

Title (en)
BATTERY PROTECTION DEVICE

Title (de)
BATTERIESCHUTZVORRICHTUNG

Title (fr)
DISPOSITIF DE PROTECTION DE BATTERIE

Publication
EP 3387686 A4 20190619 (EN)

Application
EP 16871853 A 20161212

Priority
• US 201562266029 P 20151211
• CA 2016000311 W 20161212

Abstract (en)
[origin: WO2017096464A1] A battery including an autonomous protection device electrically connected in series between the plurality of electrochemical cells and one of the positive pole and the negative pole of the battery.

IPC 8 full level
H01M 2/34 (2006.01); **H01M 10/42** (2006.01); **H01M 50/204** (2021.01); **H01H 37/00** (2006.01); **H01H 39/00** (2006.01); **H01M 2/10** (2006.01)

CPC (source: EP KR US)
H01H 37/002 (2013.01 - KR); **H01M 10/425** (2013.01 - EP KR); **H01M 10/4257** (2013.01 - KR); **H01M 50/20** (2021.01 - KR);
H01M 50/204 (2021.01 - EP US); **H01M 50/581** (2021.01 - EP KR); **H01H 37/002** (2013.01 - EP); **H01H 2039/008** (2013.01 - EP KR);
H01M 2200/00 (2013.01 - EP KR); **H01M 2200/10** (2013.01 - EP KR); **H01M 2220/20** (2013.01 - EP KR); **Y02E 60/10** (2013.01 - EP KR)

Citation (search report)
• [Y] US 2012058382 A1 20120308 - CARIGNAN CLAUDE [CA], et al
• [Y] US 2011216451 A1 20110908 - HAINES JOSHUA P [US], et al
• [Y] US 2013179012 A1 20130711 - HERMANN WESTON ARTHUR [US], et al
• [A] EP 2672548 A1 20131211 - LG CHEMICAL LTD [KR]
• [A] EP 2631969 A1 20130828 - AUTOLIV DEV [SE]
• See references of WO 2017096464A1

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 2017096464 A1 20170615; CA 3007841 A1 20170615; CN 109155388 A 20190104; EP 3387686 A1 20181017; EP 3387686 A4 20190619;
JP 2019506837 A 20190307; KR 20180118607 A 20181031

DOCDB simple family (application)
CA 2016000311 W 20161212; CA 3007841 A 20161212; CN 201680080186 A 20161212; EP 16871853 A 20161212;
JP 2018549373 A 20161212; KR 20187019837 A 20161212