

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 December 2007 (13.12.2007)

PCT

(10) International Publication Number
WO 2007/142967 A3

(51) International Patent Classification:

AOIN 37/36 (2006.01) AOIP 1/00 (2006.01)
AOIN 37/40 (2006.01) A61K 31/60 (2006.01)
AOIN 37/04 (2006.01) A61K 31/194 (2006.01)
AOIN 31/02 (2006.01) A61K 31/191 (2006.01)
AOIN 47/36 (2006.01) A61K 31/19 (2006.01)
AOIN 37/02 (2006.01) A61K 31/045 (2006.01)
AOIN 35/02 (2006.01)

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG,
ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK,
LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW,
MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL,
PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA,
ZM, ZW

(21) International Application Number:

PCT/US2007/012735

(22) International Filing Date: 30 May 2007 (30.05.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/809,495 31 May 2006 (31.05.2006) US
60/811,354 6 June 2006 (06.06.2006) US

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Published:

— with international search report
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:

4 September 2008

(54) Title: ALCOHOL-CONTAINING ANTIMICROBIAL COMPOSITIONS HAVING IMPROVED EFFICACY

(57) Abstract: Antimicrobial compositions having a rapid antiviral and antibacterial Effectiveness, and a persistent antiviral ef-
fectiveness, are disclosed. The antimicrobial compositions contain (a) a disinfecting alcohol, (b) a blend containing a C₁₂ to C₂₂
alcohol and an ethoxylated C₁₂ to C₂₂ alcohol, such as a cetearyl alcohol and cetereth-20 blend, a cetearyl alcohol, steareth-20, and
steareth-10 blend, or a mixture thereof, (c) an optional organic acid and (c) water.



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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/012735

A. CLASSIFICATION OF SUBJECT MATTER

INV. A01N37/36 A01N37/40 A01N37/04 A01N31/02 A01N47/36
A01N37/02 A01N35/02 A01P1/0.0 A61K31/60 A61K31/194
A61K31/191 A61K31/19 A61K31/045

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)
AOIN

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 practical, search terms used)

EPO-Internal , WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 251 303 A (KRUEGER GMBH & CO KG [DE]) 7 January 1988 (1988-01-07) abstract column 1, line 1 - line 6 column 2, line 32 - line 37 examples 1-6 -----	1-6, 9-59, 64-68
X	US 6 034 133 A (HENDLEY J OWEN [US] ET AL) 7 March 2000 (2000-03-07) column 2, line 38 - line 47 column 2, line 59 - line 71 table 1 column 4, line 30 - line 34 column 4, line 39 - line 46 ----- -/--	1-6, 9-59, 64-68

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

☒ See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"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

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the International search

12 June 2008

Date of mailing of the international search report

02/07/2008

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2007/012735

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	wo 2005/067878 A (VANSON HALOSOURCE INC [US] ; NICHOLS EVERETT J [US] ; SCOTT JAMES R [US]) 28 July 2005 (2005-07-28) abstract page 3, line 10 - line 19 examples	1-6, 9-59, 64-68
X	wo 96/29867 A (GUTHERY B EUGENE [US]) 3 October 1996 (1996-10-03) abstract page 16, line 4 examples	1-6, 9-59, 64-68
X	wo 01/41573 A (ETHICON INC [US]; JAMPANI HANUMAN [US]; ELLIS TIMOTHY [US] ; NEWMAN JER) 14 June 2001 (2001-06-14) example 3	1-6, 9-59, 64-68
X	GB 2 187 097 A (UNILEVER PLC UNILEVER PLC [GB]) 3 September 1987 (1987-09-03) abstract examples 1-3	1-6, 9-59, 64-68
A	FR 1 568 905 A (HENKEL) 30 May 1969 (1969-05-30) page 1, column 1, paragraph 4 - column 2, paragraph 2 page 2, column 1, paragraph 2	1-6, 9-59, 64-68
A	EP 0 208 403 A (DIVERSEY CORP [CA]) 14 January 1987 (1987-01-14) page 1, line 28 - page 2, line 19	1-6, 9-59, 64-68

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/0 12735

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 1-6 (part), 7-8 (ful I), 10-59(part), 60-63 (ful I)
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claim's Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCTASA/ 210

Continuation of Box II.1

Claims Nos.: 1-6 (part), 7-8 (full), 10-59(part), 60-63(full)

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy.

Claims 1-8 and 10-63 encompass methods of reducing bacteria and virus populations on human or animals, e.g. on mammal skin. These methods are considered to be methods for treatment of the human or animal body by therapy. According to Rule 39.1(iv) PCT such methods need not be searched. Therefore, the scope of the search has been restricted to the compositions disclosed in the methods claims and to methods of reducing bacteria and virus populations on inanimate or plant surfaces. In other words, the subject-matter of claims 1-6 and 10-59 has been partly searched and the subject-matter of claims 7, 8, and 60-63 has been excluded from the search.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/012735

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