

Title (en)

ELECTRICAL CHARGING ASSEMBLY FOR CHARGING ELECTRIC VEHICLES

Title (de)

ELEKTRISCHE LADEANORDNUNG ZUM LADEN VON ELEKTROFAHRZEUGEN

Title (fr)

SYSTÈME DE CHARGE ÉLECTRIQUE POUR CHARGER DES VÉHICULES ÉLECTRIQUES

Publication

EP 3756246 A1 20201230 (DE)

Application

EP 19704003 A 20190208

Priority

- DE 102018103932 A 20180221
- EP 2019053128 W 20190208

Abstract (en)

[origin: WO2019162108A1] The invention relates to an electrical charging assembly (100) for charging electric vehicles (112), comprising: at least one electrical charging plug connection (102, 202, 302), which comprises a socket (216, 316) having a plurality of first contacts (220, 320) and a plug (218) having a plurality of second contacts (22), which correspond to the first contacts (220, 320); a charging control unit (104), which is electrically connected to an electrical connection unit (106) by means of the electrical charging plug connection (102, 202, 302) during normal use, wherein: the socket (216, 316) has at least one slidable protection plate (226, 326) having a plurality of openings (228, 328), which correspond to contact openings (224, 324) of the first contacts (220, 320); the protection plate (226, 326) is designed, in an unconnected state, to close the contact openings (224, 324) of the first contacts (220, 320); and the protection plate (226, 326) is designed to interact with the plug (218) in such a way that, by insertion of the plug (218) into the socket (216, 316), sliding of the protection plate (226, 326) is brought about in such a way that the second contacts (222) can be inserted into the contact openings (224, 324) of the first contacts (220, 320) through the openings (228, 328) in the protection plate (226, 326).

IPC 8 full level

H01R 13/453 (2006.01); **B60L 53/16** (2019.01)

CPC (source: EP)

B60L 53/16 (2019.01); **H01R 13/4534** (2013.01); **Y02T 10/70** (2013.01); **Y02T 10/7072** (2013.01); **Y02T 90/14** (2013.01)

Citation (search report)

See references of WO 2019162108A1

Cited by

WO2023139454A1

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 102018103932 A1 20190822; EP 3756246 A1 20201230; WO 2019162108 A1 20190829

DOCDB simple family (application)

DE 102018103932 A 20180221; EP 19704003 A 20190208; EP 2019053128 W 20190208