

Title (en)
ELECTRICAL PLUG-AND-SOCKET DEVICE

Title (de)
ELEKTRISCHE STECKVORRICHTUNG

Title (fr)
CONNECTEUR ÉLECTRIQUE

Publication
EP 1972035 A1 20080924 (DE)

Application
EP 07703730 A 20070109

Priority
• EP 2007050180 W 20070109
• DE 102006001130 A 20060109

Abstract (en)
[origin: WO2007080166A1] Disclosed are plugs, socket-outlets, and couplers, preferably ones satisfying standard EN 60309, parts 1 and 2, especially couplings as well as built-on and surface-mounted socket-outlets as circular plug-and-socket devices which meet the tightness requirements without using a hinged lid while the plugging and pulling forces are significantly reduced. According to the invention, the sealing function is accomplished by means of a closure element (3) that rotates about the plugging axis while the plugging and disconnecting function of the plug-and-socket device is separated from the contacting function of the plug-in contacts as a result of the fact that the bushing contacts (6) are disposed radially offset relative to the standard position on a divided circle (10) while the contact pins (12) are radially fed to the bushing contacts (6) with the aid of a relative rotational movement between the plug (13) and the coupling (2) or socket-outlet after plugging in the plug (13).

IPC 8 full level
H01R 13/52 (2006.01); **H01R 13/625** (2006.01)

CPC (source: EP)
H01R 13/5219 (2013.01); **H01R 13/625** (2013.01); **H01R 13/115** (2013.01); **H01R 13/4532** (2013.01); **H01R 13/6456** (2013.01)

Citation (search report)
See references of WO 2007080166A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102006001130 A1 20070719; CN 101390261 A 20090318; DE 202006020191 U1 20080228; EP 1972035 A1 20080924; WO 2007080166 A1 20070719

DOCDB simple family (application)
DE 102006001130 A 20060109; CN 200780006662 A 20070109; DE 202006020191 U 20060109; EP 07703730 A 20070109; EP 2007050180 W 20070109