

Title (en)
THREE-DIMENSIONAL THIN FILM BATTERY

Title (de)
DREIDIMENSIONALE DÜNNSCHICHTBATTERIE

Title (fr)
BATTERIE TRIDIMENSIONNELLE À COUCHES MINCES

Publication
EP 3186850 A4 20180124 (EN)

Application
EP 15835274 A 20150827

Priority
• US 201462042557 P 20140827
• US 2015047286 W 20150827

Abstract (en)
[origin: WO2016033379A1] A thin film battery may comprise: a substrate comprising a substrate surface; a first current collector (FCC) layer formed on the substrate surface, the FCC layer having a first FCC surface and a second FCC surface and wherein the first FCC surface is in contact with the substrate and the second FCC surface is a first three-dimensional surface; a first electrode layer deposited on the first current collector, and an electrolyte layer deposited on the first electrode layer; wherein the interface between the first electrode layer and the electrolyte layer is a second three-dimensional surface roughly in conformity with the first three-dimensional surface. In embodiments, the substrate surface is a third three-dimensional surface and the first three-dimensional surface is roughly in conformity with the third three-dimensional surface. One of the first or the third three-dimensional surfaces may be formed by a laser ablation patterning process.

IPC 8 full level
H01M 4/04 (2006.01); **H01M 4/13** (2010.01); **H01M 4/139** (2010.01); **H01M 4/66** (2006.01); **H01M 4/70** (2006.01); **H01M 10/04** (2006.01); **H01M 10/052** (2010.01); **H01M 10/0562** (2010.01); **H01M 10/0585** (2010.01)

CPC (source: EP KR)
H01M 4/04 (2013.01 - EP KR); **H01M 4/0404** (2013.01 - EP KR); **H01M 4/0421** (2013.01 - KR); **H01M 4/13** (2013.01 - EP KR); **H01M 4/139** (2013.01 - EP KR); **H01M 4/70** (2013.01 - EP KR); **H01M 10/0436** (2013.01 - EP KR); **H01M 10/052** (2013.01 - EP KR); **H01M 10/0562** (2013.01 - EP KR); **H01M 10/0585** (2013.01 - EP KR); **H01M 4/0421** (2013.01 - EP); **H01M 4/0423** (2013.01 - EP); **H01M 4/0426** (2013.01 - EP); **H01M 4/0428** (2013.01 - EP); **H01M 2300/0068** (2013.01 - EP); **H01M 2300/0071** (2013.01 - EP KR); **Y02E 60/10** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP)

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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 2016033379 A1 20160303; CN 106663841 A 20170510; EP 3186850 A1 20170705; EP 3186850 A4 20180124; JP 2017530518 A 20171012; KR 20170044730 A 20170425; TW 201622228 A 20160616

DOCDB simple family (application)
US 2015047286 W 20150827; CN 201580044474 A 20150827; EP 15835274 A 20150827; JP 2017511263 A 20150827; KR 20177008178 A 20150827; TW 104127703 A 20150825