

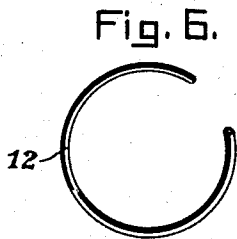
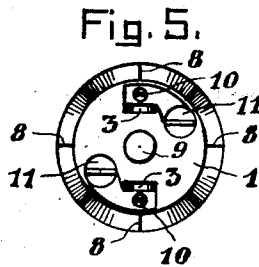
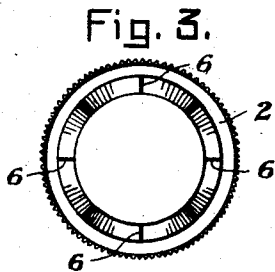
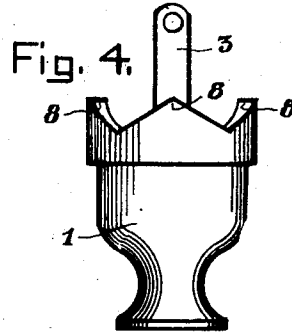
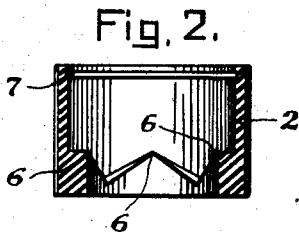
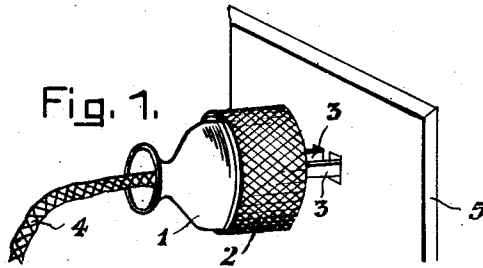
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H. HUMMEL

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ELECTRIC PLUG

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2,161,353

ELECTRIC PLUG

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1 Claim. (Cl. 173—361)

My invention relates to improvements in electric plugs, and it is the principal object of my invention to provide a plug permitting a gradual and smooth detachment of the plug from its socket without the necessity of exerting undue strain on the connection, and avoiding the danger of causing short circuits and danger to property or injury to persons.

Another object of my invention is the provision of an electric plug of comparatively simple and inexpensive construction, yet durable and highly efficient in use.

A further object of my invention is the provision of an electric plug composed of the least possible number of parts molded from any suitable insulating material, and held together and locked by a simple split spring ring readily operated to hold the parts together.

A still further object of my invention is the provision of an electric plug provided with a revolving, preferably knurled part co-operating with the plug body to effect the removal of the plug from its socket by the least number of turns either to the left or right by the suitable selection of the number and slant of the interengaging teeth on plug body and said revolving part.

These and other objects and advantages of my invention will become more fully known as the description thereof proceeds, and will then be specifically defined in the appended claim.

In the accompanying drawing forming a material part of this disclosure:

Fig. 1 is a perspective view of an electric plug constructed according to my invention.

Fig. 2 is a fragmentary vertical section through the revolving part and body of the plug proper.

Fig. 3 is a top plan view of the revolving part.

Fig. 4 is a vertical front elevation of the plug.

Fig. 5 is a top plan view of the plug.

Fig. 6 is a detail view of a split ring for connecting the revolving part with the plug body.

As illustrated, the body 1 of the plug is located within a revolving tube part 2, the outer face of which is preferably knurled for facilitating its operation. The tube 2 is provided with a plurality of teeth 3 on its inner face adapted to be engaged by similar teeth 4 of a suitably selected slant formed with the plug body 1, and near its upper face the tube 2 is provided with

an annular groove 7 for the reception of the spring, split ring 12 holding tube and body in their relative positions.

The plug body is equipped with the usual terminal prongs 3 secured thereto by means of the screws 10, 10 while the foot plates of said prongs are equipped with the screws 11, 11 for the attachment of the strands of the electrical cable or cord 4 passed through the central opening 9 in the plug.

In operation, the plug is placed into the revolving tube 2 and locked to the same by means of the split and elastic ring 12 entered into the groove 7 without however interfering with the revolution of the tube, and it will be clear that either a right or left hand turn given to the tube by virtue of the riding of the teeth of the tube along the slant of the teeth of the plug body will gradually produce a pulling effect to pull the plug smoothly out of its outlet socket 5 so that no undue strain will be exerted on the connections and the danger of short circuits will be positively avoided.

It will be understood that I have described the preferred form of my invention only, and that I may make such changes in its construction as come within the scope of the appended claim without departing from the spirit of the invention.

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

In an electric plug as described, a substantially cup-shaped cable and terminals carrying body having a plurality of teeth of a suitably selected slant formed at one of its ends, a grooved, revolving tubular member for the reception of said body to revolve about the same in either direction, and having a plurality of teeth formed on its inner face of a slant similar to the slant of the body teeth and co-operating therewith during the revolution of said tubular member in either direction to gradually separate said cable and terminals carrying body from an outlet socket, and a split ring in the groove of said tubular member engaging said body to hold said body and tubular member in their relative positions.

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