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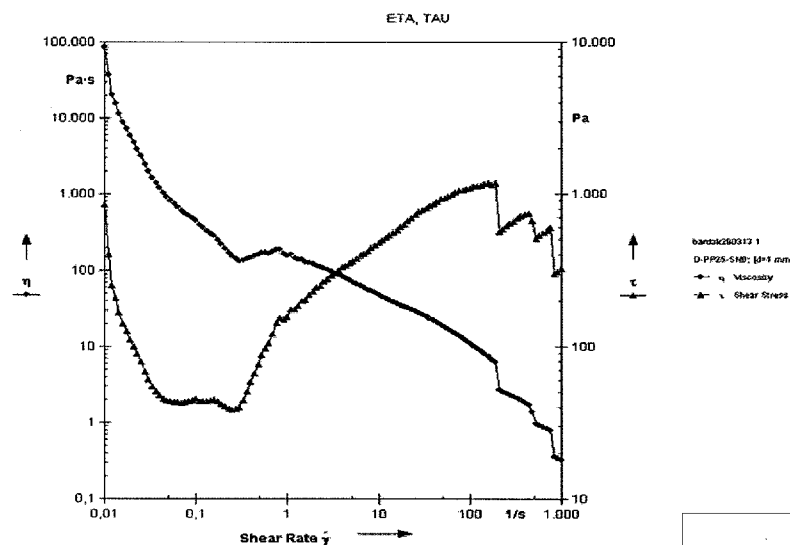


Fig. 3

(57) Abstract: The present invention relates to a formulation applied in order to keep powder ceramics added to non-Newtonian fluids with shock absorption property stable and to improve their shock absorption property and a material thus obtained. The aim of the invention is to ensure long term-use and industrial utilisation of the material obtained by keeping powder particles contained in non-Newtonian mixtures with shock absorption property prepared by using various carbides and boron nitride stable within the fluid.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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ADD.

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)
C04B

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)

EPO-Internal, WPI Data, COMPENDEX, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2012/018598 A1 (WATERS TECHNOLOGIES CORP [US]; WYNDHAM KEVIN D [US]; MURIITHI BEATRICE) 9 February 2012 (2012-02-09) examples 1, 10, 14,26,61 abstract claim 78 page 46, lines 17-20	1-4,7,8
X	US 2002/192476 A1 (KAMBE NOBUYUKI [US] ET AL) 19 December 2002 (2002-12-19) claims 1,2,11,12 paragraphs [0119], [0233] examples 3-5 paragraphs [0105], [0117], [0205] ----- -/--	1-4,6-9

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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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.
X	JP 2009 280547 A (UNIV GUNMA; SUMITOMO OSAKA CEMENT CO LTD) 3 December 2009 (2009-12-03) claims 1,4 paragraphs [0025], [0043], [0046], [0050] - [0053] -----	1-6,8
A	CN 101 745 495 B (CHINESE ACAD TECH INST PHYSICS) 25 April 2012 (2012-04-25) abstract -----	1-9
A	ELISSA H WILLIAMS ET AL: "Immobilization of streptavidin on 4HSiC for biosensor development", APPLIED SURFACE SCIENCE, ELSEVIER, AMSTERDAM, NL, vol. 258, no. 16, 25 February 2012 (2012-02-25), pages 6056-6063, XP028406086, ISSN: 0169-4332, DOI: 10.1016/J.APSUSC.2012.02.137 [retrieved on 2012-03-05] Material and methods; page 6057 -----	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2012018598	A1	09-02-2012	EP 2598440 A2 05-06-2013
			EP 2598441 A1 05-06-2013
			JP 2013535544 A 12-09-2013
			JP 2013539016 A 17-10-2013
			US 2013112605 A1 09-05-2013
			US 2013206665 A1 15-08-2013
			WO 2012018596 A2 09-02-2012
			WO 2012018598 A1 09-02-2012
US 2002192476	A1	19-12-2002	CA 2435880 A1 01-08-2002
			CN 1503728 A 09-06-2004
			EP 1383646 A1 28-01-2004
			EP 2366736 A1 21-09-2011
			JP 4646490 B2 09-03-2011
			JP 5189068 B2 24-04-2013
			JP 2004524396 A 12-08-2004
			JP 2010100061 A 06-05-2010
			KR 20030077592 A 01-10-2003
			US 2002192476 A1 19-12-2002
			US 2003207129 A1 06-11-2003
			US 2005170192 A1 04-08-2005
			US 2010314588 A1 16-12-2010
			US 2013012636 A1 10-01-2013
			WO 02058928 A1 01-08-2002
JP 2009280547	A	03-12-2009	NONE
CN 101745495	B	25-04-2012	NONE