

Title (en)
METHOD FOR MONITORING A BATTERY AND MONITORING DEVICE

Title (de)
VERFAHREN ZUR ÜBERWACHUNG EINER BATTERIE SOWIE ÜBERWACHUNGSEINRICHTUNG

Title (fr)
PROCÉDÉ DE SURVEILLANCE D'UNE BATTERIE ET DISPOSITIF DE SURVEILLANCE

Publication
EP 3245530 A1 20171122 (DE)

Application
EP 15822944 A 20151223

Priority
• DE 102015200321 A 20150113
• EP 2015081181 W 20151223

Abstract (en)
[origin: WO2016113099A1] The present invention discloses a method for monitoring a battery, wherein the method comprises the steps of measuring a cell voltage value during a current pulse, correcting the cell voltage value by a known maximum possible measurement accuracy, if a predefined relevant value for the cell voltage value is exceeded, in order to calculate a corrected cell voltage value, transferring the corrected cell voltage value to a table in a data memory and storing the values of a minimum cell temperature and a current value for the measured cell voltage for a predefined number of measurements and a current pulse duration in the table, incrementing a counter in a row/column combination assigned to the measurement of the cell voltage value in the table by a predefined value, comparing a sum of the counter values for the predefined number of measurements and current pulse duration with a predefined reference counter value, and outputting a signal if a predefined threshold value is reached or exceeded. A corresponding monitoring device is also disclosed.

IPC 8 full level
G01R 31/36 (2006.01)

CPC (source: CN EP US)
G01R 31/3648 (2013.01 - CN); **G01R 31/367** (2018.12 - EP); **G01R 31/396** (2018.12 - CN); **H01M 10/425** (2013.01 - EP); **H01M 10/48** (2013.01 - CN EP US); **H01M 10/486** (2013.01 - CN EP US); **G01R 31/3835** (2018.12 - EP); **G01R 31/396** (2018.12 - EP); **Y02E 60/10** (2013.01 - EP)

Citation (search report)
See references of WO 2016113099A1

Cited by
WO2021123863A1

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)
DE 102015200321 A1 20160714; CN 107110917 A 20170829; CN 107110917 B 20210126; EP 3245530 A1 20171122; WO 2016113099 A1 20160721

DOCDB simple family (application)
DE 102015200321 A 20150113; CN 201580073138 A 20151223; EP 15822944 A 20151223; EP 2015081181 W 20151223