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(54) Title: STABILIZED AND CHEMICALLY FUNCTIONALIZED NANOPARTICLES

(57) Abstract: Dendronization of nano-scale surfaces with focal point reactive dendrons to produce stabilized chemically functionalized nano-particles having quantum dot dimensions.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/23483

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B05D 7/00, 7/24
 US CL : 427/162, 212, 214, 215, 216, 220; 257/E29.071

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 427/162, 212, 213.3, 214, 215, 216, 220; 257/E29.071, 788

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 none

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P --- Y,P	US 2004/0101976 A1 (PENG et al) 27 May 2004 (27.05.2004), entire document, including figures.	1-20, 23-48, and 50 ----- 21, 22, 49
Y	US 6,020,457 A (KLIMASH et al) 01 February 2000 (01.02.2000), entire document, especially the abstract.	21, 22
Y	US 2003/0093092 A1 (WEST et al) 15 May 2003 (15.05.2003), paragraph [0081].	49
A	KR 2002-072671 A (JUN et al) 18 September 2002 (18.09.2002), abstract.	1-50
A	US 6,261,779 B1 (BARBERA-GUILLEM et al) 17 July 2001 (17.07.2001), entire document.	1-50
A,P	US 6,649,138 B2 (ADAMS et al) 18 November 2003 (18.11.2003), entire document.	1-50
A	US 2003/0109056 A1 (VOSSMEYER et al) 12 June 2003 (12.06.2003), entire document.	1-50
A,P	US 2003/0173541 A1 (PENG et al) 18 September 2003 (18.09.2003), entire document.	1-50

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Date of the actual completion of the international search

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/0013283 A1 (TOMALIA et al) 31 January 2002 (31.01.2002), entire document.	1-50
A	US 5,938,934 A (BALOGH et al) 17 August 1999 (17.08.1999), entire document.	1-50
A	US 2001/0011109 A1 (TOMALIA et al) 02 August 2001 (02.08.2001), entire document.	1-50
A	WO 00/46839 A2 (LAKOWICZ et al) 10 August 2000 (10.08.2000), entire document.	1-50
A,P	WO 2004/031732 A2 (PENG et al) 15 April 2004 (15.04.2004), entire document.	1-50

INTERNATIONAL SEARCH REPORT

International application No.
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Continuation of B. FIELDS SEARCHED Item 3:

EAST electronic database search for US patents, PG publications, Derwent abstracts, JPAB, EPAB, and IBM technical disclosure bulletins

search terms: dendron, dendrimer, nanoparticle, nanocrystal, quantum dot, nanoparticulate, stabilize, sheath, passivate, sol gel, colloid, and variations and combinations thereof