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**Declaration under Rule 4.17:**  
— of inventorship (Rule 4.17(iv))

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(54) Title: THERMOSET NANOCOMPOSITE PARTICLES, PROCESSING FOR THEIR PRODUCTION, AND THEIR USE IN OIL AND NATURAL GAS DRILLING APPLICATIONS

(57) Abstract: The present invention relates to the development of nanocomposite particles, and the use of such particles in construction or treatment of oil and natural gas wells.



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**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/US05/47602

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC: **B32B 5/16( 2006.01);C09K 8/60( 2006.01),8/62( 2006.01),8/80( 2006.01);E21B 43/04( 2006.01),43/26( 2006.01)**  
  
 USPC: 428/407;507/219,221,225,225,231,906,924,926;166/278, 280.2,308.2  
 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. : 428/407; 507/219,221,225,225,231,906,924,926;166/278, 280.2,308.2  
  
 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	US 2002/0106513 A1 (MATYJASZEWSKI et al) 08 August 2002 (08.08.2002), see paragraphs 0048, 0071, 0154 and 0156.	1-3,8-13 ----- 7, 26, 29-31, 33, 35, 38, 39, 41-43, 46-53, 57- 61, 66, 71

Further documents are listed in the continuation of Box C.  See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

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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) 273-3201	Authorized officer Philip C. Tucker DEBORAH A. THOMAS PARALEGAL SPECIALIST Telephone No. 571-272-1700 <i>Pat</i>

**INTERNATIONAL SEARCH REPORT**

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Continuation of B. FIELDS SEARCHED Item 3:

EAST

search terms: nanocomposite, nanofiller, cross-link, subterranean, wellbore, cement, gravel packing, fracturing fluid