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(54) Title: ANTI-MICROBIAL COMPOSITIONS

(57) Abstract: Cosmetic and/or toiletry formulations having novel preservative blends including isothiazolinone and vicinal diols which are liquid at room temperature. The formulations provide antimicrobial properties including unexpectedly enhanced antifungal properties.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/04325

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC: **A61Q 5/12( 2006.01)**

USPC: 424/70.12,70.27

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)  
U.S. : 424/70.12, 70.27

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)  
Please See Continuation Sheet

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P	US 2006/0210500 A1 (BICARD-BENHAMOU et al) 21 September 2006 (21.09.06) see [0049] title, abstract, claims, examples and entire document.	1, 4-5,6-7, 17-19
X	US 20050202998 A1 (WAHL et al) 15 September 2005 (15.09.2005), see Example IV, [0301-0316] title, abstract, claims and entire document.	1-3,6-7,8-13,15-17,20
X	US 6,338,855 B1 (ALBACARYS et al) 15 January 2002 (15.01.2002), see column 17, lines 14-column 67, column 10, line 3 "hexanediol", line 13 "1,2,pentandiol, ", Kathon aka methylisothiazolinone line 12, column 27, lines 19-64 "glycerol monoesters", skin care emulsions, column 28, lines 14 and 15 "PEG" glycol copolymers, claims 15-24, and entire document.	1-4, 6-7, 12-14

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	"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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"O" document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 18 July 2008 (18.07.2008)	Date of mailing of the international search report <b>08 AUG 2008</b>
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer GINNY PORTNER Telephone No. (571)272-0507

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International application No.  
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Continuation of B. FIELDS SEARCHED Item 3:  
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search terms: blend, antimicrobial, vicinal diol, glyceryl monoester or monoether, methylisothiazolinone, paraben free