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(54) Title: DISINFECTANT ALCOHOL-SOLUBLE QUATERNARY AMMONIUM POLYMERS

(57) Abstract: An alcohol- or glycol-soluble, water-insoluble, disinfectant composition and a method of using the same for disinfecting and for providing a prolonged antimicrobial property to a variety of surfaces, including skin. The composition comprises (1) at least one glycol or a mixture of at least one glycol and an alcohol and (2) an antimicrobial polymer that is capable of imparting an antimicrobial property to a surface without the use of a metal or a metal-containing compound. The composition is applied to a surface and allowed to evaporate leaving a coating of antimicrobial polymer on the substrate. Alternatively, the composition is incorporated into or within the substrate.



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INTERNATIONAL SEARCH REPORT

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PCT/US2009/030437**A. CLASSIFICATION OF SUBJECT MATTER***C08K 5/05(2006.01)i, C08K 5/15(2006.01)i, C08L 75/04(2006.01)i, C08G 18/28(2006.01)i, C08G 18/16(2006.01)i, C08K 5/00(2006.01)i, C08J 5/00(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)

IPC A01N, C08K, C08L, C08G, C08J a

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 since 1975
Japanese Utility models and applications for Utility models since 1975

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

eKOMPASS(KIPO internal), Google scholar

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	WO 2007/024973 A1 (QUICK-MED TECHNOLOGIES, INC.) 1 March 2007 See page 9, lines 1-4, page 17, lines 12-27; Claims 1-6, 8, 10, 12, 16-31, 34 and 35.	1-48 49-52
A	WO 2006/097758 A1 (GUY ALLEN LTD.) 21 September 2006 See pages 3-7.	1-32
A	JP 2006-213708 A (Air Liquide Sante International) 17 August 2006 See claim 4.	1
A	US 2006/0051385 A1 (Matthew T.Scholz) 09 March 2006 See [0162] and [0202]	28, 29, 50
A	US 4789720 A (John M. Teffenhart) 06 December 1988 See columns 2 and 4	1, 50
A	US 5084096 A (Pavel Stovicek) 28 January 1992 See examples 9 and 10	1

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

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"&" document member of the same patent family

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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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