

Title (en)

ELECTROLYTE COMPOSITIONS, METHODS OF MAKING AND BATTERY DEVICES FORMED THERE FROM

Title (de)

ELEKTROLYTZUSAMMENSETZUNGEN, VERFAHREN ZUR HERSTELLUNG UND DARAUS GEFORMTE BATTERIEVORRICHTUNGEN

Title (fr)

COMPOSITIONS D'ÉLECTROLYTE, PROCÉDÉS DE FABRICATION ET DISPOSITIFS BATTERIES FORMÉS À PARTIR DE CEUX-CI

Publication

EP 2929588 A4 20161207 (EN)

Application

EP 13860259 A 20131018

Priority

- US 201213706323 A 20121205
- US 2013065784 W 20131018

Abstract (en)

[origin: WO2014088711A1] The invention generally encompasses phosphonium ionic liquids, salts, compositions and their use in many applications, including but not limited to: as electrolytes in electronic devices such as memory devices including static, permanent and dynamic random access memory, as electrolytes in energy storage devices such as batteries, electrochemical double layer capacitors (EDLCs) or supercapacitors or ultracapacitors, electrolytic capacitors, as electrolytes in dye-sensitized solar cells (DSSCs), as electrolytes in fuel cells, as a heat transfer medium, among other applications. In particular, the invention generally relates to phosphonium ionic liquids, salts, compositions, wherein the compositions exhibit superior combination of thermodynamic stability, low volatility, wide liquidus range, ionic conductivity, and electrochemical stability. The invention further encompasses methods of making such phosphonium ionic liquids, salts, compositions, operational devices and systems comprising the same.

IPC 8 full level

H01M 10/0567 (2010.01); **H01M 4/48** (2010.01); **H01M 4/485** (2010.01); **H01M 4/505** (2010.01); **H01M 4/525** (2010.01); **H01M 4/58** (2010.01); **H01M 4/587** (2010.01); **H01M 10/052** (2010.01); **H01M 10/0568** (2010.01); **H01M 10/0569** (2010.01)

CPC (source: EP)

H01M 10/052 (2013.01); **H01M 10/0567** (2013.01); **H01M 10/0568** (2013.01); **H01M 2300/0045** (2013.01); **Y02E 60/10** (2013.01)

Citation (search report)

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- [IA] US 2010003597 A1 20100107 - TSUNASHIMA KATSUHIKO [JP], et al
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- See references of WO 2014088711A1

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 2014088711 A1 20140612; CN 104969405 A 20151007; EP 2929588 A1 20151014; EP 2929588 A4 20161207; JP 2014139921 A 20140731; JP 2016506033 A 20160225; KR 20150092271 A 20150812

DOCDB simple family (application)

US 2013065784 W 20131018; CN 201380072288 A 20131018; EP 13860259 A 20131018; JP 2013217129 A 20131018; JP 2015546467 A 20131018; KR 20157017818 A 20131018