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WI 53715 (US). **LASSETER, Tami** [US/US]; 330 Norris
Court, Apt. #9, Madison, WI 53703 (US).

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(74) Agent: **MANNING, Michelle**; Foley & Lardner, 150 E.
Gilman Street, P.O. Box 1497, Madison, WI 53701-1497
(US).

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(71) Applicant (for all designated States except US): **WIS-
CONSIN ALUMNI RESEARCH FOUNDATION**
[US/US]; P.O. Box 7365, Madison, WI 53707-7365 (US).

(72) Inventors; and

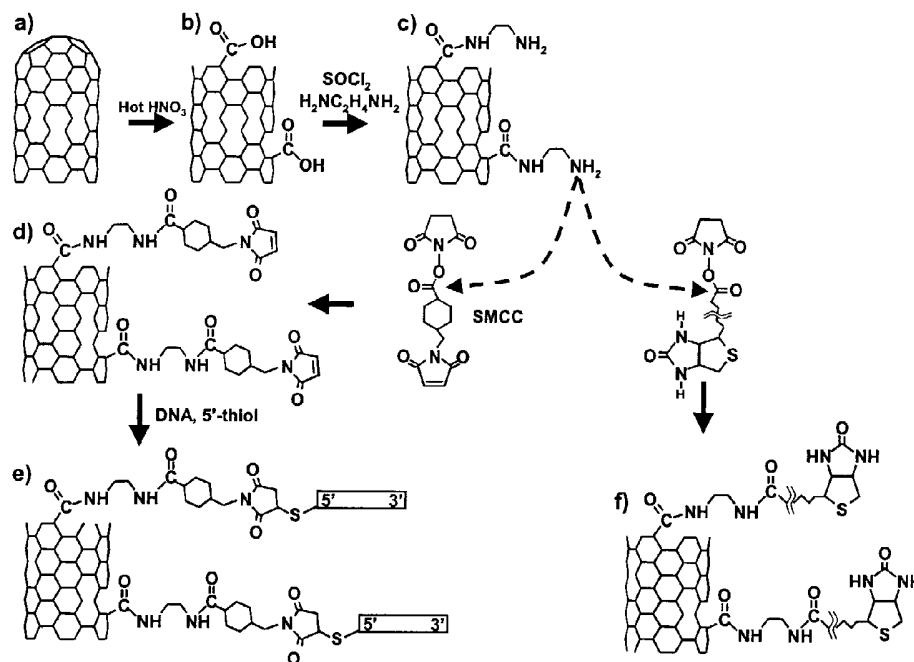
(75) Inventors/Applicants (for US only): **HAMERS, Robert
J.** [US/US]; 221 Shiloh Drive, Madison, WI 53705 (US).
BAKER, Sarah [US/US]; 1105 Emerald Street, Madison,

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[Continued on next page]

(54) Title: NANOCYLINDER-MODIFIED SURFACES



(57) Abstract: This invention provides surfaces having nanocylinders, such as carbon nanotubes, attached thereto through biomolecular interactions, devices made from assemblies of nanocylinder-modified surfaces, and methods for producing nanocylinder modified surfaces. A variety of biomolecular interactions may be used to attach the nanocylinders to the surfaces, including hybridization of complementary oligonucleotide sequences and receptor-ligand interactions.



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B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 435/6,7,1,287.2,285.2; 436/501,518,524,525,145; 422/50,82.01,82.02,82.03, Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched 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 --- Y	WO 02/054052 (FISH, LEONARD) 11 July 2002 (11.07.2004), see entire document.	1-3,5-11,13,14,16- 23,25-33 ----- 4,12,15,24
A	US 2003/0134267 (KANG et al) 17 July 2003 (17.07.2003), see entire document.	1-33
A	US 2004/0200734 (CO et al) 14 October 2004 (14.10.2004), see entire document.	1-33
X --- Y	US 6,362,011 (MASSEY et al) 26 March 2002 (26.03.2002), see entire document.	1-9 ----- 10-33
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Continuation of B. FIELDS SEARCHED Item 3:

MEDLINE, CHEMICAL ABSTRACTS

search terms: biomolecule, nanotube, nanocylinder, nanorod, functionalize, immobilize, attach, electrode