

Title (en)

ELECTRODE MATERIALS IN THE FORM OF LITHIUM-BASED ALLOY AND METHODS FOR MANUFACTURING SAME

Title (de)

ELEKTRODENMATERIALIEN IN FORM EINER LEGIERUNG AUF LITHIUMBASIS UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

MATÉRIAUX D'ÉLECTRODE SOUS FORME D'ALLIAGE À BASE DE LITHIUM ET LEURS PROCÉDÉS DE FABRICATION

Publication

EP 3669410 A1 20200624 (FR)

Application

EP 18846110 A 20180815

Priority

- CA 2976241 A 20170815
- CA 2018050988 W 20180815

Abstract (en)

[origin: CA3073099A1] The technology described concerns lithium-based alloy electrode materials used for the production of anodes in lithium storage batteries and methods for obtaining same. The alloy comprises metallic lithium, a metallic component X1 chosen from among magnesium and aluminium and a metal component X2 chosen from among the alkali metals, alkaline earth metals, rare earth metals, zirconium, copper, silver, bismuth, cobalt, zinc, aluminium, silicon, tin, antimony, cadmium, mercury, lead, manganese, boron, indium, thallium, nickel, germanium, molybdenum and iron. The methods for preparing electrode materials as well as products and their uses are also described.

IPC 8 full level

H01M 4/134 (2010.01); **H01M 4/1395** (2010.01); **H01M 10/052** (2010.01)

CPC (source: EP KR US)

C22C 1/02 (2013.01 - EP KR US); **C22C 19/007** (2013.01 - KR); **C22C 24/00** (2013.01 - EP KR US); **H01M 4/043** (2013.01 - EP); **H01M 4/134** (2013.01 - KR); **H01M 4/405** (2013.01 - EP KR US); **H01M 10/052** (2013.01 - EP KR US); **H01M 4/0404** (2013.01 - EP); **H01M 4/5825** (2013.01 - EP); **H01M 10/0564** (2013.01 - EP); **H01M 2004/027** (2013.01 - US); **Y02E 60/10** (2013.01 - EP)

Cited by

CN114068931A

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)

CA 2976241 A1 20190215; CA 3073099 A1 20190221; CA 3073099 C 20240528; CA 3223455 A1 20190221; CA 3223455 C 20240604; CN 110998920 A 20200410; CN 110998920 B 20231027; EP 3669410 A1 20200624; EP 3669410 A4 20210519; JP 2020530937 A 20201029; JP 2023041761 A 20230324; JP 7275106 B2 20230517; KR 20200041332 A 20200421; US 11417878 B2 20220816; US 2020365887 A1 20201119; WO 2019033211 A1 20190221

DOCDB simple family (application)

CA 2976241 A 20170815; CA 2018050988 W 20180815; CA 3073099 A 20180815; CA 3223455 A 20180815; CN 201880052548 A 20180815; EP 18846110 A 20180815; JP 2020508363 A 20180815; JP 2023008030 A 20230123; KR 20207006201 A 20180815; US 201816638506 A 20180815