Title (en)

SECURE ELECTRIC VEHICLE CHARGING

Title (de)

SICHERES LADEN EINES ELEKTRISCHEN FAHRZEUGS

Title (fr)

RECHARGE DE VÉHICULE ÉLECTRIQUE SÉCURISÉE

Publication

**EP 4289156 A1 20231213 (EN)**

Application

**EP 22750623 A 20220203**

Priority

- US 202163145850 P 20210204
- US 2022070502 W 20220203

Abstract (en)

[origin: WO2022170333A1] Systems and methods for secure electric vehicle (EV) charging are provided. One embodiment includes an EV charger, where the EV charger includes a power management unit, a processor, a low power short range point-to-point communication system, a memory containing machine readable instructions, where the processor is configured by the machine readable instructions to receive an authentication request from a mobile device via the low power short range point-to-point communication system, send encrypted EV charger access credentials to the mobile device, receive a digital token from the mobile device, verify the digital token, and initiate a charging session based upon a command contained within the digital token.

IPC 8 full level

**H04W 4/80** (2018.01); **B60L 53/66** (2019.01)

CPC (source: EP)

**B60L 53/305** (2019.01); **B60L 53/51** (2019.01); **B60L 53/52** (2019.01); **B60L 53/63** (2019.01); **B60L 53/665** (2019.01); **B60L 53/67** (2019.01); **H04W 4/80** (2018.01); B60L 2240/72 (2013.01); B60L 2250/16 (2013.01); B60L 2270/40 (2013.01); Y02T 10/70 (2013.01); Y02T 10/7072 (2013.01); Y02T 90/12 (2013.01); Y02T 90/16 (2013.01)

Citation (search report)

See references of WO 2022170333A1

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)

**WO 2022170333 A1 20220811**; **WO 2022170333 A9 20230608**; CA 3206498 A1 20220811; CL 2023002302 A1 20240322; DE 112022000922 T5 20240222; EP 4289156 A1 20231213

DOCDB simple family (application)

**US 2022070502 W 20220203**; CA 3206498 A 20220203; CL 2023002302 A 20230803; DE 112022000922 T 20220203; EP 22750623 A 20220203