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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/69744

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC(8) - B01D 46/00 (2007.10); B01D 29/11 (2007.10)  
 USPC - 442/389, 96/11  
 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)  
 USPC - 442/389, 96/11

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 USPC - 442/327, 442/381, 442/383, 442/384; IPC(8) - B01D 35/01, B32B 5/26

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 GOOGLE PATENT, GOOGLE WEB and WEST (PGPB,USPT,EPAB,JPAB): filter, filter media, modacrylic, polyimides, polyphenylene sulfide, fire, flame, flame resistant, non-woven, nonwoven, amorphous silica, silica, amorphous silica fabric, fiberglass, needle-punched, baghouse, scrim, propex, wire cage, Mullen Burst

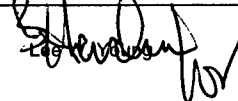
**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---	US 2004/0142620 A1 (Kinsley, JR.) 22 July 2004 (22.07.2004), para [0003]; para [0017]; para [0023]; para [0027]; para [0048].	1, 4, 6 -----
Y		2, 3, 5, 7 and 8-20
Y	Q-Fiber Product Brochure [online]. Johns Manville, November 2002 [retrieved on October, 15, 2007]. Retrieved from the Internet: <URL http://www.jm.com/insulation/performance_materials/products/hpl26_qfiber_amorphous.pdf>, pages 1 to 2.	2, 3, 7, 8 and 11-17
Y	US 2006/0008643 A1 (Lin et al.) 12 January 2006 (12.01.2006), para [0230].	5 and 9
Y	Heat Shield Data Sheet [online]. AFFCO, 2001 [retrieved on October 15, 2007]. Retrieved from the Internet: <URL:http://www.affco.com/heatshield.html>, page 1.	5 and 10-20
Y	US 4,536,439 A (Forsten) 20 August 1985 (20.08.1985), col. 1, ln 26-54.	19-20
A	US 2003/0084788 A1 (Frasier, JR.) 08 May 2003 (08.05.2003), para [0068].	14

Further documents are listed in the continuation of Box C.

* 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 but 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	

Date of the actual completion of the international search 15 October 2006 (15.10.2006)	Date of mailing of the international search report <b>06 DEC 2007</b>
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