

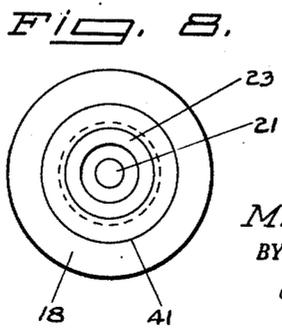
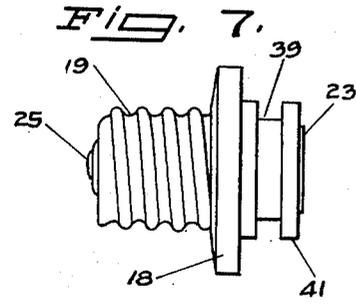
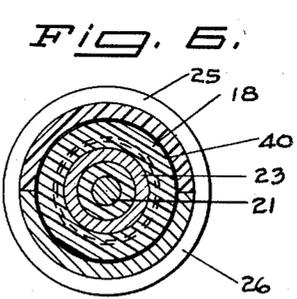
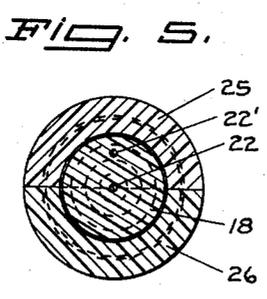
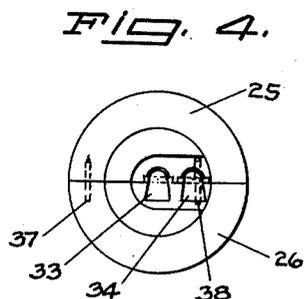
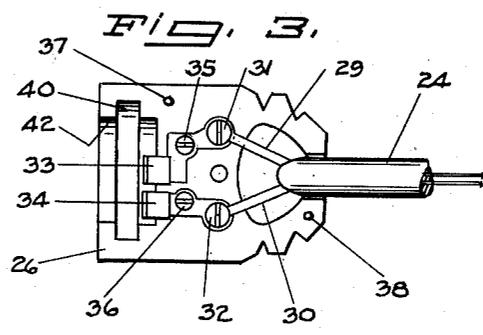
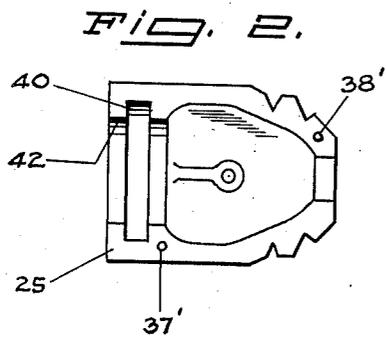
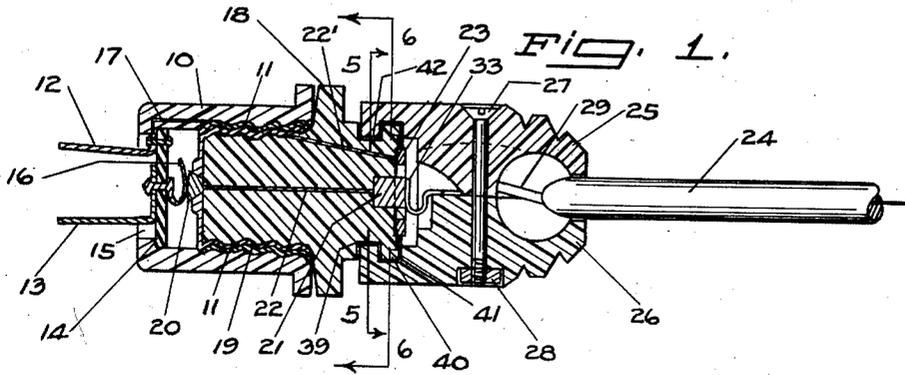
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2,542,935

ELECTRIC SWIVEL CONNECTING PLUG

Filed July 30, 1948



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ELECTRIC SWIVEL CONNECTING PLUG

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1 Claim. (Cl. 173-324)

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This invention relates to an improved electric swivel plug and has for the primary object the provision of an improved electrical swivel connection, which connection, will prevent the tangling and twisting of the cords, which twisting causes the wires within the cords to quickly become broken.

Another object of the present invention is to provide the connection with a body in the form of a threaded plug having a circumferentially recessed groove and to further provide a second body divided in two sections secured one to the other, the said second body having a circular ridge or other suitable means adapted to extend in the said groove and be circumferentially movable therein.

A further object of the present invention is the provision of an electric contact member centrally located in the threaded plug and a second electric contact member in the form of a ring surrounding the first mentioned contact member.

A still further object of the present invention is to provide an electric swivel plug of the character described that is durable, simple in construction, positive in operation, and highly efficient and serviceable in use.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawing forming a part of the specification, wherein for the purpose of illustration like numerals designate like parts throughout the same,

Fig. 1 is a central vertical sectional view of the improved device embodying the invention,

Fig. 2 is a plan view of one of the halves forming the split body employed in the invention,

Fig. 3 is a plan view of the second half of the said split body, and upon which the electric cord and contact members are secured,

Fig. 4 is a front end elevational view of the split body,

Fig. 5 is vertical sectional view taken through line 5-5 of Fig. 1, looking in direction of the arrows,

Fig. 6 is a vertical sectional view on line 6-6 of Fig. 1, looking in direction of the arrows,

Fig. 7 is a side elevational view of the threaded plug employed in the invention, and

Fig. 8 is an end elevational view of the said threaded plug, disclosing to advantage the central electric contact member and the metal ring surrounding the same.

Referring in detail to the drawing and the different parts thereof, the numeral 10 designates a conventional electric wall receptacle made of

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Bakelite, plastic or any other suitable electric insulation material and the numeral 11 an internally threaded metal shell fixed therein. The said receptacle is provided with a pair of metal prongs 12 and 13, which prongs are fixed to the insulation disc 14 and extend through the aperture 15. A resilient metal electric contact member 16 is centrally positioned in the disc 14 and connected to the metal prong 13. An electric conductor 17 connects the prong 12 to the threaded metal shell 11.

The numeral 18 designates as a whole, a plug, made of plastic or any other suitable electric insulation material and is provided with an externally threaded metal cap 19, which cap 19 is capable of being threaded into the shell 11. A metal body 20 is fixed to the said cap and provides a connection adapted to abut the contact member 16. The said metal body 20 is connected to the contact member 21 by the conductor 22, the said contact member 21 being centrally positioned in the said plug. A metal ring 23 is fixed in the said plug and surrounds the central contact member 21 and is connected to the plug's cap 19 by the conductor 22.

The outer end body portion of the device into which the electric cord 24 extends is preferably formed in two sections 25 and 26 secured one to the other by the bolt 27 and nut 28. Electric conductors 29 and 30 lead from the cord 24 and are secured to the section 26 by suitable screws 31 and 32 respectively. A pair of resilient metal electric contact members 33 and 34 are connected to the said conductors 29 and 30 as disclosed to advantage in Fig. 3, suitable screws 35 and 36 functioning as an auxiliary means for retaining the said contact members 33 and 34 to the body section 26. A pair of pins 37 and 38 in the section 26 fit in apertures 37' and 38' in the section 25 and function to keep the said sections one to the other and retain the same in alignment.

It will be particularly observed in Figs. 1, 5 and 6 that a circumferential groove 39 is formed in the plug 18 and likewise, a circumferential groove 40 is formed in the sections 25 and 26. A circular ridge 41 capable of revolvably fitting in the said groove 40 is formed on the said plug 18 and likewise a circular ridge 42 capable of revolvably fitting in the said circumferential groove 39 is formed on the sections 25 and 26, whereby a swivel joint is provided and the electric terminals 33 and 34, connected to the conductors 29 and 30, are in continuous contact with the central metal member 21 and the ring

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23 respectively. The section 25 is cored sufficiently to provide suitable space for the contact members 33 and 34 and screws 35 and 36 and the conductors leading thereto.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same and that various changes relative to the shape, size, material and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claim.

Having thus described my invention, I claim:

A device of the character described comprising, an electric plug provided with a threaded cap about one end thereof, a contact body carried centrally of the capped end, a contact member carried centrally of the plug end remote to the capped end thereof, a contact ring supported on the cap end concentrically about the last named contact member, a conductor disposed longitudinally of the plug interconnecting the end contact body and contact member, a second conductor interconnecting the contact ring and the plug cap, a circumferential groove formed in said plug at a spaced distance inwardly from the end thereof remote to the threaded cap, a body member having an open end provided with a circumferential flange extending inwardly thereabout, said flange being inset in and revolubly engaging the plug groove to swivelly interlock

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the plug and the body, a resilient contact member supported centrally in the open end of said body in abutment with the central plug contact member thereadjacent, a second resilient contact supported in the open end of the body in radially spaced disposition relative to the central contact therein, said radially spaced contact being in continuous abutment with the contact ring carried by the plug, said body being divided longitudinally into separable sections interlocked by a threaded means, corresponding aligning studs and stud passages carried by the respective separable body sections, and an electric cord extending into the closed end of said body and having connection with said radially spaced contacts therein.

MATHEW H. McELROY.

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