

Title (en)

PLUG CONNECTOR PART WITH A COOLED CONTACT ELEMENT

Title (de)

STECKVERBINDETEIL MIT EINEM GEKÜHLTEN KONTAKTELEMENT

Title (fr)

PARTIE DE CONNEXION ENFICHABLE COMPRENANT UN ÉLÉMENT DE CONTACT REFROIDI

Publication

EP 3433903 A1 20190130 (DE)

Application

EP 17711185 A 20170317

Priority

- DE 102016105311 A 20160322
- EP 2017056355 W 20170317

Abstract (en)

[origin: WO2017162532A1] The invention relates to a plug connector part (3) for connecting to a mating plug connector part (40), comprising at least one contact element (32) for electrically contacting a paired mating contact element (400) of the mating plug connector part (40) and a contact mounting (31) on which the at least one contact element (32) is held. The contact mounting (31) has a main part (35) and an insulating casing (36) which at least partly envelops the main part (35) and which is made of an electrically insulating material. The main part (35) has at least one channel (358) for conducting a coolant. In this manner, a plug connector part is provided which comprises a contact element and which can have a large current carrying capacity for use in a charging system for charging an electric vehicle for example.

IPC 8 full level

H01B 7/42 (2006.01); **H01R 13/00** (2006.01)

CPC (source: EP US)

B60L 53/16 (2019.01 - EP US); **B60L 53/18** (2019.01 - EP US); **B60L 53/302** (2019.01 - EP US); **H01R 13/005** (2013.01 - EP US); **H01R 13/533** (2013.01 - US); **H01R 2201/26** (2013.01 - EP US); **Y02T 10/70** (2013.01 - EP US); **Y02T 10/7072** (2013.01 - EP US); **Y02T 90/12** (2013.01 - EP); **Y02T 90/14** (2013.01 - EP US)

Citation (search report)

See references of WO 2017162532A1

Cited by

DE102022111276A1; DE202022002820U1

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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EP 2017056355 W 20170317; CN 201780018814 A 20170317; DE 102016105311 A 20160322; DE 202017007235 U 20170317; EP 17711185 A 20170317; JP 2018549933 A 20170317; US 201716082287 A 20170317