

Title (en)

METHOD FOR OPERATING A SYSTEM HAVING A PLURALITY OF CHARGING STATIONS, AND SYSTEM

Title (de)

VERFAHREN ZUM BETREIBEN EINES SYSTEMS MIT EINER MEHRZAHL VON LADESTATIONEN UND SYSTEM

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UN SYSTÈME COMPORTANT UNE PLURALITÉ DE STATIONS DE CHARGE, ET SYSTÈME

Publication

**EP 4351916 A1 20240417 (DE)**

Application

**EP 22733648 A 20220620**

Priority

- DE 102021116469 A 20210625
- EP 2022066666 W 20220620

Abstract (en)

[origin: WO2022268677A1] A method for operating a system (1) that has a plurality of charging stations (10), a number of apparatuses (20), the respective apparatus (20) being associated with one or more of the charging stations (10), and a switching matrix for providing a plurality of switching states, comprising: charging electric vehicles (2, 3) by means of charging stations (10) in a specific period in which a number of the charging stations (10) are vacant, determining a requirement of a further electric vehicle (2, 3) to couple to a charging station (10), ascertaining a freely available charging power of the system for charging the further electric vehicle (2, 3), negotiating a charging plan with the further electric vehicle (2, 3), starting the charging of the further electric vehicle (2, 3) by means of the negotiated charging plan, negotiating new charging plans with a number of the electric vehicles (2, 3) comprising the further electric vehicle (2, 3) that comprise at least one changeover by means of one of the switching matrices, and charging the electric vehicles (2, 3) by means of the negotiated new charging plans.

IPC 8 full level

**B60L 53/10** (2019.01); **B60L 3/00** (2019.01); **B60L 3/04** (2006.01); **B60L 3/12** (2006.01); **B60L 53/14** (2019.01); **B60L 53/30** (2019.01); **B60L 53/37** (2019.01); **B60L 53/63** (2019.01); **B60L 53/65** (2019.01); **B60L 53/67** (2019.01); **H02J 3/00** (2006.01); **H02J 7/00** (2006.01); **H02J 13/00** (2006.01)

CPC (source: EP)

**B60L 3/0069** (2013.01); **B60L 3/04** (2013.01); **B60L 3/12** (2013.01); **B60L 53/11** (2019.02); **B60L 53/14** (2019.02); **B60L 53/305** (2019.02); **B60L 53/37** (2019.02); **B60L 53/63** (2019.02); **B60L 53/65** (2019.02); **B60L 53/67** (2019.02); **H02J 3/007** (2020.01); **H02J 7/00036** (2020.01); **H02J 7/0013** (2013.01); **B60L 2210/30** (2013.01); **B60L 2240/622** (2013.01); **B60L 2240/80** (2013.01); **H02J 13/00026** (2020.01)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**DE 102021116469 A1 20221229**; EP 4351916 A1 20240417; WO 2022268677 A1 20221229

DOCDB simple family (application)

**DE 102021116469 A 20210625**; EP 2022066666 W 20220620; EP 22733648 A 20220620