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(54) Title: FIBROUS ALUMINUM TITANATE SUBSTRATES AND METHODS OF FORMING THE SAME

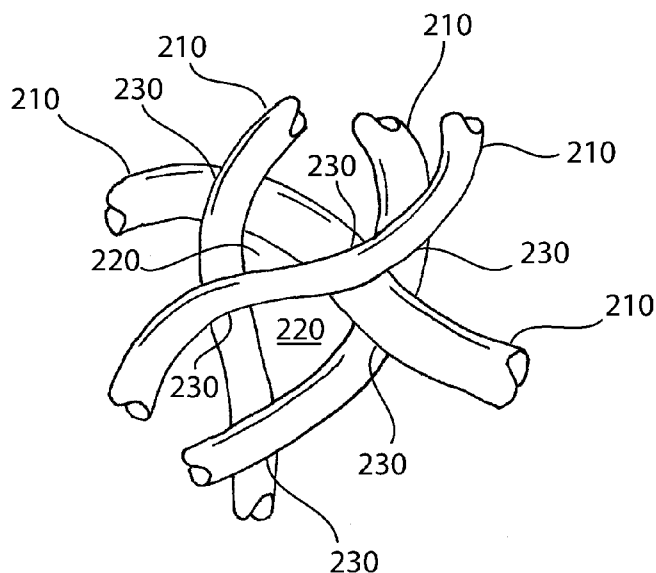


FIG. 2

(57) Abstract: A porous fibrous honeycomb substrate having an aluminum titanate composition and methods of producing the same are provided herein. Precursors of aluminum titanate are provided in an extrudable mixture that includes fiber materials to form a green honeycomb substrate. When cured, the precursors of aluminum titanate form an aluminum titanate composition, with the fiber materials defining the porous microstructure. Various composite structures including aluminum titanate are provided to form a porous honeycomb substrate that can be configured to be filtration media and/or a catalytic host.

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- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/062276**A. CLASSIFICATION OF SUBJECT MATTER*****B01D 35/06(2006.01)i, B01J 35/04(2006.01)i, B01J 29/89(2006.01)i, F01N 3/022(2006.01)i***

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)

B01D 35/06; B01D 24/00; B01D 39/20; B01D 46/00; B01D 53/84; B23B 3/12; C04B 35/00; C04B 35/478

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

(Chinese Patents and application for patent)

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

eKOMPASS(KIPO internal) & Keywords: honeycomb, porous ceramic, intertangle, aluminum tintate, fiber, strontium oxide,

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 2008-0010960 A1 (ROBERT JOHN PAISLEY et al.) 17 January 2008 See pages 1-2, claims 21-24.	1-4, 19-22 5-10
X Y	US 2005-0091952 A1 (STEVEN OGUNWUMI et al.) 05 May 2005 See abstract, pages 1-2.	11-18 5-10
A	US 2004-0092381 A1 (GEORGE H. BEALL et al.) 13 May 2004 See abstract, claims 1-3, 7-9	1-22
A	US 2008-0179782 A1 (LIU JAMES JENQ et al.) 31 July 2008 See abstract, claims 1, 2 and 10.	1-22
A	KR 10-0804933 B1 (IBIDEN CO., LTD.) 20 February 2008 See pages 6-7	1-22

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

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2009/062276

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