

Title (en)  
SURFACE-MODIFIED ELECTRODES, PREPARATION METHODS AND USES IN ELECTROCHEMICAL CELLS

Title (de)  
OBERFLÄCHENMODIFIZIERTE ELEKTRODEN, HERSTELLUNGSVERFAHREN UND VERWENDUNGEN IN ELEKTROCHEMISCHEN ZELLEN

Title (fr)  
ÉLECTRODES À SURFACE MODIFIÉE, PROCÉDÉS DE PRÉPARATION, ET UTILISATIONS DANS DES CELLULES ÉLECTROCHIMIQUES

Publication  
**EP 4104222 A1 20221221 (FR)**

Application  
**EP 21753996 A 20210212**

Priority  
• CA 3072784 A 20200214  
• CA 2021050150 W 20210212

Abstract (en)  
[origin: CA3166945A1] The present technology relates to the modification of the surface of an electrode comprising a thin layer, for example of 10 microns or less, of an inorganic compound (such as a ceramic) in a solid polymer, the inorganic compound being present in the thin layer at a concentration of between approximately 40% and approximately 90% by mass. Also described are the electrodes comprising the modified film, a component comprising the electrode and a solid electrolyte, and the electrochemical cells and storage batteries comprising same.

IPC 8 full level  
**H01M 4/62** (2006.01); **H01M 4/13** (2010.01); **H01M 10/056** (2010.01)

CPC (source: EP KR US)  
**H01M 4/366** (2013.01 - KR US); **H01M 4/382** (2013.01 - EP KR US); **H01M 4/48** (2013.01 - US); **H01M 4/5805** (2013.01 - KR); **H01M 4/602** (2013.01 - US); **H01M 4/628** (2013.01 - EP KR); **H01M 10/052** (2013.01 - EP KR); **H01M 10/0525** (2013.01 - US); **H01M 10/0562** (2013.01 - EP KR); **H01M 10/0568** (2013.01 - US); **H01M 10/0569** (2013.01 - US); **H01M 2004/021** (2013.01 - US); **H01M 2004/027** (2013.01 - KR US); **H01M 2220/20** (2013.01 - US); **H01M 2220/30** (2013.01 - KR); **H01M 2300/0082** (2013.01 - EP KR); **Y02E 60/10** (2013.01 - EP)

Citation (search report)  
See references of WO 2021159209A1

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 3072784 A1 20210814**; CA 3166945 A1 20210819; CN 115136359 A 20220930; EP 4104222 A1 20221221; JP 2023513248 A 20230330; KR 20220141832 A 20221020; US 2023060872 A1 20230302; WO 2021159209 A1 20210819

DOCDB simple family (application)  
**CA 3072784 A 20200214**; CA 2021050150 W 20210212; CA 3166945 A 20210212; CN 202180014680 A 20210212; EP 21753996 A 20210212; JP 2022548432 A 20210212; KR 20227031219 A 20210212; US 202117760011 A 20210212