

Title (en)
METHOD AND BACK END DEVICE FOR PREDICTIVELY CONTROLLING A CHARGING PROCESS FOR AN ELECTRIC ENERGY STORE OF A MOTOR VEHICLE

Title (de)
VERFAHREN UND BACKENDVORRICHTUNG ZUR PRÄDIKTIVEN LADESTEUERUNG FÜR EINEN ELEKTRISCHEN ENERGIESPEICHER EINES KRAFTFAHRZEUGS

Title (fr)
PROCÉDÉ ET DISPOSITIF BACKEND DE COMMANDE DE CHARGE PRÉDICTIVE POUR UN ACCUMULATEUR D'ÉNERGIE ÉLECTRIQUE D'UN VÉHICULE AUTOMOBILE

Publication
EP 3863882 A1 20210818 (DE)

Application
EP 19795458 A 20191009

Priority
• DE 102018217454 A 20181011
• EP 2019077297 W 20191009

Abstract (en)
[origin: WO2020074554A1] The invention relates to a method for predictively controlling (20) a charging process for an electric energy store (13) of a motor vehicle (12), wherein an energy exchange (14) between the energy store (13) and an electric energy source (15) is controlled by a charging device (11). According to the invention, a future time curve (25) of a non-energy requirement (N), resulting from a respective parking phase of the motor vehicle (12), is predicted, and the charge state (SOC) of the energy store (13) is kept below a threshold (21) by means of the charging device (11) regardless of the availability of a charge output of the energy source (15) if the predicted time curve (25) of the non-energy requirement (N) satisfies a specified rest criterion (22) for a specified subsequent time interval (23).

IPC 8 full level
B60L 58/12 (2019.01); **B60L 58/14** (2019.01)

CPC (source: EP US)
B60L 53/60 (2019.02 - EP); **B60L 53/67** (2019.02 - EP US); **B60L 53/68** (2019.02 - EP US); **B60L 55/00** (2019.02 - EP); **B60L 58/10** (2019.02 - EP); **B60L 58/12** (2019.02 - EP US); **B60L 58/14** (2019.02 - EP); **H02J 7/0048** (2020.01 - EP US); **H02J 7/0071** (2020.01 - EP); **H02J 2310/48** (2020.01 - EP US); **Y02E 60/00** (2013.01 - EP); **Y02T 10/70** (2013.01 - EP); **Y02T 10/7072** (2013.01 - EP); **Y02T 90/12** (2013.01 - EP); **Y02T 90/16** (2013.01 - EP); **Y02T 90/167** (2013.01 - EP); **Y04S 10/126** (2013.01 - EP); **Y04S 30/12** (2013.01 - EP)

Cited by
TWI767868B

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2020074554 A1 20200416; CN 112789193 A 20210511; CN 112789193 B 20240426; DE 102018217454 A1 20200416; EP 3863882 A1 20210818; US 2021387546 A1 20211216

DOCDB simple family (application)
EP 2019077297 W 20191009; CN 201980066918 A 20191009; DE 102018217454 A 20181011; EP 19795458 A 20191009; US 201917283792 A 20191009