

Title (en)
ELECTRIC PLUG-IN CONNECTOR WITH DECOUPLING DEVICE

Title (de)
ELEKTRISCHER STECKVERBINDER MIT EINER ENTKOPPLUNGSEINRICHTUNG

Title (fr)
CONNECTEUR ELECTRIQUE COMPORTANT UN DISPOSITIF DE DECOUPLAGE

Publication
EP 1064700 A1 20010103 (DE)

Application
EP 99911958 A 19990319

Priority
• HU 9900022 W 19990319
• HU P9800607 A 19980319

Abstract (en)
[origin: WO9948172A1] The invention relates to an electric plug-in connector (10) fitted with a decoupling device which is configured such that it can be inserted in a plug-in direction (A) into a socket (20) having a recess (21). The plug-in connector (10) has a plug-in body (11) which can be fitted into the recess (21) of the socket (20) and contact elements (12) which within said plug-in body (11) are connected to corresponding contact elements (22) of the socket (20). The decoupling device comprises a decoupling sleeve (30) which encloses the plug-in body (11) and can be rotated in relation to the plug-in body (11) about an axis of rotation which is parallel to the plug-in direction (A). The outer surface of the plug-in body (11) presents a first coupling element and the internal surface of the decoupling sleeve (30) has a second coupling element (31). At least one of the coupling elements (13 or 31) forms a helicoidal guide track and, connected to the other coupling element, a motion converting device which simultaneously converts a twist of the decoupling sleeve (30) into a movement of the decoupling sleeve (30) towards the socket (20). The coupling elements (13, 31) cooperate with each other such as to move the decoupling sleeve (30) from a plug-in position, in which it is moved along the plug-in body (11) and pulled backward, into a decoupling position in which it is pushed forward. The decoupling sleeve (30) has a support surface (32) at its end facing the socket which in a plugged-in position can by rotation of said sleeve (30) rest against a surface surrounding the recess (21) of the socket (20). The invention also relates to a plug-in body (11) and a decoupling sleeve (30) suitable for configuring such a plug-in connector.

IPC 1-7
H01R 13/633

CPC (source: EP)
H01R 13/633 (2013.01); **H01R 24/28** (2013.01); **H01R 2103/00** (2013.01)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9948172 A1 19990923; EP 1064700 A1 20010103; HU 9800607 D0 19980528; HU P9800607 A1 19991129; PL 343126 A1 20010730; SK 13402000 A3 20010611

DOCDB simple family (application)
HU 9900022 W 19990319; EP 99911958 A 19990319; HU P9800607 A 19980319; PL 34312699 A 19990319; SK 13402000 A 19990319