

Title (en)  
METHOD FOR AUTOMATICALLY CHARGING FULL-TIME OR PART-TIME ELECTRIC VEHICLES, AND ARRANGEMENT FOR ESTABLISHING A CHARGING CONTACT

Title (de)  
VERFAHREN ZUM AUTOMATISCHEN LADEN VON VOLLSTÄNDIG ODER TEILWEISE ELEKTRISCH BETRIEBENEN FAHRZEUGEN UND ANORDNUNG ZUR HERSTELLUNG EINES LADEKONTAKTES

Title (fr)  
PROCÉDÉ DE CHARGE AUTOMATIQUE DE VÉHICULES ENTIÈREMENT OU PARTIELLEMENT ÉLECTRIQUES ET SYSTÈME POUR ÉTABLIR UN CONTACT DE CHARGE

Publication  
**EP 2349774 A2 20110803 (DE)**

Application  
**EP 09756275 A 20091029**

Priority  
• EP 2009064267 W 20091029  
• DE 102008055881 A 20081103  
• DE 202009000259 U 20090108

Abstract (en)  
[origin: WO2010060720A2] The invention relates to a method for automatically charging full-time or part-time electric vehicles, characterized in that: a) a vehicle is used that is equipped with: i) sensors for sensing the surroundings, navigating, and preventing collisions; ii) a vehicle controller for automatically driving the vehicle; iii) a charging system for electrically charging the vehicle; and iv) at least one charging contact which can be functionally connected to at least one charging contact of the charging station at the charging point; b) a charging point is used that is equipped with at least one charging station comprising at least one charging contact which is designed to be functionally connectable to a charging contact of a vehicle to be charged; c) the vehicle starts at any starting point in a drop-off zone; d) the vehicle automatically proceeds to a selected charging point; e) a charging contact is established between the vehicle and the charging station at the charging point; f) the vehicle automatically leaves the charging point and drives to a selected pick-up zone. The invention also relates to devices associated therewith and to an arrangement for establishing a charging contact.

IPC 8 full level  
**B60L 11/18** (2006.01)

CPC (source: EP US)  
**B60L 3/12** (2013.01 - EP US); **B60L 53/11** (2019.01 - EP); **B60L 53/126** (2019.01 - EP US); **B60L 53/14** (2019.01 - EP US); **B60L 53/16** (2019.01 - EP); **B60L 53/305** (2019.01 - EP US); **B60L 53/36** (2019.01 - EP); **B60L 53/65** (2019.01 - EP); **B60L 53/68** (2019.01 - EP US); **B60L 58/12** (2019.01 - EP US); **B60W 50/0097** (2013.01 - EP); **B60L 2240/12** (2013.01 - EP); **B60L 2240/62** (2013.01 - EP); **B60L 2240/622** (2013.01 - EP); **B60L 2240/72** (2013.01 - EP); **B60L 2240/80** (2013.01 - EP); **B60L 2250/16** (2013.01 - EP); **B60L 2260/32** (2013.01 - EP); **B60L 2260/52** (2013.01 - EP); **B60L 2260/54** (2013.01 - EP); **B60L 2260/58** (2013.01 - EP); **B60W 2510/244** (2013.01 - EP); **B60W 2556/50** (2020.02 - EP); **Y02T 10/62** (2013.01 - EP); **Y02T 10/70** (2013.01 - EP); **Y02T 10/7072** (2013.01 - EP); **Y02T 10/72** (2013.01 - EP); **Y02T 90/12** (2013.01 - EP); **Y02T 90/14** (2013.01 - EP); **Y02T 90/16** (2013.01 - EP); **Y02T 90/167** (2013.01 - EP); **Y04S 30/12** (2013.01 - EP); **Y04S 30/14** (2013.01 - EP)

Citation (search report)  
See references of WO 2010060720A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2010060720 A2 20100603**; **WO 2010060720 A3 20100722**; EP 2349774 A2 20110803

DOCDB simple family (application)  
**EP 2009064267 W 20091029**; EP 09756275 A 20091029