

Title (en)
SURFACE-TREATED ELECTRODE, PROTECTION OF SOLID ELECTROLYTES, AND ELEMENTS, MODULES AND BATTERIES COMPRISING SAID ELECTRODE

Title (de)
OBERFLÄCHENBEHANDELTE ELEKTRODE, FESTELEKTROLYTSCHUTZ UND DIESE ELEKTRODE ENTHALTENDE ELEMENTE, MODULE UND BATTERIEN

Title (fr)
ELECTRODE TRAITEE EN SURFACE, PROTECTION DES ELECTROLYTES SOLIDES, LES ELEMENTS, MODULES ET BATTERIES LA COMPRENANT

Publication
EP 4165697 A1 20230419 (FR)

Application
EP 21731529 A 20210616

Priority

- FR 2006258 A 20200616
- FR 2006673 A 20200625
- EP 2021066276 W 20210616

Abstract (en)
[origin: WO2021255111A1] The present invention relates to an electrode covered, on all or part of its surface, with a coating layer made of an electronically insulating and ionically conductive material as well as the method for preparing said electrode. The present invention also relates to the protection of sulphur electrolytes in order to improve their stability with regard to moisture in particular, by means of a layer comprising an ionically conductive inorganic material comprising a halogen-type anion.

IPC 8 full level
H01M 4/131 (2010.01); **H01M 4/02** (2006.01); **H01M 4/133** (2010.01); **H01M 4/1391** (2010.01); **H01M 4/1393** (2010.01); **H01M 4/62** (2006.01); **H01M 10/0525** (2010.01); **H01M 10/0562** (2010.01); **H01M 10/42** (2006.01); **H01M 50/204** (2021.01)

CPC (source: EP US)
H01M 4/131 (2013.01 - EP); **H01M 4/133** (2013.01 - EP); **H01M 4/1391** (2013.01 - EP); **H01M 4/1393** (2013.01 - EP); **H01M 4/485** (2013.01 - US); **H01M 4/62** (2013.01 - EP); **H01M 4/625** (2013.01 - EP US); **H01M 10/0525** (2013.01 - EP US); **H01M 10/0562** (2013.01 - EP US); **H01M 10/4235** (2013.01 - EP); **H01M 50/204** (2021.01 - EP); **H01M 4/0423** (2013.01 - US); **H01M 4/0428** (2013.01 - US); **H01M 10/44** (2013.01 - US); **H01M 2004/021** (2013.01 - EP US); **H01M 2004/027** (2013.01 - EP US); **H01M 2004/028** (2013.01 - EP US); **H01M 2300/0068** (2013.01 - EP US); **H01M 2300/0094** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)
See references of WO 2021255111A1

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 2021255111 A1 20211223; CN 115885392 A 20230331; EP 4165697 A1 20230419; US 2023275222 A1 20230831

DOCDB simple family (application)
EP 2021066276 W 20210616; CN 202180043342 A 20210616; EP 21731529 A 20210616; US 202118010620 A 20210616