

Title (en)

METHOD FOR STORING ELECTRICITY IN QUANTUM BATTERIES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON SUPERKONDENSATOREN

Title (fr)

PROCEDE DE STOCKAGE D'ENERGIE ELECTRIQUE DANS DES BATTERIES QUANTIQUES

Publication

**EP 1522082 A2 20050413 (DE)**

Application

**EP 03729779 A 20030626**

Priority

- CH 0300423 W 20030626
- CH 11302002 A 20020701

Abstract (en)

[origin: WO2004004026A2] Disclosed is a method with which quantum batteries (super capacitors) can be produced from materials which consist of chemically highly dipolar crystals in the form of nanometer-sized grains or layers that are embedded in electrically insulating matrix materials or intermediate layers, and are applied to compound foils or fixed flat bases. Said materials are assembled so as to form wound capacitors or flat capacitors which are able to store electricity in a range of up to 15 MJ/kg or more without any loss due to the effect of virtual photon resonance.

IPC 1-7

**H01G 4/20**

IPC 8 full level

**H01G 4/12** (2006.01); **H01G 4/00** (2006.01); **H01G 4/20** (2006.01); **H01G 4/33** (2006.01); **H01G 9/00** (2006.01); **H01G 9/155** (2006.01)

IPC 8 main group level

**H01M** (2006.01)

CPC (source: EP US)

**H01G 4/206** (2013.01 - US); **H01G 11/26** (2013.01 - EP); **H01G 11/46** (2013.01 - US); **H01G 11/56** (2013.01 - EP); **B82Y 40/00** (2013.01 - EP); **H01L 28/82** (2013.01 - EP); **H01M 10/36** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP); **Y02E 60/13** (2013.01 - EP US); **Y10T 29/43** (2015.01 - EP US); **Y10T 29/435** (2015.01 - EP US); **Y10T 29/49108** (2015.01 - EP US)

Citation (search report)

See references of WO 2004004026A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2004004026 A2 20040108**; **WO 2004004026 A3 20040325**; AU 2003240363 A1 20040119; AU 2003240363 A8 20040119; CA 2491552 A1 20040108; CN 1679123 A 20051005; CN 1679123 B 20100428; EP 1522082 A2 20050413; JP 2005531922 A 20051020; JP 2010093306 A 20100422; JP 4986398 B2 20120725; RU 2005102398 A 20050820; RU 2357313 C2 20090527; US 2006164788 A1 20060727; US 2008016681 A1 20080124; US 7895721 B2 20110301

DOCDB simple family (application)

**CH 0300423 W 20030626**; AU 2003240363 A 20030626; CA 2491552 A 20030626; CN 03820319 A 20030626; EP 03729779 A 20030626; JP 2004516408 A 20030626; JP 2010015505 A 20100127; RU 2005102398 A 20030626; US 51949105 A 20050810; US 89235307 A 20070822