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EE	Estonia						

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 98/21327

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C07D243/24 A61K31/55

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 6 C07D

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 045 452 A (HOFFMANN LA ROCHE) 10 February 1982 see claims 1-13,15,16 ---	1-5,9, 13-15
X	BUNIN B.A. & ELLMAN J.A.: "A general and expedient method for the solid-phase synthesis of 1,4-benzodiazepine derivatives" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 114, no. 27, 1992, pages 10997-10998, XP002072683 cited in the application see the whole document ---	1-5
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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
- *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

11 February 1999

Date of mailing of the international search report

28. 05. 99

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 98/21327

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>JAMES G.L. ET AL.: "Benzodiazepine peptidomimetics: Potent inhibitors of Ras farnesylation in animal cells" SCIENCE, vol. 260, 25 June 1993, pages 1937-1942, XP002028520 see the whole document ---</p>	1-5,9, 13-15
X	<p>HOBBS DE WITT S. ET AL.: "'Diversomers": An approach to nonpeptide, nonoligomeric chemical diversity" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, vol. 90, no. 15, August 1993, pages 6909-6913, XP000651795 cited in the application see page 6910 - page 6913; table 1 ---</p>	1-5,9, 13-15
X	<p>WO 94 06291 A (THE REGENTS OF THE UNIVERSITY OF CALIFORNIA) 31 March 1994 see page 8 - page 40; claims 1-19 ---</p>	1-5
X	<p>BUNIN B.A. ET AL.: "The combinatorial synthesis and chemical and biological evaluation of a 1,4-benzodiazepine library" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, vol. 91, May 1994, pages 4708-4712, XP002092989 cited in the application see the whole document ---</p>	1-5,9, 13-15
X	<p>WO 95 25118 A (TRUSTEES OF TUFTS UNIVERSITY) 21 September 1995 see claims 1,10,14 ---</p>	1-5,9, 13-15
X	<p>WO 96 05827 A (MERCK & CO INC.) 29 February 1996 see the whole document ---</p>	1-5,9, 13-15
X	<p>BUNIN-B.A. ET AL.: "Synthesis and evaluation of 1,4-benzodiazepine libraries" METHODS IN ENZYMOLOGY, vol. 267, 1996, pages 448-465, XP002072681 cited in the application see the whole document -----</p>	1-15

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 98/21327

Box I Observations where certain claims were found unsearchable (Continuation of item 1 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.: 16-44
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
2. Claims Nos.: 1-5,9,13-15
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:
see FURTHER INFORMATION sheet PCT/ISA/210
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 II Observations where unity of invention is lacking (Continuation of item 2 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.:
1-5 (part), 6-8, 9 (part), 10-12, 13-15 (part)

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

Claims Nos.: 1-5,9,13-15

An ambiguity arises from the definition of radicals R1, R2, R3, X, Y and W in claims 1 and 9 which are defined with reference to tables in the description, contrary to Rule 6.2.(a) PCT and thus contravenes Article 6 PCT.

The definition of the compounds of formula (I) is too general and/or encompasses too broad a range of different chemical groups, only partly supported by examples given in the description. The vast number of theoretically conceivable compounds resulting from claims 1 and 9 drafted in such an ambiguous way precludes a comprehensive search. The search was performed on the basis of those claims which are clear and concise and in the light of the examples and reasonable generalisations thereof and includes compounds having therapeutical activities.

Despite the above limitation the search revealed too many relevant documents so that the search report shall not be considered complete, since the search had to be further limited to compounds of claims 6 to 8 and 10 to 12 and those of figure 3/7, cf. Articles 6 PCT, 15(4) PCT and Rule 33 PCT, and the PCT International Search Guidelines chapters III-3.6, III-3.7, VIII-2 and X-6.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

1. Claims: 1-5 (partially), 6-8, 9 (partially), 10-12, 13-15 (partially)

1,4-Benzodiazepin-2-one derivatives of formula (I) wherein R3 denotes an optionally X1-X5-substituted phenyl moiety, based on present example 1 the only preparation method of these compounds outlined in the present application which starts from aminobenzophenones, and pharmaceutical compositions comprising said compounds

2. Claims: 1-5, 9, 13-15 (all partially)

All other 1,4-benzodiazepin-2-one derivatives wherein R3 is other than an optionally substituted phenyl moiety, and the pharmaceutical compositions comprising said compounds

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 98/21327

Patent document cited in search report	A	Publication date	Patent family member(s)	Publication date
EP 0045452	A	10-02-1982	AU 7339781	04-02-1982
			CA 1157855	29-11-1983
			DK 341181	01-02-1982
			JP 57058674	08-04-1982
			PH 17045	17-05-1984
			US 4327026	27-04-1982
			ZA 8105115	25-08-1982

WO 9406291	A	31-03-1994	US 5288514	22-02-1994
			AU 4923193	12-04-1994
			US 5545568	13-08-1996

WO 9525118	A	21-09-1995	US 5580979	03-12-1996
			US 5776902	07-07-1998

WO 9605827	A	29-02-1996	AU 692916	18-06-1998
			AU 3330495	14-03-1996
			CA 2195973	29-02-1996
			EP 0776203	04-06-1997
			US 5633251	27-05-1997
