

Title (en)

ELECTRICITY METER FOR A CHARGING STATION

Title (de)

STROMZÄHLER FÜR EINE LADESTATION

Title (fr)

COMPTEUR D'ÉLECTRICITÉ POUR UNE STATION DE CHARGE

Publication

EP 4146497 A1 20230315 (DE)

Application

EP 21719100 A 20210413

Priority

- DE 102020112109 A 20200505
- EP 2021059525 W 20210413

Abstract (en)

[origin: WO2021223965A1] The application relates to an electricity meter (102, 202, 302) for a charging station (100, 200, 300) for charging electric vehicles (122, 322), in particular personal light electric vehicles (122, 322), comprising at least one receiving interface (106, 206, 306), designed for receiving an energy dataset, containing at least one electrical energy limit amount approved for a charging process, at least one measuring device (104, 204, 304) designed to measure an electrical energy amount exchanged during a charging process between the charging station (100, 200, 300) and an electric vehicle (122, 322) electrically connected to the charging station (100, 200, 300), wherein the measuring device (104, 204, 304) comprises at least one detection module (110, 210, 310) designed to detect whether the electrical energy amount exchanged in the charging process corresponds to the approved electrical energy limit amount, and at least one control interface (108, 208, 308) connected to the measuring device (104, 204, 304) and designed to trigger an interruption of the exchange of the electrical energy amount if the electrical energy amount exchanged in the charging process is determined to at least correspond to the approved electrical energy limit amount.

IPC 8 full level

B60L 53/30 (2019.01); **B60L 53/66** (2019.01)

CPC (source: EP)

B60L 53/305 (2019.01); **B60L 53/66** (2019.01); **B60L 53/665** (2019.01); **B60L 2200/12** (2013.01); **B60L 2200/24** (2013.01); **B60L 2240/70** (2013.01); **Y02T 10/70** (2013.01); **Y02T 10/7072** (2013.01); **Y02T 10/72** (2013.01); **Y02T 90/12** (2013.01); **Y02T 90/16** (2013.01); **Y02T 90/167** (2013.01); **Y04S 30/14** (2013.01)

Citation (search report)

See references of WO 2021223965A1

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)

DE 102020112109 A1 20211111; EP 4146497 A1 20230315; WO 2021223965 A1 20211111

DOCDB simple family (application)

DE 102020112109 A 20200505; EP 2021059525 W 20210413; EP 21719100 A 20210413