

Title (en)
METHOD FOR EXCHANGING ENERGY, PROCESSING UNIT AND VEHICLE

Title (de)
VERFAHREN ZUM AUSTAUSCHEN VON ENERGIE, VERARBEITUNGSEINHEIT UND FAHRZEUG

Title (fr)
PROCÉDÉ D'ÉCHANGE D'ÉNERGIE, UNITÉ DE TRAITEMENT ET VÉHICULE

Publication
EP 4222013 A1 20230809 (DE)

Application
EP 21783226 A 20210924

Priority
• DE 102020125849 A 20201002
• EP 2021076287 W 20210924

Abstract (en)
[origin: WO2022069351A1] The invention relates to a method for exchanging electrical energy (E) between an energy accumulator (7) in a vehicle (1) of a vehicle operator (2) and an energy user (EA), wherein the energy accumulator (7) is designed to store electrical energy (E) permanently, and an electrical connection can be provided between the energy accumulator (7) and the energy user (EA) in order to exchange energy (E). According to the invention an exchange of energy (E) takes place from the energy user (EA) to the energy accumulator (7) of the vehicle (1) in a first energy transfer direction (R1), or from the energy accumulator (7) of the vehicle (1) to the energy user (EA) in a second energy transfer direction (R2), in order to provide an energy service (DL) through the vehicle operator (2), the exchange of energy (E) taking place depending on an energy price specified by the vehicle operator (2) for the energy service (DL), said energy price being determined depending on a storage status of the at least one energy accumulator (7).

IPC 8 full level
B60L 50/53 (2019.01); **B60L 53/63** (2019.01); **B60L 53/64** (2019.01); **B60L 55/00** (2019.01); **B60L 58/12** (2019.01); **B60L 58/16** (2019.01); **G07F 15/00** (2006.01)

CPC (source: EP US)
B60L 5/38 (2013.01 - US); **B60L 50/53** (2019.02 - EP); **B60L 53/14** (2019.02 - US); **B60L 53/62** (2019.02 - US); **B60L 53/63** (2019.02 - EP US); **B60L 53/64** (2019.02 - EP); **B60L 53/665** (2019.02 - US); **B60L 55/00** (2019.02 - EP US); **B60L 58/12** (2019.02 - EP); **B60L 58/16** (2019.02 - EP); **G06Q 30/0283** (2013.01 - US); **G07F 15/005** (2013.01 - EP); **G07F 15/008** (2013.01 - EP); **B60L 2200/26** (2013.01 - EP); **B60L 2200/28** (2013.01 - EP); **B60L 2240/545** (2013.01 - EP); **Y02E 60/00** (2013.01 - EP); **Y02T 10/70** (2013.01 - EP); **Y02T 10/7072** (2013.01 - EP); **Y02T 90/12** (2013.01 - EP); **Y02T 90/167** (2013.01 - EP); **Y04S 10/126** (2013.01 - EP); **Y04S 30/14** (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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 102020125849 A1 20220407; CN 116194324 A 20230530; EP 4222013 A1 20230809; US 2023202337 A1 20230629; WO 2022069351 A1 20220407

DOCDB simple family (application)
DE 102020125849 A 20201002; CN 202180065459 A 20210924; EP 2021076287 W 20210924; EP 21783226 A 20210924; US 202318179643 A 20230307