

Title (en)

ADVANCED LITHIUM-ION ENERGY STORAGE DEVICE

Title (de)

VERBESSERTE LITHIUM-IONEN-ENERGIESPEICHERVORRICHTUNG

Title (fr)

DISPOSITIF D'ACCUMULATION D'ÉNERGIE LITHIUM-ION AVANCÉ

Publication

EP 4229703 A2 20230823 (EN)

Application

EP 21883679 A 20211019

Priority

- US 202063093441 P 20201019
- US 2021055562 W 20211019

Abstract (en)

[origin: WO2022086930A2] A lithium ion capacitor includes binder free positive and negative electrode active layers. The capacitor exhibits high energy density, power density and cycle life and provides a good compromise in performance between an electric double layer capacitor and a lithium ion battery.

IPC 8 full level

H01M 10/0525 (2010.01); **H01M 4/36** (2006.01); **H01M 10/0569** (2010.01)

CPC (source: EP IL KR)

H01G 11/06 (2013.01 - EP IL KR); **H01G 11/24** (2013.01 - EP IL KR); **H01G 11/28** (2013.01 - EP IL KR); **H01G 11/32** (2013.01 - EP IL KR); **H01G 11/36** (2013.01 - EP IL); **H01G 11/38** (2013.01 - EP IL); **H01G 11/70** (2013.01 - EP IL KR); **Y02E 60/13** (2013.01 - EP IL KR)

Citation (search report)

See references of WO 2022086930A2

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)

WO 2022086930 A2 20220428; **WO 2022086930 A3 20220915**; CN 116368655 A 20230630; EP 4229703 A2 20230823; IL 302201 A 20230601; JP 2023545832 A 20231031; KR 20230128264 A 20230904

DOCDB simple family (application)

US 2021055562 W 20211019; CN 202180071129 A 20211019; EP 21883679 A 20211019; IL 30220123 A 20230418; JP 2023523248 A 20211019; KR 20237016854 A 20211019