Title (en)

BATTERY WITH METALIZED FILM CURRENT COLLECTOR HAVING LOW INTERNAL RESISTANCE

Title (de)

BATTERIE MIT STROMKOLLEKTOR AUS METALLISIERTEM FILM MIT GERINGEM INNEREM WIDERSTAND

Title (fr)

BATTERIE AVEC COLLECTEUR DE COURANT À FILM MÉTALLISÉ AYANT UNE FAIBLE RÉSISTANCE INTERNE

Publication

EP 3853930 A1 20210728 (EN)

Application

EP 20821456 A 20201110

Priority

- US 201916698936 A 20191127
- US 201916732139 A 20191231
- US 2020059778 W 20201110

Abstract (en)

[origin: WO2021108118A1] Provided is a lithium electrochemical energy generating and storage device comprising an anode, a cathode, at least one separator present between said anode and said cathode, an electrolyte, and at least one current collector in contact with at least one of said anode and said cathode; wherein said current collector exhibits a resistivity greater than 0.005 Ohm/square; and wherein said electrochemical device exhibits a 2 C capacity greater than 70% of the capacity measured at 0.5 C, such current collector further comprising an insulating support layer coated with at least one conductive layer, wherein said conductive layer has a thickness that is less than 2 microns.

IPC 8 full level

H01M 4/13 (2010.01); **H01M 4/64** (2006.01)

CPC (source: CN EP KR)

H01M 4/13 (2013.01 - EP KR); **H01M 4/64** (2013.01 - EP KR); **H01M 4/661** (2013.01 - CN); **H01M 4/667** (2013.01 - CN KR); **H01M 10/0525** (2013.01 - CN KR); **H01M 10/058** (2013.01 - CN KR); Y02E 60/10 (2013.01 - EP)

Citation (search report)

See references of WO 2021108118A1

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WO 2021108118 A1 20210603; AU 2020391357 A1 20220714; AU 2020391409 A1 20220721; CA 3162966 A1 20210603; CA 3163083 A1 20210603; CN 113196532 A 20210730; CN 113196533 A 20210730; EP 3853930 A1 20210728; EP 3853931 A1 20210728; JP 2023504031 A 20230201; JP 2023504032 A 20230201; KR 20220120583 A 20220830; KR 20220122644 A 20220902; WO 2021108119 A1 20210603

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US 2020059778 W 20201110; AU 2020391357 A 20201110; AU 2020391409 A 20201110; CA 3162966 A 20201110; CA 3163083 A 20201110; CN 202080006034 A 20201110; CN 202080006057 A 20201110; EP 20819973 A 20201110; EP 20821456 A 20201110; JP 2022530865 A 20201110; JP 2022530866 A 20201110; KR 20227021902 A 20201110; KR 20227021914 A 20201110; US 2020059794 W 20201110