

Title (en)

AN ELECTRICAL CONNECTOR FOR A WIRELESS ELECTRICAL APPARATUS

Title (de)

ELEKTRISCHER VERBINDER FÜR EINE DRAHTLOSE ELEKTRISCHE VORRICHTUNG

Title (fr)

CONNECTEUR ELECTRIQUE POUR APPAREIL ELECTRIQUE SANS FIL

Publication

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Application

**EP 03783897 A 20030728**

Priority

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Abstract (en)

[origin: WO2004015823A1] An electrical connector for a wireless electrical apparatus includes a plug and a socket that are interconnectable and relatively rotatable; in the center of the plug's upper face there are a plug hole and ring grooves being concentric with the plug hole, with supply connecting terminals inside them respectively. Correspondingly, the plug is provided with receiving center connecting terminals and periphery connecting terminals that are respectively engaged with the supply connecting terminals inside the central plug hole and the ring grooves of the plug. It is characterized in that the socket also includes at least one supply contact connected with live wire or zero line of a power supply and at least one contact switching mechanism, which keeps the contacts between the supply contact and the corresponding receiving connecting terminals normally open when the plug not inserting the socket, and makes the normally open contact pair close and electrify under the action of the plug when the plug inserting the socket. In this invention, because the visible receiving contact of the socket surface is uncharged all the time, the electrical connector is ensured not only safety in use, but more facilitative connection on account of the unlimited width and depth of the socket surface recess.

IPC 8 full level

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