

Title (en)

METHOD FOR OPERATING A CHARGING STATION FOR VEHICLES

Title (de)

VERFAHREN ZUM BETRIEB EINER LADESTATION FÜR FAHRZEUGE

Title (fr)

PROCÉDÉ POUR FAIRE FONCTIONNER UNE STATION DE RECHARGE POUR VÉHICULES

Publication

**EP 3912248 A1 20211124 (DE)**

Application

**EP 20700780 A 20200110**

Priority

- DE 102019200342 A 20190114
- EP 2020050519 W 20200110

Abstract (en)

[origin: WO2020148181A1] A method for operating vehicles with an electrical energy store, in which the charging station is supplied with electrical energy via a polyphase power supply system, in which the charging station provides a plurality of phase lines for supplying electrical power to vehicles, in which at least one vehicle is supplied with a charging current via a phase line, in which at least one supply system voltage which is applied to the phase line which supplies the vehicle with a charging current is measured, in which a comparison between the measured supply system voltage and a stored rated voltage range is carried out, wherein the charging current is adjusted if the measured supply system voltage lies outside the stored rated voltage range. In addition, the supply system frequency can also be measured and compared with a rated supply system frequency range and the charging current can be adjusted if the measured supply system frequency lies outside the stored rated range.

IPC 8 full level

**H02J 3/26** (2006.01); **B60L 53/14** (2019.01); **B60L 53/31** (2019.01); **B60L 53/51** (2019.01); **B60L 53/52** (2019.01); **B60L 53/62** (2019.01); **B60L 53/63** (2019.01)

CPC (source: EP US)

**B60L 53/14** (2019.01 - EP); **B60L 53/31** (2019.01 - EP); **B60L 53/51** (2019.01 - EP); **B60L 53/52** (2019.01 - EP); **B60L 53/62** (2019.01 - EP US); **B60L 53/63** (2019.01 - EP US); **H02J 3/14** (2013.01 - EP US); **H02J 3/241** (2020.01 - EP); **H02J 3/26** (2013.01 - EP); **H02J 7/0048** (2020.01 - US); **H02J 7/00712** (2020.01 - EP US); **H02J 7/02** (2013.01 - EP); **H02J 3/26** (2013.01 - US); **H02J 2310/48** (2020.01 - EP); **Y02B 70/3225** (2013.01 - EP); **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 90/14** (2013.01 - EP); **Y02T 90/167** (2013.01 - EP); **Y04S 10/126** (2013.01 - EP); **Y04S 20/222** (2013.01 - EP); **Y04S 30/12** (2013.01 - EP)

Citation (search report)

See references of WO 2020148181A1

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)

**DE 102019200342 A1 20200716**; CN 113287240 A 20210820; EP 3912248 A1 20211124; US 2022126721 A1 20220428; WO 2020148181 A1 20200723

DOCDB simple family (application)

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