

Title (en)

Electrical connection system for the electrical connection of a trailer to a towing vehicle

Title (de)

Elektrisches Steckverbindingssystem zum elektrischen Anschluss eines Anhängers an ein Zugfahrzeug

Title (fr)

Système de connexion par fiche pour le raccordement électrique d'une remorque à un véhicule tracteur

Publication

EP 2760089 B1 20161123 (DE)

Application

EP 14000247 A 20140124

Priority

DE 102013001236 A 20130125

Abstract (en)

[origin: EP2760089A1] The system (10) has a towing vehicle plug connector (30) and a trailer plug connector (50) that are provided for cooperating electrical transmission portions for the transmission of data and/or energy from one plug connector to other plug connector. A magnet assembly is provided with a magnetic element (46) arranged on one of plug connectors. A magnetic counter-element (66) is arranged on other of plug connectors for applying force to plug-in projection on a plug-in receptacle (35) toward the plug axis (S) and/or in the sense of a torque to the axis.

IPC 8 full level

H01R 13/625 (2006.01); **H01R 13/62** (2006.01)

CPC (source: EP)

H01R 13/6205 (2013.01); **H01R 13/625** (2013.01)

Cited by

EP4089850A1; CN107834311A; US11140730B2; CN104600444A; FR3072216A1; US11165196B2; WO2019073150A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2760089 A1 20140730; EP 2760089 B1 20161123; DE 102013001236 A1 20140731; EP 3113294 A1 20170104; EP 3113294 B1 20180228; EP 3331103 A1 20180606; EP 3331103 B1 20191127

DOCDB simple family (application)

EP 14000247 A 20140124; DE 102013001236 A 20130125; EP 16180941 A 20140124; EP 17209824 A 20140124