

Title (en)

HYBRID MATERIALS AND NANOCOMPOSITE MATERIALS, METHODS OF MAKING SAME, AND USES THEREOF

Title (de)

HYBRIDMATERIALIEN UND NANOVERBUNDMATERIALIEN, HERSTELLUNGSVERFAHREN DAFÜR UND VERWENDUNGEN DAVON

Title (fr)

MATÉRIAUX HYBRIDES ET MATÉRIAUX NANOCOMPOSITES, LEURS PROCÉDÉS DE FABRICATION ET LEURS UTILISATIONS

Publication

EP 2726403 A4 20150408 (EN)

Application

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Priority

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Abstract (en)

[origin: WO2013003836A2] Hybrid materials and nanocomposite materials, methods of making and using such materials. The nanoparticles of the nanocomposite are formed in situ during pyrolysis of a hybrid material comprising metal precursor compounds. The nanoparticles are uniformly distributed in the carbon matrix of the nanocomposite. The nanocomposite materials can be used in devices such as, for example, electrodes and on-chip inductors.

IPC 8 full level

B82B 1/00 (2006.01); **B82B 3/00** (2006.01); **C01G 19/00** (2006.01); **C01G 49/06** (2006.01); **C01G 49/08** (2006.01); **H01M 2/16** (2006.01)

CPC (source: EP KR)

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Citation (search report)

- [X] US 7385003 B1 20080610 - THOMA STEVEN G [US], et al
- [X] YUANZHE PIAO ET AL: "Facile scalable synthesis of magnetite nanocrystals embedded in carbon matrix as superior anode materials for lithium-ion batteries", CHEMICAL COMMUNICATIONS, vol. 46, no. 1, 1 January 2010 (2010-01-01), pages 118, XP055171351, ISSN: 1359-7345, DOI: 10.1039/b920037a & YUANZHE PIAO ET AL: "Supplementary Information for: Facile scalable synthesis of magnetite nanocrystals embedded in carbon matrix as superior anode materials for lithium-ion batteries", CHEM. COMMUN., 2010,46, 118-120, 16 November 2009 (2009-11-16), pages 1 - 11, XP055171391, Retrieved from the Internet <URL:http://www.rsc.org/suppdata/cc/b9/b920037a/b920037a.pdf> [retrieved on 20150223], DOI: 10.1039/B920037A
- See references of WO 2013003836A2

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