

Title (en)

SYSTEMS AND METHODS FOR ELECTROCHEMICAL DEVICE CHARGING AND DISCHARGING

Title (de)

SYSTEME UND VERFAHREN ZUM LADEN UND ENTLADEN EINER ELEKTROCHEMISCHEN VORRICHTUNG

Title (fr)

SYSTÈMES ET PROCÉDÉS DE CHARGE ET DE DÉCHARGE DE DISPOSITIFS ÉLECTROCHIMIQUES

Publication

EP 4189805 A1 20230607 (EN)

Application

EP 21848949 A 20210730

Priority

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- US 2021044083 W 20210730

Abstract (en)

[origin: WO2022026934A1] Systems and methods that charge a battery using a signal with at least one harmonically tuned aspect based on impedance of the battery with a frequency or harmonic component. The system may further involve a power converter that may act in concert with charging to power a load. In some instances, an output signal is generated that is interleaved with the charge signal. Further, the output signal may be tuned based on output impedance to the discharge signal.

IPC 8 full level

H02J 7/04 (2006.01); **H01M 10/44** (2006.01); **H02J 7/02** (2016.01)

CPC (source: EP KR)

H01M 10/44 (2013.01 - EP KR); **H02J 7/00032** (2020.01 - KR); **H02J 7/00711** (2020.01 - EP KR); **H02M 3/156** (2013.01 - KR); **H02J 2207/20** (2020.01 - KR); **Y02E 60/10** (2013.01 - EP KR)

Citation (search report)

See references of WO 2022026934A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

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