

Title (en)
APPARATUS AND METHOD FOR FORMING 3D NANOSTRUCTURE ELECTRODE FOR ELECTROCHEMICAL BATTERY OR CAPACITOR

Title (de)
VORRICHTUNG UND VERFAHREN ZUR FORMUNG VON 3D-NANOSTRUKTURELEKTRODEN FÜR ELEKTROCHEMISCHE BATTERIEN ODER KONDENSATOREN

Title (fr)
APPAREIL ET PROCÉDÉ DE FABRICATION D UNE ÉLECTRODE À NANOSTRUCTURE EN 3D POUR UNE BATTERIE OU UN CONDENSATEUR ÉLECTROCHIMIQUE

Publication
EP 2351138 A2 20110803 (EN)

Application
EP 09828243 A 20091119

Priority
• US 2009065205 W 20091119
• US 11753508 P 20081124
• US 62078809 A 20091118

Abstract (en)
[origin: US2010126849A1] Embodiments described herein generally relate to an electrode structure for an electrochemical battery or capacitor, particularly, apparatus and methods of creating a reliable and cost efficient 3D electrode nano structure for an electrochemical battery or capacitor that has an improved lifetime, lower production costs, and improved process performance.

IPC 8 full level
C23C 2/00 (2006.01); **C23C 2/14** (2006.01); **H01G 9/042** (2006.01); **H01M 10/04** (2006.01); **H01M 10/0525** (2010.01)

CPC (source: EP KR US)
C25D 1/003 (2013.01 - EP KR US); **C25D 5/022** (2013.01 - EP KR US); **C25D 5/08** (2013.01 - EP KR US); **C25D 5/605** (2020.08 - EP US); **C25D 5/623** (2020.08 - EP US); **C25D 7/00** (2013.01 - EP KR US); **C25D 7/0621** (2013.01 - KR); **C25D 7/0628** (2013.01 - KR); **C25D 7/0678** (2013.01 - KR); **C25D 7/0685** (2013.01 - KR); **C25D 17/00** (2013.01 - EP KR US); **C25D 17/005** (2013.01 - KR); **C25D 17/06** (2013.01 - KR); **C25D 17/10** (2013.01 - EP KR US); **C25D 21/08** (2013.01 - KR); **H01M 4/0438** (2013.01 - EP US); **H01G 11/86** (2013.01 - KR); **H01G 13/00** (2013.01 - KR); **H01M 4/0452** (2013.01 - KR); **H01M 4/139** (2013.01 - KR); **H01M 10/052** (2013.01 - KR); **Y02E 60/10** (2013.01 - EP KR); **Y02E 60/13** (2013.01 - EP KR US); **Y02P 70/50** (2015.11 - EP KR)

Citation (search report)
See references of WO 2010059865A2

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
US 2010126849 A1 20100527; CN 102224628 A 20111019; EP 2351138 A2 20110803; JP 2012510163 A 20120426; KR 20110097898 A 20110831; TW 201030190 A 20100816; WO 2010059865 A2 20100527; WO 2010059865 A3 20100902

DOCDB simple family (application)
US 62078809 A 20091118; CN 200980147106 A 20091119; EP 09828243 A 20091119; JP 2011537629 A 20091119; KR 20117014504 A 20091119; TW 98139985 A 20091124; US 2009065205 W 20091119