

Title (en)

METHOD AND CONTROL UNIT FOR CHARGING A VEHICLE BATTERY

Title (de)

VERFAHREN UND STEUEREINHEIT ZUM LADEN EINES FAHRZEUGAKKUMULATORS

Title (fr)

PROCÉDÉ ET UNITÉ DE COMMANDE POUR LA CHARGE D'UN ACCUMULATEUR DE VÉHICULE

Publication

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Application

EP 11738641 A 20110629

Priority

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- EP 2011060876 W 20110629

Abstract (en)

[origin: WO2012004168A2] The invention provides a method for charging a vehicle battery by means of an authorized charging station. A first cryptographically protected communication link is first of all set up between a charging control unit of the vehicle and the charging station after successful preliminary verification of a digital certificate for the charging station by the charging control unit of the vehicle. A second communication link is then set up between the charging control unit of the vehicle and an authorization server for charging stations. The charging control unit transmits the preliminarily verified digital certificate for the charging station or an item of checking information extracted therefrom to the authorization server for charging stations via the second communication link which has been set up, which information is used by the authorization server to carry out an authorization check on the respective charging station. Finally, an authorization check result is transmitted from the authorization server to the charging control unit of the vehicle via the second communication link, which charging control unit controls a charging operation for charging the vehicle battery by means of the charging station on the basis of the received authorization check result. The charging method and the charging control unit allow electric vehicle batteries to be charged by means of charging stations in a largely tamper-proof and reliable manner.

IPC 8 full level

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Citation (search report)

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