

Title (en)
ELECTROCHEMICAL CELLS

Title (de)
ELEKTROCHEMISCHE ZELLEN

Title (fr)
CELLULES ÉLECTROCHIMIQUES

Publication
EP 2742552 A4 20150506 (DE)

Application
EP 12822507 A 20120719

Priority
• EP 11176823 A 20110808
• IB 2012053671 W 20120719
• EP 12822507 A 20120719

Abstract (en)
[origin: WO2013021299A1] The invention discloses an electrochemical cell, which comprises (A) at least one cathode comprising at least one lithium ion-containing transition metal compound, (B) at least one anode, (C) at least one layer comprising (a) at least one lithium- and oxygen-containing, electrochemically active transition metal compound, and (b) optionally at least one binder, and (D) at least one electrically nonconductive, porous and ion-pervious layer positioned between cathode (A) and layer (C), and at least one electrically nonconductive, porous and ion-pervious layer positioned between anode (B) and layer (C). The invention further discloses the use of an electrochemical cell, the production thereof and a specific separator for the separation of a cathode and an anode in an electrochemical cell.

IPC 8 full level
H01M 10/052 (2010.01); **H01M 10/0525** (2010.01); **H01M 50/449** (2021.01); **H01M 50/437** (2021.01); **H01M 50/489** (2021.01)

CPC (source: CN EP KR US)
H01M 4/386 (2013.01 - KR); **H01M 4/387** (2013.01 - KR); **H01M 4/485** (2013.01 - KR); **H01M 4/505** (2013.01 - KR); **H01M 10/0525** (2013.01 - KR); **H01M 10/058** (2013.01 - KR); **H01M 50/414** (2021.01 - KR); **H01M 50/443** (2021.01 - KR); **H01M 50/446** (2021.01 - KR); **H01M 50/449** (2021.01 - CN EP KR US); **H01M 50/463** (2021.01 - KR); **H01M 50/489** (2021.01 - KR); **H01M 10/052** (2013.01 - CN EP); **H01M 50/437** (2021.01 - CN EP US); **H01M 50/489** (2021.01 - CN EP US); **H01M 2220/10** (2013.01 - KR); **H01M 2220/20** (2013.01 - KR); **Y02E 60/10** (2013.01 - EP KR); **Y02P 70/50** (2015.11 - EP)

Citation (search report)
• [XY] DE 102009018804 A1 20101028 - LI TEC BATTERY GMBH [DE]
• [Y] EP 1852926 A1 20071107 - FREUDENBERG CARL KG [DE]
• [Y] CA 2775316 A1 20110407 - LG CHEMICAL LTD [KR]
• [Y] EP 0949699 A2 19991013 - NGK INSULATORS LTD [JP]
• [Y] WO 2008039417 A1 20080403 - ZPOWER INC [US], et al
• [Y] US 2011123850 A1 20110526 - DUONG HIEU [US], et al
• See also references of WO 2013021299A1

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 2013021299 A1 20130214; CN 103718339 A 20140409; EP 2742552 A1 20140618; EP 2742552 A4 20150506; JP 2014527266 A 20141009; JP 5686928 B2 20150318; KR 20140064845 A 20140528

DOCDB simple family (application)
IB 2012053671 W 20120719; CN 201280037313 A 20120719; EP 12822507 A 20120719; JP 2014524462 A 20120719; KR 20147006148 A 20120719