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21 December 2006

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(54) Title: COMPOSITIONS HAVING A HIGH ANTIVIRAL AND ANTIBACTERIAL EFFICACY

(57) Abstract: Antimicrobial compositions having a rapid and persistent antiviral and antibacterial effectiveness are disclosed. The antimicrobial compositions contain (a) a divalent zinc salt, (b) an optional disinfecting alcohol, (c) an optional antimicrobial agent, and (d) an optional organic acid, wherein the composition has a pH of about 5 or less.

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2005/043765

A. CLASSIFICATION OF SUBJECT MATTER

INV. A01N59/16
ADD. A01N31/02 A01N31/16 A01N37/04 A01N25/30

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

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	WO 00/43047 A (STERICON, L.L.C) 27 July 2000 (2000-07-27) page 1, line 4 - line 8 page 1, line 26 - line 30 page 2, line 6 - line 10 page 2, line 19 - line 27 page 3, line 5 - line 10 page 5, line 2 - line 5	1, 2, 5, 6, 9-11, 29, 32-37, 39-43, 51-55, 57, 59, 62, 68
Y	claims 1-3, 5, 14, 21, 22, 26, 28 ----- -/--	1-68

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
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- "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

28 September 2006

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2005/043765

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>ZA 200 308 879 A (HUGH ASHLEY BRATHWAITE) 19 May 2004 (2004-05-19)</p> <p>page 2, paragraphs 1,3-6 page 3, paragraphs 8,9 page 4, lines 7-12,22</p>	<p>1,2,4,6, 7,9-11, 16, 27-31, 42,43, 51-56, 59,62, 63,67,68</p>
Y	<p>WO 93/16597 A (HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN) 2 September 1993 (1993-09-02)</p> <p>page 1, paragraphs 1,4,5 page 2, paragraphs 3,4 page 3, lines 2-5 page 3, line 13 - line 29 page 4, paragraph 2 - page 5, paragraph 1</p>	1-68
Y	<p>WO 01/28340 A (THE PROCTER & GAMBLE COMPANY) 26 April 2001 (2001-04-26)</p> <p>page 1, line 4 - line 7 page 1, line 17 - line 31 page 2, line 12 - line 23 page 3, line 4 - line 20 page 3, line 31 - page 4, line 10 page 5, line 7 - line 10 page 5, line 28 - page 6, line 1 page 6, line 29 - line 32 page 7, line 27 - page 8, line 2 page 8, line 17 - page 9, line 20 page 19, line 29 - page 22, line 9 page 22, line 23 - page 29, line 10 page 38, line 14 - page 40, line 9 page 49, line 27 - line 36</p>	1-68
Y	<p>WO 01/28339 A (THE PROCTER & GAMBLE COMPANY) 26 April 2001 (2001-04-26)</p> <p>page 3, line 9 - line 19 page 5, line 34 - page 7, line 31</p>	1-68
X	<p>US 2004/086575 A1 (SMITH JEFFREY B) 6 May 2004 (2004-05-06)</p> <p>paragraphs [0001], [0014], [0016], [0019] - [0021], [0024], [0050], [0085], [0104], [0106]</p> <p style="text-align: center;">-/--</p>	<p>1,4,6, 9-14,42, 43, 51-56, 59,62,68</p>

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2005/043765

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 98/44792 A (HENKEL-ECOLAB GMBH & CO. OHG; VON RHEINBABEN, FRIEDRICH; BANSEMIR, KLA) 15 October 1998 (1998-10-15) page 1, paragraph 1 page 3, paragraph 1 - page 5, paragraph 3 page 7, paragraph 1 - page 8, paragraph 4 page 12; example 12 -----	1-3,5,6, 9-14,42, 43, 51-55, 57-62,68
P,X	WO 2005/074947 A (CHEN, ANDREW, XIAN) 18 August 2005 (2005-08-18) page 17 - page 20 -----	1-68

INTERNATIONAL SEARCH REPORT

International application No.
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Box 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.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 62-67 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
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. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box 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 all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
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.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2005/043765

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