

Title (en)
ELECTROCHEMICAL CELL

Title (de)
ELEKTROCHEMISCHE ZELLE

Title (fr)
CELLULE ÉLECTROCHIMIQUE

Publication
EP 2715859 A1 20140409 (DE)

Application
EP 12721419 A 20120518

Priority
• DE 102011102628 A 20110527
• EP 2012002141 W 20120518

Abstract (en)
[origin: WO2012163485A1] Electrochemical cell having at least one negative electrode, at least one positive electrode and at least one electrolyte, wherein the at least one negative electrode essentially has at least one carbon-containing electrochemical active material which is capable of forming a "solid electrolyte interface", that is to say an SEI layer, on at least parts of the surface of the electrode, the electrochemical cell has at least one stabilizing additive which is capable of stabilizing the SEI layer, wherein at least one protective device is provided in the electrochemical cell, said protective device having the at least one stabilizing additive and preferably being designed as a storage container, wherein the at least one stabilizing additive is at least partially released from the at least one protective device when, in respect of the SEI layer, at least one predetermined parameter is reached or exceeded or undershot.

IPC 8 full level
H01M 10/42 (2006.01); **H01M 4/133** (2010.01); **H01M 4/587** (2010.01); **H01M 4/62** (2006.01); **H01M 10/0525** (2010.01); **H01M 10/0567** (2010.01)

CPC (source: CN EP KR)
H01M 4/133 (2013.01 - CN EP KR); **H01M 4/587** (2013.01 - CN EP KR); **H01M 4/62** (2013.01 - KR); **H01M 4/628** (2013.01 - CN EP); **H01M 10/0525** (2013.01 - CN EP KR); **H01M 10/0567** (2013.01 - CN EP KR); **H01M 10/42** (2013.01 - KR); **H01M 10/4235** (2013.01 - CN EP); **Y02E 60/10** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP)

Citation (search report)
See references of WO 2012163485A1

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)
DE 102011102628 A1 20121129; CN 103563159 A 20140205; EP 2715859 A1 20140409; JP 2014517996 A 20140724; KR 20140031318 A 20140312; WO 2012163485 A1 20121206

DOCDB simple family (application)
DE 102011102628 A 20110527; CN 201280025822 A 20120518; EP 12721419 A 20120518; EP 2012002141 W 20120518; JP 2014511760 A 20120518; KR 20137033182 A 20120518