact ring at one end of the body for engaging the contact ring of the plug, a central contact in the body for engaging the central contact of the plug, conductors connected with the contacts of the body and a pivot pin

for connecting the body with the plug, said pin passing hrough the central contacts.

2. In combination with an appliance plug and its socket member, a central contact at the top of the plug and a ring-shaped contact at the top of the plug surrounding the central contact, each contact being connected with a socket member, a body of insulating material, a contact ring at one end of the body for engaging the contact ring of the plug, a central contact in the body for engaging the central contact of the plug, conductors connected with the contacts of the body, a pivot pin for connecting the body with the plug, said pin passing through the central contacts and a casing detachably connected with the body and enclosing the parts.

3. In combination with an appliance plug and its socket member, a central contact at the top of the plug and a ring-shaped contact at the top of the plug surrounding the central contact, each contact being connected with a socket member, a body of insulating material, a contact ring at one end of the body for engaging the contact ring of the plug, a central contact in the body for engaging the central contact of the plug, conductors connected with the contacts of the body, a pivot pin for connecting the body with the plug, said pin passing through the central contacts and spring means associated with the pivot pin for pressing the body against the plug.

In testimony whereof I affix my signature.

ANDREW GUEST.