

Title (en)
ELECTRIC CHARGING DEVICE FOR A MOTOR VEHICLE

Title (de)
ELEKTRISCHE LADEVORRICHTUNG FÜR EIN KRAFTFAHRZEUG

Title (fr)
DISPOSITIF DE CHARGE ÉLECTRIQUE POUR UN VÉHICULE À MOTEUR

Publication
EP 4017758 A1 20220629 (DE)

Application
EP 20746102 A 20200715

Priority
• DE 102019122418 A 20190821
• DE 2020100619 W 20200715

Abstract (en)
[origin: WO2021032235A1] The invention relates to an electric charging device for a motor vehicle (1), in particular an electric or hybrid motor vehicle. The charging device comprises a charging socket (2) on the motor vehicle side and a charging plug (3) on the charging station side, or vice versa. In addition, a motorised locking element (4) that can be moved by a drive (5, 6) is provided for releasably locking the charging plug (3) in the charging socket (2). The drive (5, 6) is arranged in a housing (7, 8), from which the locking element (4) reaches the adjustment path (S) that can be varied by the drive (5, 6). An actuating element (12, 12') which can be manually actuated with the aid of a tool (11) is provided for unlocking the locking element (4) in the event of an emergency. According to the invention, the actuating element (12, 12') is indirectly and/or directly connected to the locking element (4) inside the housing (7, 8).

IPC 8 full level
B60L 53/16 (2019.01); **H01R 13/639** (2006.01)

CPC (source: CN EP)
B60L 53/16 (2019.02 - CN EP); **E05B 81/90** (2013.01 - CN); **B60L 2270/32** (2013.01 - EP); **B60L 2270/34** (2013.01 - EP); **H01R 13/6397** (2013.01 - EP); **Y02T 10/70** (2013.01 - EP); **Y02T 10/7072** (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)
WO 2021032235 A1 20210225; CN 114450189 A 20220506; DE 102019122418 A1 20210225; EP 4017758 A1 20220629

DOCDB simple family (application)
DE 2020100619 W 20200715; CN 202080068500 A 20200715; DE 102019122418 A 20190821; EP 20746102 A 20200715