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(54) Title: FIRE-RESISTANT POLYURETHANE MATERIAL AND FIRE-RESISTANT STRUCTURE

(57) Abstract: The invention relates to a fire-resistant polyurethane material comprising a foamed polyurethane main body, a fire-resistant inorganic powder and a hollow structure. The density of the hollow structure is lower than about 0.1 g/cm and the material of the hollow structure is selected from the group consisting of polymer, glass and ceramic. The fire-resistant polyurethane material according to the invention has excellent fire-resistant effects. The invention also provides a fire-resistant structure.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2013/048520

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - C09K 21/06 (2013.01)
USPC - 521/906
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)
IPC(8) - C08J 9/00; C08L 75/04; C09K 21/00, 21/06; E04B 1/94 (2013.01)
USPC - 428/304.4, 317.9; 521/50, 906

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - C08J 9/00; C08L 75/04; C09K 21/00, 21/06; E04B 1/94 (2013.01)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Orbit, Google Patents, Google Scholar

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,603,078 A (ZANKER et al) 29 July 1986 (29.07.1986) entire document	1-10
Y	US 2006/0051543 A1 (IMANARI et al) 09 March 2006 (09.03.2006) entire document	1-10
A	US 4,575,520 A (KAPPS et al) 11 March 1986 (11.03.1986) entire document	1-10
A	US 3,625,872 A (ASHIDA) 07 December 1971 (07.12.1971) entire document	1-10

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"A" document defining the general state of the art which is not considered to be of particular relevance
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"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
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