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(71) Applicants (for all designated States except US): **MERCK & CO., INC.** [US/US]; P.O. Box 2000, Rahway, NJ 07065 (US). **KYORIN PHARMACEUTICAL CO., LTD.** [JP/JP]; 5, Kanda Surugadai 2-chome, Chiyoda-ku, Tokyo (JP).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **FUKUDA, Yasumichi** [JP/JP]; 33-2, Utsukusigaoka 3-chome, Oyama, Tochigi 329-0207 (JP).

(74) Agents: **TOFFENETTI, Judith, L.** et al.; McDermott, Will & Emery LLP, 600 13th Street, N.W., Washington, DC 20005-3096 (US).

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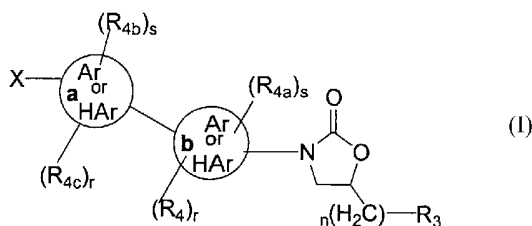
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CYCLOPROPYL GROUP SUBSTITUTED OXAZOLIDINONE ANTIBIOTICS AND DERIVATIVES THEREOF



(1)

(57) Abstract: This invention relates to new oxazolidinones having a cyclopropyl moiety, which are effective against aerobic and anerobic pathogens such as multi-resistant staphylococci, streptococci and enterococci, Bacteroides spp., Clostridia spp. species, as well as acid-fast organisms such as *Mycobacterium tuberculosis* and other mycobacterial species. The compounds are represented by structural formula: (I): its enantiomer, diastereomer, or pharmaceutically acceptable salt or ester thereof.

INTERNATIONAL SEARCH REPORT

Interr Application No
PCT/US2004/020734

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D413/14 C07D413/10 C07D487/08 C07D417/14 A61K31/422
A61P31/04

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 7 C07D A61K A61P

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.
E	US 2004/147760 A1 (THOMAS RICHARD CHARLES 'US! ET AL) 29 July 2004 (2004-07-29) examples 48-51,54-57,65,72,73 claim 70	1,2,7,8, 10-15
P.X	WO 2004/048350 A (ASTRAZENECA AB; ASTRAZENECA UK LIMITED; GRAVESTOCK, MICHAEL, BARRY; HA) 10 June 2004 (2004-06-10) page 78, line 24 - page 79; claim 1 example 8	1,2,7,8, 10-15
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in 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

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* & * document member of the same patent family

Date of the actual completion of the international search

9 February 2005

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21.02.05

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Kollmannsberger, M

INTERNATIONAL SEARCH REPORT

Inter Application No
PCT/US2004/020734

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 01/94342 A (DONG A PHARM CO LTD ; CHO JONG HWAN (KR); CHOI SUNG HAK (KR); LEE JAE) 13 December 2001 (2001-12-13) cited in the application claims examples 42,78,119,129,132,134,136,139,143,146,148 -----	1,2,7,8, 10-15
X	US 5 523 403 A (BARBACHYN ET AL) 4 June 1996 (1996-06-04) claim 1 column 46, line 1 - line 3 column 46, line 10 - line 12 -----	1,2,7,8, 10-15
X	WO 94/13649 A (THE UPJOHN COMPANY; BARBACHYN, MICHAEL, ROBERT) 23 June 1994 (1994-06-23) claim 1 page 64, line 20 - line 21 page 64, line 26 - line 27 -----	1,2,7,8, 10-15
A	WO 03/027083 A (KYORIN SEIYAKU KK ; FUKUDA YASUMICHI (JP); MERCK & CO INC (US); HAMMON) 3 April 2003 (2003-04-03) claims -----	1-15
A	EP 0 352 781 A (E.I. DU PONT DE NEMOURS AND COMPANY) 31 January 1990 (1990-01-31) cited in the application example 38 -----	1,2,7,8, 10-15
A	US 5 736 545 A (GADWOOD ET AL) 7 April 1998 (1998-04-07) column 1, line 43 - column 2, line 14 -----	1,2,7,8, 10-15

INTERNATIONAL SEARCH REPORT

onal application No.
PCT/US2004/020734

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 14 and 15 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:

see additional sheet

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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,2, 4-6,10-15 (all in part), 3,9

compounds according to structure (I) of claim 1 in which X
is a bicyclo[3.1.0]ring and their uses

2. claims: 1,2,4-6,10-15 (all in part); 7,8

compounds according to structure (I) of claim 1 in which X
is an N-bound heterocycle

INTERNATIONAL SEARCH REPORT

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