

Title (en)

COATING MATERIALS BASED ON UNSATURATED ALIPHATIC HYDROCARBONS AND USES THEREOF IN ELECTROCHEMICAL APPLICATIONS

Title (de)

BESCHICHTUNGSMATERIALIEN AUF BASIS UNGESÄTTIGTER ALIPHATISCHER KOHLENWASSERSTOFFE UND VERWENDUNGEN DAVON IN ELEKTROCHEMISCHEN ANWENDUNGEN

Title (fr)

MATÉRIAUX D'ENROBAGE À BASE D'HYDROCARBURES ALIPHATIQUES INSATURÉS ET LEURS UTILISATIONS DANS DES APPLICATIONS ÉLECTROCHIMIQUES

Publication

EP 4348733 A1 20240410 (FR)

Application

EP 22814657 A 20220603

Priority

- CA 3120989 A 20210603
- CA 2022050889 W 20220603

Abstract (en)

[origin: WO2022251968A1] The present technology relates to a coating material comprising at least one branched or linear unsaturated aliphatic hydrocarbon having 10 to 50 carbon atoms and having at least one carbon-carbon double or triple bond for use in electrochemical applications, in particular in electrochemical storage cells such as batteries referred to as all-solid-state batteries. The present technology also relates to coated particles comprising the coating material and methods for manufacturing same. The invention also describes electrode materials, electrodes, electrolytes, coating materials for current collectors and current collectors comprising the coated particles, and the use thereof in electrochemical cells, for example, in electrochemical storage cells, in particular in batteries referred to as all-solid-state batteries.

IPC 8 full level

H01M 4/62 (2006.01); **H01M 4/70** (2006.01); **H01M 6/18** (2006.01); **H01M 10/056** (2010.01)

CPC (source: EP)

H01M 4/62 (2013.01); **H01M 4/625** (2013.01); **H01M 10/052** (2013.01); **H01M 10/054** (2013.01); **H01M 10/0565** (2013.01); **H01M 4/366** (2013.01); **Y02E 60/10** (2013.01)

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 2022251968 A1 20221208; CA 3120989 A1 20221203; CA 3171199 A1 20221203; CN 117461171 A 20240126; EP 4348733 A1 20240410; JP 2024523807 A 20240702; KR 20240016419 A 20240206

DOCDB simple family (application)

CA 2022050889 W 20220603; CA 3120989 A 20210603; CA 3171199 A 20220603; CN 202280039814 A 20220603; EP 22814657 A 20220603; JP 2023574152 A 20220603; KR 20247000117 A 20220603