

Title (en)  
METHOD FOR MANUFACTURING A  $\text{SnO}_2$  COMPOSITE MATERIAL AND CARBON NANOTUBES AND/OR CARBON NANOFIBRES, MATERIAL OBTAINED BY THE METHOD, AND LITHIUM BATTERY ELECTRODE COMPRISING SAID MATERIAL

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES VERBUNDWERKSTOFFS AUS  $\text{SnO}_2$  UND KOHLENSTOFFNANORÖHREN UND/ODER KOHLENSTOFFNANOFASERN, NACH DEM VERFAHREN ERHALTENER WERKSTOFF UND DAS MATERIAL UMFASSENDE LITHIUMBATTERIEELEKTRODE

Title (fr)  
PROCEDE DE FABRICATION D'UN MATERIAU COMPOSITE  $\text{SnO}_2$  ET NANOTUBES DE CARBONE ET/OU NANOFIBRES DE CARBONE, MATERIAU OBTENU PAR LE PROCEDE, ELECTRODE POUR BATTERIE AU LITHIUM COMPORTANT LEDIT MATERIAU

Publication  
**EP 2356070 A1 20110817 (FR)**

Application  
**EP 09803810 A 20091204**

Priority  
• FR 2009052408 W 20091204  
• FR 0858459 A 20081211

Abstract (en)  
[origin: WO2010066989A1] The invention relates to a method for manufacturing a composite material including tin oxide particles and a fibrillar carbon material, consisting of synthesising tin hydroxide particles obtained from a tin salt by precipitation/nucleation in a water-alcohol medium, in the presence of the fibrillar carbon material and an acid, the fibrillar carbon material being nanotubes, carbon nanofibres, or a mixture of the two. The invention can be used for the production of negative electrodes for lithium-ion batteries.

IPC 8 full level  
**C01B 31/02** (2006.01); **C01G 19/02** (2006.01); **H01M 4/48** (2010.01); **H01M 4/58** (2010.01)

CPC (source: EP KR US)  
**B82Y 30/00** (2013.01 - EP US); **B82Y 40/00** (2013.01 - EP US); **C01B 32/168** (2017.07 - EP KR US); **C01B 32/17** (2017.07 - EP KR US); **H01M 4/13** (2013.01 - EP KR US); **H01M 4/48** (2013.01 - EP KR US); **H01M 4/587** (2013.01 - EP KR US); **H01M 10/0525** (2013.01 - EP KR US); **B82Y 30/00** (2013.01 - KR); **B82Y 40/00** (2013.01 - KR); **C01B 2202/36** (2013.01 - EP KR US); **Y02E 60/10** (2013.01 - EP KR)

Citation (search report)  
See references of WO 2010066989A1

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)  
**WO 2010066989 A1 20100617**; CN 102307807 A 20120104; EP 2356070 A1 20110817; FR 2939786 A1 20100618; FR 2939786 B1 20110325; JP 2012511492 A 20120524; KR 20110094186 A 20110822; US 2011297889 A1 20111208

DOCDB simple family (application)  
**FR 2009052408 W 20091204**; CN 200980156178 A 20091204; EP 09803810 A 20091204; FR 0858459 A 20081211; JP 2011540157 A 20091204; KR 20117013273 A 20091204; US 200913133835 A 20091204