



(11)

**EP 1 991 497 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:  
**Corrected version no 1 (W1 B1)**  
**Corrections, see**  
**Bibliography INID code(s) 73**

(51) Int Cl.:  
**B82B 3/00** <sup>(2006.01)</sup> **H01L 51/00** <sup>(2006.01)</sup>  
**C01B 32/172** <sup>(2017.01)</sup>

(48) Corrigendum issued on:  
**20.12.2017 Bulletin 2017/51**

(86) International application number:  
**PCT/FI2007/000059**

(45) Date of publication and mention  
of the grant of the patent:  
**01.11.2017 Bulletin 2017/44**

(87) International publication number:  
**WO 2007/101906 (13.09.2007 Gazette 2007/37)**

(21) Application number: **07712601.9**

(22) Date of filing: **07.03.2007**

(54) **METHOD FOR DEPOSITING HIGH ASPECT RATIO MOLECULAR STRUCTURES**

VERFAHREN ZUR ANORDNUNG VON MOLEKULAREN STRUKTUREN MIT HOHEM  
ASPEKTVERHÄLTNIS

PROCEDE DE DEPOT DE STRUCTURES MOLECULAIRES A FACTEUR DE FORME ELEVE

(84) Designated Contracting States:  
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR  
HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE  
SI SK TR**

(30) Priority: **08.03.2006 FI 20060227**

(43) Date of publication of application:  
**19.11.2008 Bulletin 2008/47**

(73) Proprietor: **Canatu Oy**  
**00390 Helsinki (FI)**

(72) Inventors:  
• **KAUPPINEN, Esko**  
**FI-00730 Helsinki (FI)**  
• **NASIBULIN, Albert**  
**FI-02760 Espoo (FI)**  
• **BROWN, David**  
**FI-00320 Helsinki (FI)**  
• **GONZALEZ, David**  
**FI-00150 Helsinki (FI)**

(74) Representative: **Papula Oy**  
**P.O. Box 981**  
**00101 Helsinki (FI)**

(56) References cited:  
**WO-A1-2005/061382 WO-A1-2006/099749**  
**WO-A1-2006/125457 WO-A2-02/03430**  
**WO-A2-2005/065425 WO-A2-2005/085130**  
**WO-A2-2005/085131 WO-A2-2006/138263**  
**US-A1- 2003 090 190 US-A1- 2003 102 222**  
**US-A1- 2005 118 338 US-A1- 2005 164 583**  
**US-A1- 2006 131 172 US-A1- 2007 045 119**  
**US-A1- 2007 046 164**

• **KRINKE THOMAS J ET AL: "Positioning of  
nanometer-sized particles on flat surfaces by  
direct deposition from the gas phase", APPLIED  
PHYSICS LETTERS, AMERICAN INSTITUTE OF  
PHYSICS, 2 HUNTINGTON QUADRANGLE,  
MELVILLE, NY 11747, vol. 78, no. 23, 4 June 2001  
(2001-06-04), pages 3708-3710, XP012028237,  
ISSN: 0003-6951, DOI: 10.1063/1.1377625**

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

**EP 1 991 497 B8**

- WELLE AARON ET AL: "Printing of organic and inorganic nanomaterials using electrospray ionization and Coulomb-force-directed assembly", APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS, 2 HUNTINGTON QUADRANGLE, MELVILLE, NY 11747, vol. 87, no. 26, 29 December 2005 (2005-12-29), pages 263119-263119, XP012077118, ISSN: 0003-6951, DOI: 10.1063/1.2149985
- KIM S.H. AND ZACHARIAH M.R.: 'In-flight size classification of carbon nanotubes by gas phase electrophoresis' NANOTECHNOLOGY vol. 16, 2005, pages 2149 - 2152, XP020090758
- Chad R Barry ET AL: "Nanoparticle Assembly by Nanoxerography", , 5 January 2004 (2004-01-05), XP055295797, Retrieved from the Internet: URL:<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.143.8017&rep=rep1&type=pdf> [retrieved on 2016-08-16]