Title (en)

METHOD FOR MANUFACTURING ANODES FOR LITHIUM-ION BATTERIES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ANODEN FÜR LITHIUM-IONEN-BATTERIEN

Title (fr)

PROCEDE DE FABRICATION D'ANODES POUR BATTERIES A IONS DE LITHIUM

Publication

EP 3766116 A1 20210120 (FR)

Application

EP 19728498 A 20190506

Priority

- FR 1853912 A 20180507
- FR 2019051027 W 20190506

Abstract (en)

[origin: CA3098634A1] The invention relates to an anode for a lithium-ion battery, including at least one anode material and being binder-free, said anode being precharged with lithium ions, characterised in that said anode material, deposited on an electronic conductor substrate capable of serving as anode current collector, is coated with a protective coating in contact with said anode material, said protective coating being capable of protecting said anode material from the atmosphere of the environment. The anode can be deposited from a vapour phase or by electrophoresis, and the protective coating by ALD or chemically in solution.

IPC 8 full level

H01M 4/36 (2006.01); **H01M 4/04** (2006.01); **H01M 4/48** (2010.01); **H01M 4/485** (2010.01); **H01M 4/58** (2010.01); **H01M 10/052** (2010.01); **H01M 10/0562** (2010.01)

CPC (source: EP IL US)

H01M 4/0423 (2013.01 - EP IL); **H01M 4/0428** (2013.01 - EP IL US); **H01M 4/0445** (2013.01 - EP IL US); **H01M 4/0457** (2013.01 - EP IL US); **H01M 4/366** (2013.01 - EP IL US); **H01M 4/48** (2013.01 - EP IL); **H01M 4/485** (2013.01 - EP IL US); **H01M 4/58** (2013.01 - EP IL); **H01M 4/5825** (2013.01 - IL US); **H01M 4/587** (2013.01 - IL US); **H01M 10/052** (2013.01 - IL); **H01M 10/0525** (2013.01 - IL US); **H01M 10/0562** (2013.01 - IL); **H01M 50/46** (2021.01 - EP IL); H01M 10/052 (2013.01 - EP); H01M 10/0562 (2013.01 - EP); H01M 2004/027 (2013.01 - IL US); H01M 2220/30 (2013.01 - EP IL); Y02E 60/10 (2013.01 - EP IL)

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)

FR 3080862 A1 20191108; **FR 3080862 B1 20221230**; CA 3098634 A1 20191114; CN 112055903 A 20201208; EP 3766116 A1 20210120; IL 278271 A 20201231; IL 278271 B1 20231101; IL 278271 B2 20240301; JP 2021521592 A 20210826; SG 11202010856S A 20201127; US 2021367224 A1 20211125; WO 2019215406 A1 20191114

DOCDB simple family (application)

FR 1853912 A 20180507; CA 3098634 A 20190506; CN 201980029250 A 20190506; EP 19728498 A 20190506; FR 2019051027 W 20190506; IL 27827120 A 20201025; JP 2020555813 A 20190506; SG 11202010856S A 20190506; US 201917049448 A 20190506