

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

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Application  
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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.

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