

Title (en)

DEVICE FOR CONDUCTIVE CHARGING COMPRISING AN IMPROVED CENTERING MEANS

Title (de)

VORRICHTUNG ZUM KONDUKTIVEN LADEN MIT EINEM VERBESSERTEN ZENTRIERMITTEL

Title (fr)

DISPOSITIF DE CHARGE PAR CONDUCTION COMPRENANT UN MOYEN DE CENTRAGE AMÉLIORÉ

Publication

EP 3873766 A1 20210908 (DE)

Application

EP 19797688 A 20191031

Priority

- DE 102018127173 A 20181031
- EP 2019079819 W 20191031

Abstract (en)

[origin: WO2020089381A1] A device (1) for conductive charging, having a vehicle unit (2) that is fixedly mounted on a vehicle, and a stationary, but moveably mounted robot unit (3), wherein: the vehicle unit (2) can be operatively connected to the robot unit (3) in order to carry out the charging process; the two units (2, 3) each have a housing (4, 10) in which associated contact elements (5, 11) are disposed; in the robot unit (3), the contact elements (5) are recessed in the housing (4) of the robot unit (3); and the contact elements (11) in the housing (10) of the vehicle unit (2) are fixed in place, characterised in that provided on the vehicle unit (2) is a contact engagement guard (12) which can be moved relative to the housing (10) of the vehicle unit (2) and by means of which the contact elements (11) of the vehicle unit (2) are protected or exposed.

IPC 8 full level

B60L 53/16 (2019.01); **B60L 53/35** (2019.01); **H01R 13/453** (2006.01); **H01R 24/38** (2011.01)

CPC (source: EP US)

B25J 15/0019 (2013.01 - US); **B25J 19/0033** (2013.01 - US); **B60L 53/16** (2019.02 - EP US); **B60L 53/35** (2019.02 - EP US); **H01R 13/4538** (2013.01 - EP US); **H01R 24/38** (2013.01 - EP US); **H01R 43/26** (2013.01 - US); **H02J 7/0042** (2013.01 - US); **B60L 2260/32** (2013.01 - EP); **H01R 2107/00** (2013.01 - US); **H01R 2201/26** (2013.01 - EP US); **Y02T 10/70** (2013.01 - EP); **Y02T 10/7072** (2013.01 - EP); **Y02T 90/12** (2013.01 - EP); **Y02T 90/14** (2013.01 - EP)

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 102019129436 A1 20200430; CN 113165542 A 20210723; CN 113165542 B 20240102; CN 113165543 A 20210723; CN 113286722 A 20210820; CN 113286722 B 20240621; DE 102019129419 A1 20200430; DE 102019129439 A1 20200430; EP 3873765 A1 20210908; EP 3873766 A1 20210908; EP 3873767 A1 20210908; US 11780340 B2 20231010; US 2021323423 A1 20211021; US 2021331596 A1 20211028; US 2021387539 A1 20211216; WO 2020089381 A1 20200507; WO 2020089390 A1 20200507; WO 2020089392 A1 20200507

DOCDB simple family (application)

DE 102019129436 A 20191031; CN 201980079020 A 20191031; CN 201980079026 A 20191031; CN 201980079038 A 20191031; DE 102019129419 A 20191031; DE 102019129439 A 20191031; EP 19797683 A 20191031; EP 19797688 A 20191031; EP 19797692 A 20191031; EP 2019079804 W 20191031; EP 2019079819 W 20191031; EP 2019079828 W 20191031; US 201917286868 A 20191031; US 201917286988 A 20191031; US 201917287024 A 20191031