Title (en)

CONDUCTIVE POWER REFUELING

Title (de)

KONDUKTIVES STROMBETANKEN

Title (fr)

RAVITAILLEMENT EN COURANT PAR CONDUCTION

Publication

EP 2377208 A2 20111019 (DE)

Application

EP 09808973 A 20091214

Priority

- AT 2009000488 W 20091214
- AT 19352008 A 20081212
- AT 842009 A 20090120
- AT 1352009 A 20090127

Abstract (en)

[origin: WO2010065979A2] A high-current transmission apparatus for the conductive power refueling of electric vehicles comprises a bushing (1) having an integrated electromechanical switch function and at least one contactor. The contactor is designed connection contact-free on the side facing the plug connection and is part of the bushing (1). The connection contacts (11) are disposed on a removable plug (2) provided with plug contacts (9). A modular power filling station system for the conductive power refueling of electric vehicles comprises a main unit (31), a master module (32), and a user module (33), wherein the main unit (31) is implemented electronics-free and has at least one clamping apparatus (34) for supplying power and compartments for receiving the master module (32) and the user module (33). The master module (32) and the user module (33) form a high-current transmission apparatus, wherein the master module (32) comprises a bushing and the user module (33) comprises a plug corresponding to the bushing of the master module (32). The master module (32) remains disposed in the main unit (31), while the mobile user module (33) is held by the vehicle owner before and after power fueling. The user module (33), which comprises a counting unit (40), can be used to refuel power from a defined supplier of electric energy. In a method for carrying out conductive power refuelings of electric vehicles, a first communication unit of a main computer is connected to at least one mobile telephone and to at least one adapter of a power filling station by way of a first data transmission device. The power refueling is monitored and billed by way of the communication unit of the main computer.

IPC 8 full level

H01R 13/713 (2006.01); **H02J 7/00** (2006.01)

CPC (source: EP US)

B60L 53/16 (2019.01 - EP US); **B60L 53/30** (2019.01 - EP US); **B60L 53/305** (2019.01 - EP US); **B60L 53/31** (2019.01 - EP US); **B60L 53/65** (2019.01 - EP US); **H01R 13/665** (2013.01 - EP US); **H01R 13/713** (2013.01 - EP US); B60L 2240/622 (2013.01 - EP US); B60L 2260/56 (2013.01 - EP US); B60L 2270/32 (2013.01 - EP US); B60L 2270/34 (2013.01 - EP US); H01R 2201/26 (2013.01 - EP US); H02J 7/0042 (2013.01 - EP US); Y02T 10/70 (2013.01 - EP US); Y02T 10/7072 (2013.01 - EP US); Y02T 10/72 (2013.01 - EP US); Y02T 90/12 (2013.01 - EP US); Y02T 90/14 (2013.01 - EP US); Y02T 90/16 (2013.01 - EP US); Y02T 90/167 (2013.01 - EP US); Y04S 30/14 (2013.01 - EP US)

Citation (search report)

See references of WO 2010065979A2

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EP3744561A1; EP3680124A1; DE102017115702A1; US10916953B2

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