

Title (en)

SURFACE-MODIFIED ELECTRODES, PREPARATION METHODS AND ELECTROCHEMICAL USES

Title (de)

OBERFLÄCHENMODIFIZIERTE ELEKTRODEN, HERSTELLUNGSVERFAHREN UND ELEKTROCHEMISCHE VERWENDUNGEN

Title (fr)

ÉLECTRODES À SURFACE MODIFIÉE, PROCÉDÉS DE PRÉPARATION, ET UTILISATIONS ÉLECTROCHIMIQUES

Publication

EP 4385083 A1 20240619 (FR)

Application

EP 22854839 A 20220812

Priority

- CA 3128220 A 20210813
- CA 2022051231 W 20220812

Abstract (en)

[origin: CA3228241A1] The present technology concerns modifying the surface of an electrode film with a succession of thin layers, each with a thickness for example of 15 microns or less, with the first thin layer comprising an inorganic compound (such as a ceramic) in a solvating polymer, the inorganic compound being present in the first thin layer at a ratio by mass of inorganic compound to solvating polymer in the range from about 1:20 to about 20:1. Electrochemical cells comprising the modified electrodes are also described, as are secondary batteries comprising them.

IPC 8 full level

H01M 4/62 (2006.01); **H01M 10/0525** (2010.01)

CPC (source: EP KR)

H01M 4/043 (2013.01 - EP KR); **H01M 4/134** (2013.01 - EP KR); **H01M 4/1395** (2013.01 - EP KR); **H01M 4/405** (2013.01 - EP KR); **H01M 4/62** (2013.01 - EP KR); **H01M 4/622** (2013.01 - EP KR); **H01M 4/662** (2013.01 - EP KR); **H01M 4/663** (2013.01 - EP KR); **H01M 4/72** (2013.01 - EP KR); **H01M 10/0525** (2013.01 - EP KR); **H01M 10/0562** (2013.01 - EP KR); **H01M 10/4235** (2013.01 - EP KR); **H01M 4/366** (2013.01 - EP); **H01M 2004/021** (2013.01 - EP KR); **H01M 2004/027** (2013.01 - EP KR); **Y02E 60/10** (2013.01 - EP KR)

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)

CA 3128220 A1 20230213; CA 3228241 A1 20230216; CN 117795705 A 20240329; EP 4385083 A1 20240619; JP 2024530037 A 20240814; KR 20240045252 A 20240405; WO 2023015396 A1 20230216

DOCDB simple family (application)

CA 3128220 A 20210813; CA 2022051231 W 20220812; CA 3228241 A 20220812; CN 202280055033 A 20220812; EP 22854839 A 20220812; JP 2024507907 A 20220812; KR 20247007106 A 20220812