

Title (en)  
METHOD AND ARRANGEMENT FOR ESTIMATING THE EFFICIENCY OF AT LEAST ONE BATTERY UNIT OF A RECHARGEABLE BATTERY

Title (de)  
VERFAHREN UND ANORDNUNG ZUM ABSCHÄTZEN DER LEISTUNGSFÄHIGKEIT MINDESTENS EINER BATTERIEEINHEIT EINER WIEDERAUFLADBAREN BATTERIE

Title (fr)  
PROCÉDÉ ET DISPOSITIF POUR ESTIMER LA CAPACITÉ D'AU MOINS UNE UNITÉ DE BATTERIE D'UNE BATTERIE RECHARGEABLE

Publication  
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Application  
**EP 11738651 A 20110704**

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Abstract (en)  
[origin: WO2012013453A1] The invention relates to a method for estimating the state of charge (SOC) of at least one battery unit (12) of a rechargeable battery (14) and at least one variable (Cact, Ri,DC,B,act) of the battery unit which describes the state of ageing or state of health (SOH) of this battery unit at a selectable operating point by means of a model (22), in particular a mathematical model, of the battery (14) or at least of the battery unit (12), wherein firstly the state of charge (SOC) is estimated. There is provision that the variable which describes the state of health (SOH) is a current charge capacity (Cact) of the battery unit (12) which is estimated from the load current (IB) of the battery unit at the operating point and the reciprocal value of the derivative over time of the previously estimated state of charge (SOC) of the battery unit (12). The invention also relates to a corresponding arrangement (10) for estimating the state of charge of a battery unit (12) of a rechargeable battery (14).

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**G01R 31/367** (2018.12 - KR); **G01R 31/382** (2018.12 - KR); **G01R 31/385** (2018.12 - US); **G01R 31/389** (2018.12 - KR); **G01R 31/392** (2018.12 - EP KR US); **H01M 10/4207** (2013.01 - EP KR US); **H01M 10/482** (2013.01 - EP KR US); **G01R 31/367** (2018.12 - EP US); **G01R 31/389** (2018.12 - EP US); **Y02E 60/10** (2013.01 - EP KR)

Citation (search report)  
See references of WO 2012013453A1

Cited by  
CN106093778A

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