

Title (en)

ELECTROCHEMICAL CELLS COMPRISING NITROGEN-CONTAINING POLYMERS

Title (de)

ELEKTROCHEMISCHE ZELLEN UMFASSEND STICKSTOFF-HALTIGE POLYMERE

Title (fr)

CELLULES ÉLECTROCHIMIQUES CONTENANT UN POLYMÈRE RENFERMANT DE L'AZOTE

Publication

EP 2789031 A4 20150812 (DE)

Application

EP 12854572 A 20121129

Priority

- EP 11192262 A 20111207
- IB 2012056819 W 20121129
- EP 12854572 A 20121129

Abstract (en)

[origin: WO2013084116A1] Electrochemical cells comprise: (A) at least one cathode comprising at least one lithium ion-containing transition metal compound, (B) at least one anode, and at least one layer comprising (a) at least one polymer comprising monomer units comprising nitrogen-containing 5- or 6- membered heterocyclic aromatic structural units or comprising an organic radical which derives from a-aminophosphonic acid or from iminodiacetic acid, and (b) optionally at least one binder.

IPC 8 full level

H01M 10/0525 (2010.01); **H01M 50/449** (2021.01); **H01M 50/489** (2021.01); **H01M 4/505** (2010.01); **H01M 4/587** (2010.01); **H01M 50/417** (2021.01)

CPC (source: CN EP KR US)

C08J 5/22 (2013.01 - KR); **C08L 101/02** (2013.01 - KR); **H01M 4/386** (2013.01 - KR); **H01M 4/387** (2013.01 - KR); **H01M 4/505** (2013.01 - KR); **H01M 4/583** (2013.01 - KR); **H01M 10/0525** (2013.01 - CN KR); **H01M 50/411** (2021.01 - KR); **H01M 50/414** (2021.01 - KR); **H01M 50/449** (2021.01 - CN EP KR US); **H01M 50/463** (2021.01 - KR); **H01M 50/489** (2021.01 - CN EP US); **H01M 4/505** (2013.01 - CN EP); **H01M 4/587** (2013.01 - CN EP); **H01M 10/0525** (2013.01 - EP); **H01M 50/417** (2021.01 - CN EP US); **H01M 2220/20** (2013.01 - KR); **Y02E 60/10** (2013.01 - EP KR); **Y02P 70/50** (2015.11 - EP)

Citation (search report)

- [X] DE 10122811 A1 20021128 - DILO TRADING AG ZUG [CH]
- [X] EP 2214226 A1 20100804 - NITTO DENKO CORP [JP]
- [X] WO 2009103537 A1 20090827 - FREUDENBERG CARL KG [DE], et al
- See references of WO 2013084116A1

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

DOCDB simple family (publication)

WO 2013084116 A1 20130613; CN 103959511 A 20140730; EP 2789031 A1 20141015; EP 2789031 A4 20150812; JP 2015505122 A 20150216; JP 5717929 B2 20150513; KR 20140104995 A 20140829

DOCDB simple family (application)

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