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(54) **Title:** ANTIMICROBIAL SOLID AND METHODS OF MAKING AND USING SAME

(57) **Abstract:** A solid material adapted to kill bacteria in planktonic, spore and biofilm states is lethal toward a wide spectrum of gram positive and gram negative bacteria as well as other microbes. The solid material includes a significant amount of one or more surfactants entrained in a crosslinked polymeric network.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/037320**A. CLASSIFICATION OF SUBJECT MATTER****A01N 25/30(2006.01)i, A01P 1/00(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)

A01N 25/30; A01N 25/02; A01N 25/04; C11D 3/48

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

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

eKOMPASS(KIPO internal) & Keywords: antimicrobial, solid

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2010-0086576 A1 (MYNTTI MATTHEW F.) 08 April 2010 See abstract; paragraphs [0008]-[0017], [0035]-[0039], [0042]-[0065].	1-10
A	JP 2009-137861 A (SUMITOMO CHEMICAL CO., LTD.) 25 June 2009 See abstract; paragraphs [0005]-[0013], [0019]-[0028]; whole claims.	1-10
A	US 05348678 A (HODAM, JR.; ROBERT H. et al.) 20 September 1994 See abstract; columns 1-4, 8-9.	1-10
A	US 05543383 A (PARKER; BRIAN A. et al.) 06 August 1996 See abstract; columns 1-4; whole claims.	1-10

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

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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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"P" document published prior to the international filing date but later than the priority date claimed

"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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"&" document member of the same patent family

Date of the actual completion of the international search

28 NOVEMBER 2012 (28.11.2012)

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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
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JP 2009-137861 A	25.06.2009	None	
US 05348678 A	20.09.1994	US 05326492 A WO 93-10209 A1	05.07.1994 27.05.1993
US 05543383 A	06.08.1996	AU 1997-36698 B2 CN 1171720 A0 CN 1242689 A0 EP 0800342 A1 EP 0918457 A1 JP 11-502190 A JP 2002-511050 A KR 10-1998-0700803 A KR 10-2000-0029836 A TW 445132 A TW 445132 B US 05843866 A WO 96-20593 A1 WO 98-05205 A1	20.07.2000 28.01.1998 26.01.2000 16.10.2002 03.09.2003 23.02.1999 09.04.2002 30.04.1998 25.05.2000 11.07.2001 11.07.2001 01.12.1998 11.07.1996 12.02.1998