

Title (en)  
METHOD FOR RECHARGING A BATTERY AS A FUNCTION OF THE TEMPERATURE OF THE OUTSIDE ENVIRONMENT FOR A FAST-RECHARGE MODE

Title (de)  
VERFAHREN ZUM AUFLADEN EINER BATTERIE IN ABHÄNGIGKEIT VON DER TEMPERATUR DER ÄUSSEREN UMGEBUNG FÜR EINEN SCHNELLLADEMODUS

Title (fr)  
PROCEDE DE RECHARGE D'UNE BATTERIE EN FONCTION DE LA TEMPERATURE D'ENVIRONNEMENT EXTERIEUR POUR UN MODE DE RECHARGE RAPIDE

Publication  
**EP 4347307 A1 20240410 (FR)**

Application  
**EP 22735503 A 20220421**

Priority  
• FR 2105883 A 20210604  
• FR 2022050752 W 20220421

Abstract (en)  
[origin: WO2022254107A1] The present invention relates to a method for recharging a traction battery (3) for an electric vehicle (1) that can be recharged by means of a recharging terminal (7) in which a predetermined recharge mode is configured that determines the setpoint recharging current for governing the terminal (7), comprising governing a first recharging phase controlled by a first current setpoint CR1 as long as the state of charge of the battery (3) is lower than a predetermined state of charge threshold (S1), and governing a second recharging phase when the state of charge is higher than said state of charge threshold (S1), characterized in that the control (23, 24) of the recharging current, during the second recharging phase, is governed by the first current setpoint CR1 if the environment temperature (T) is lower than said temperature threshold (T1), and when the environment temperature (T) is higher than or equal to said temperature threshold (T1), the control (24) of the recharging current is governed by a second recharging current setpoint CR2 having a value which is a function of a predetermined reduction coefficient k according to the following equation:  $CR2 = k \cdot CR1$ , where k is between 0.2 and 0.8.

IPC 8 full level  
**B60L 53/62** (2019.01); **B60L 58/12** (2019.01)

CPC (source: EP)  
**B60L 53/62** (2019.02); **B60L 58/12** (2019.02); **B60L 2240/662** (2013.01); **Y02T 10/70** (2013.01); **Y02T 10/7072** (2013.01)

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)  
**FR 3123601 A1 20221209**; EP 4347307 A1 20240410; WO 2022254107 A1 20221208

DOCDB simple family (application)  
**FR 2105883 A 20210604**; EP 22735503 A 20220421; FR 2022050752 W 20220421