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(54) Title: COMPOSITIONS USEFUL FOR THE TREATMENT OF MICROBIAL INFECTIONS

(57) Abstract: The present invention is based on the discovery that certain chemical compounds isolated from Chinese medicinal herbs are useful as anti-microbial agents, e.g., antibacterial agents, anti-fungal agents, and the like. In particular, the present invention provides compositions useful for treating microbial infections such as, for example, oral microbial infections, including periodontal disease and dental caries.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/06761

<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61K007/48; A61K 35/78; A61K 31/60 US CL : 514/900; 424/777 According to International Patent Classification (IPC) or to both national classification and IPC</p>																													
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) U.S. : 514/900; 424/777</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN</p>																													
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>US 6,346,267 B1 (FRY et al) 12 February 2002 (12.01.2002), column 4, line 65, column 5, lines 25-31; column 6, TABLE 1; column 7, claims 7, 8.</td> <td>1, 6, 9-10, 14-27</td> </tr> <tr> <td>X</td> <td>JP 2000-198724 (POLA CHEM IND INC.) 18 July 2000, (18.07.2000), see abstract.</td> <td>9, 15, 17, 19, 24-27</td> </tr> <tr> <td>A</td> <td>CN 1415301 (CAI H) 7 May 2003 (07.05.2003), see abstract.</td> <td>28-44</td> </tr> <tr> <td>A</td> <td>US 2003/0211185 A1 (ALEXIS) 13 November 2003 (13.11.2003), see abstract, page 6, claim 1; page 1, paragraph [0009].</td> <td></td> </tr> <tr> <td>X</td> <td>US 2002/0102316 A1 (WEISSMAN) 1 August 2002 (01.08.2002), See page 4, paragraphs, [0038], [0046].</td> <td>1, 4, 9-10, 13-14</td> </tr> <tr> <td>Y</td> <td>WO 2004/028519 A1 (MANDOM CORPORATION) 08 April 2004 (08.04.2004), see abstract.</td> <td>9, 15, 17, 19, 24-27, 28-44</td> </tr> <tr> <td>---</td> <td></td> <td></td> </tr> <tr> <td>P</td> <td></td> <td></td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	US 6,346,267 B1 (FRY et al) 12 February 2002 (12.01.2002), column 4, line 65, column 5, lines 25-31; column 6, TABLE 1; column 7, claims 7, 8.	1, 6, 9-10, 14-27	X	JP 2000-198724 (POLA CHEM IND INC.) 18 July 2000, (18.07.2000), see abstract.	9, 15, 17, 19, 24-27	A	CN 1415301 (CAI H) 7 May 2003 (07.05.2003), see abstract.	28-44	A	US 2003/0211185 A1 (ALEXIS) 13 November 2003 (13.11.2003), see abstract, page 6, claim 1; page 1, paragraph [0009].		X	US 2002/0102316 A1 (WEISSMAN) 1 August 2002 (01.08.2002), See page 4, paragraphs, [0038], [0046].	1, 4, 9-10, 13-14	Y	WO 2004/028519 A1 (MANDOM CORPORATION) 08 April 2004 (08.04.2004), see abstract.	9, 15, 17, 19, 24-27, 28-44	---			P		
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<p>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. (703) 305-3230</p>		<p>Authorized officer Sreeni Padmanabhan Telephone No. 571-272-0600</p>																											