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(54) Title: INSULATED PANEL FOR MINE SAFE ROOMS

(57) Abstract: A structural insulated panel (10) for use in a mine safe room, which includes a carbon foam core (12) having a high ratio of compressive strength to density, desirable fire retardant properties, and resistance to environmental stress. The carbon foam structural insulated panel also includes a first layer (14) and a second layer (16) bound to a first surface and second surface of the carbon foam core.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/63939

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **B32B 9/00**(2006.01)

USPC: 428/408

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. : 428/408

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)

JPO, EPO, USPGPUB

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 2003/0071384 (ROGERS) 17 April 2003 (17.04.2003), whole document	1-7 and 9 ----- 8 and 10-18
X --- Y	US 5,173,515 (von Bonin et al) 22 December 1992 (22.12.1992), whole document	1-7 and 9 ----- 8 and 10-18
X --- Y	US 2002/0038864 (HIROHATA) 4 April 2002 (04.04.2002), whole document	1 and 3-4 ----- 8
Y	US 6,482,520 (TZENG) 19 November 2002 (19.11.2002), whole document	8 and 17



Further documents are listed in the continuation of Box C.



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"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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"O" document referring to an oral disclosure, use, exhibition or other means		
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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.
Y	US 4,874,648 (HILL) 17 October 1989 (17.10.1989), whole document	8 and 17