

Title (en)
SODIUM-HALOGEN SECONDARY CELL

Title (de)
NATRIUMHALOGENSEKUNDÄRZELLE

Title (fr)
CELLULE ÉLECTROCHIMIQUE AU SODIUM/HALOGÈNE

Publication
EP 3042415 A1 20160713 (EN)

Application
EP 14842956 A 20141009

Priority
• US 201314019651 A 20130906
• US 201361888933 P 20131009
• US 2014059954 W 20141009

Abstract (en)
[origin: WO2015035427A1] A sodium-halogen secondary cell that includes a negative electrode compartment housing a negative, sodium-based electrode and a positive electrode compartment housing a current collector disposed in a liquid positive electrode solution. The liquid positive electrode solution includes a halogen and/or a halide. The cell includes a sodium ion conductive electrolyte membrane that separates the negative electrode from the liquid positive electrode solution. Although in some cases, the negative sodium-based electrode is molten during cell operation, in other cases, the negative electrode includes a sodium electrode or a sodium intercalation carbon electrode that is solid during operation.

IPC 8 full level
H01M 4/58 (2010.01); **H01M 6/18** (2006.01); **H01M 8/18** (2006.01); **H01M 10/36** (2010.01); **H01M 10/39** (2006.01); **H01M 10/0562** (2010.01)

CPC (source: EP KR)
H01M 4/582 (2013.01 - EP KR); **H01M 6/18** (2013.01 - EP KR); **H01M 8/18** (2013.01 - KR); **H01M 10/39** (2013.01 - EP KR);
H01M 8/18 (2013.01 - EP); **H01M 2300/0077** (2013.01 - EP KR); **Y02E 60/10** (2013.01 - EP KR); **Y02E 60/50** (2013.01 - EP)

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2015035427 A1 20150312; EP 3042415 A1 20160713; EP 3042415 A4 20170503; JP 2016534528 A 20161104;
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