

Title (en)
ELECTROLYTE COMPOSITION FOR A LITHIUM-ION ELECTROCHEMICAL ELEMENT

Title (de)
ELEKTROLYTZUSAMMENSETZUNG FÜR EIN ELEKTROCHEMISCHES LITHIUM-IONEN-ELEMENT

Title (fr)
COMPOSITION D'ÉLECTROLYTE POUR ÉLÉMENT ÉLECTROCHIMIQUE DE TYPE LITHIUM-ION

Publication
EP 3729552 A1 20201028 (FR)

Application
EP 18830272 A 20181221

Priority
• FR 1763010 A 20171222
• EP 2018086539 W 20181221

Abstract (en)
[origin: WO2019122314A1] An electrolyte composition for a lithium-ion electrochemical element, comprising: - at least one lithium tetrafluoride or hexafluoride salt, - the salts of lithium bis(fluorosulfonyl)imide LiFSI, - vinylene carbonate, - ethylene sulfate, - at least one organic solvent chosen from the group consisting of cyclic or linear carbonates, cyclic or linear esters, cyclic or linear ethers and a mixture of same. The use of this composition in a lithium-ion electrochemical element increases the service life of the element, in particular under low and high temperature cycling conditions.

IPC 8 full level
H01M 10/0567 (2010.01); **H01M 4/505** (2010.01); **H01M 4/525** (2010.01); **H01M 4/58** (2010.01); **H01M 4/587** (2010.01); **H01M 10/0525** (2010.01); **H01M 10/0568** (2010.01); **H01M 10/0569** (2010.01)

CPC (source: EP US)
H01M 4/133 (2013.01 - US); **H01M 4/505** (2013.01 - US); **H01M 4/525** (2013.01 - US); **H01M 4/583** (2013.01 - US); **H01M 10/0525** (2013.01 - EP US); **H01M 10/0567** (2013.01 - EP US); **H01M 10/0568** (2013.01 - EP US); **H01M 10/0569** (2013.01 - US); **H01M 10/44** (2013.01 - US); **H01M 4/505** (2013.01 - EP); **H01M 4/525** (2013.01 - EP); **H01M 4/5825** (2013.01 - EP); **H01M 4/587** (2013.01 - EP); **H01M 10/0569** (2013.01 - EP); **H01M 2300/0025** (2013.01 - EP); **H01M 2300/0037** (2013.01 - US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)
See references of WO 2019122314A1

Designated contracting state (EPC)
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Designated extension state (EPC)
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DOCDB simple family (publication)
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EP 2018086539 W 20181221; CN 201880081800 A 20181221; EP 18830272 A 20181221; FR 1763010 A 20171222; US 201816772060 A 20181221