

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

EP 1536528 A1 20050601 (EN)

Application

EP 03783897 A 20030728

Priority

- CN 0300601 W 20030728
- CN 02136488 A 20020812

Abstract (en)

An electrical connector for a cordless electrical appliance includes a plug and a socket that are interconnectable and relatively rotatable; in the center of the plug's upper face there is a plughole and a number of ring grooves being concentric with the plughole, with power supply terminal lugs inside them respectively. Correspondingly, the plug is provided with receiving center terminal lugs and periphery terminal lugs that are respectively engaged with the power supply terminal lugs inside the center plughole and the ring grooves of the plug. The Socket is characterized by that it also includes at least one power supply contact sheet connected with live wire or zero line of power supply and at least one contact switching mechanism, which keeps the contacts between the power supply contact sheet and the corresponding receiving terminal lugs normally open when the plug isn't inserted into the socket, and makes the normally open contact pair close and electrify under the action of the plug when the plug is inserted into the socket. In this invention, because the visible power supply contact sheet of the socket surface is not electrified all the time, the electrical connector is not only ensured safety in use, but also facilitated for connecting on account of the unrestricted width and depth of the grooves. <IMAGE>

IPC 1-7

H01R 24/00

IPC 8 full level

H01R 13/703 (2006.01); **H01R 35/04** (2006.01)

CPC (source: EP)

H01R 13/703 (2013.01); **H01R 35/04** (2013.01)

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

WO 2004015823 A1 20040219; AU 2003255085 A1 20040225; CN 1196236 C 20050406; CN 1396683 A 20030212; DE 60331193 D1 20100325; EP 1536528 A1 20050601; EP 1536528 A4 20070418; EP 1536528 B1 20100203

DOCDB simple family (application)

CN 0300601 W 20030728; AU 2003255085 A 20030728; CN 02136488 A 20020812; DE 60331193 T 20030728; EP 03783897 A 20030728