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(54) Title: NANOPARTICLE COMPOSITIONS FOR CONTROLLED DELIVERY OF NUCLEIC ACIDS

(57) Abstract: Micro- and nano-particles are molded in micro- and nano-scale molds fabricated from non-wetting, low surface energy polymeric materials. The micro- and nano-particles can include pharmaceutical compositions, biologic drugs, drug compositions, organic materials, RNA, DNA, oligonucleotides, and the like.



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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/21680

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC: <b>A61K 9/50( 2006.01)</b>  USPC: 424/497,9.322;536/23. 1 According to International Patent Classification (IPC) or to both national classification and IPC														
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 4247497,9.322;536/23. 1  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) MEDLINE ,BIOSIS ,CAPLUS ,EMBASE ,US-PGPUB ,USPAT ,USOCR ,DERWENT ,EPO ,JPO														
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b> <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td><b>X</b></td> <td>US 6,814,980 B2 (LEVY et al) 09 November 2004 (09.11.2004), entire document, particular, column 9, lines 1-56; col. 12, lines 40-67.</td> <td>1-7,9-16,18,19,34-36,41,42</td> </tr> <tr> <td><b>X</b></td> <td>ROLLAND et al. Direct Fabrication and Harvesting of Monodisperse, Shape-Specific Nanobiomaterials. J. AM. CHEM. SOC. 2005, Vol. 127, pages 10096-10100, particular, page 10097, column 1.</td> <td>1, 8, 11, 17, 20-33,37-40</td> </tr> <tr> <td><b>A</b></td> <td>US 6,630, 156 B 1 (SEO et al.) 07 October 2003 (07.10.2003), columns 1 and 2.</td> <td>1-42</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	<b>X</b>	US 6,814,980 B2 (LEVY et al) 09 November 2004 (09.11.2004), entire document, particular, column 9, lines 1-56; col. 12, lines 40-67.	1-7,9-16,18,19,34-36,41,42	<b>X</b>	ROLLAND et al. Direct Fabrication and Harvesting of Monodisperse, Shape-Specific Nanobiomaterials. J. AM. CHEM. SOC. 2005, Vol. 127, pages 10096-10100, particular, page 10097, column 1.	1, 8, 11, 17, 20-33,37-40	<b>A</b>	US 6,630, 156 B 1 (SEO et al.) 07 October 2003 (07.10.2003), columns 1 and 2.	1-42
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Date of the actual completion of the international search 03 July 2008 (03.07.2008)		Date of mailing of the international search report <b>05 Aug 2008</b>												
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-1085		Authorized officer Maria Leavitt <i>[Signature]</i> Telephone No. 571-272-1085												