

Title (en)

SYSTEM FOR INDUCTIVELY CHARGING VEHICLES, COMPRISING AN ELECTRONIC POSITIONING AID

Title (de)

SYSTEM ZUM INDUKTIVEN LADEN VON FAHRZEUGEN MIT ELEKTRONISCHER POSITIONIERUNGSHILFE

Title (fr)

SYSTÈME DE CHARGE INDUCTIVE DE VÉHICULES POURVU D'UNE AIDE ÉLECTRONIQUE AU POSITIONNEMENT

Publication

EP 2454119 A2 20120523 (DE)

Application

EP 10732947 A 20100713

Priority

- EP 2010060027 W 20100713
- DE 102009033132 A 20090715

Abstract (en)

[origin: WO2011006884A2] The main claim involves a system that ensures a self-guiding, electronic positioning of a secondary coil in a vehicle, without the aid of indicators or kinematic or mechanical aids, in relation to a primary coil that is fixed in a structure, in order to guarantee a transfer of energy with over 90% efficiency without the disadvantages of moving, frictional and elastic components in terms of energy consumption, functional safety and wear. To achieve this aim, the coil housing in the structure fulfils the role of an electronics housing, reflective element and cooling element thanks to the choice of material used, the surface and the inner supports and can thus be retrofitted, as a single installation on the structure in the form of an operation-ready complete package, to any flat base with an electric connection. The vehicle can be used both for transporting passengers and loads and can be steered by a vehicle driver or can be operated without a driver, for example for cleaning areas, for the protection of the countryside or for intralogistics.

IPC 8 full level

B60L 11/18 (2006.01)

CPC (source: EP KR US)

B60L 53/12 (2019.01 - KR); **B60L 53/126** (2019.01 - EP US); **B60L 53/36** (2019.01 - EP KR US); **B60L 53/38** (2019.01 - EP KR US); **B60L 2240/622** (2013.01 - EP KR US); **B60L 2240/70** (2013.01 - EP KR US); **B60L 2250/30** (2013.01 - EP KR US); **B60L 2260/46** (2013.01 - EP KR US); **B60Y 2200/91** (2013.01 - KR); **Y02T 10/70** (2013.01 - EP US); **Y02T 10/7072** (2013.01 - EP KR US); **Y02T 10/72** (2013.01 - EP US); **Y02T 90/12** (2013.01 - EP US); **Y02T 90/14** (2013.01 - EP KR US); **Y02T 90/16** (2013.01 - EP US)

Citation (search report)

See references of WO 2011006884A2

Cited by

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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

WO 2011006884 A2 20110120; **WO 2011006884 A3 20120524**; BR 112012001041 A2 20160315; CA 2767279 A1 20110120; CN 102741083 A 20121017; CN 102741083 B 20160309; EP 2454119 A2 20120523; JP 2012533282 A 20121220; JP 5542203 B2 20140709; KR 101386432 B1 20140418; KR 20120049268 A 20120516; RU 2012102511 A 20130910; RU 2506181 C2 20140210; US 2012203410 A1 20120809; ZA 201109297 B 20120829

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