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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

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:
20 March 2008

(54) Title: 4-ARYLALKOXYMETHYL-4-PHENYL PIPERIDINES AND THEIR USE AS NEUROKININ RECEPTOR ANTAGONISTS FOR THE TREATMENT OF CNS DISORDERS

(57) Abstract: The invention encompasses compounds of Formula I, including pharmaceutically acceptable salts, their pharmaceutical compositions, and their use in treating CNS disorders.



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INTERNATIONAL SEARCH REPORT

International application No

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A. CLASSIFICATION OF SUBJECT MATTER

INV. C07D401/12 C07D401/14 C07D413/14 A61K31/4465 A61K31/4545
A61P25/00

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)
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)

EPO-Internal, 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	WO 2007/121389 A (SQUIBB BRISTOL MYERS CO [US]; DENHART DEREK J [US]; DEGNAN ANDREW P [U] 25 October 2007 (2007-10-25) claims 1-13	1-15
Y	WO 2004/022539 A (ASTRAZENECA AB [SE]; BERNSTEIN PETER [US]; CACCIOLA JOSEPH [US]; DEDIN) 18 March 2004 (2004-03-18) claims 1-11	1-15
Y	WO 2004/004722 A (SCHERING CORP [US]) 15 January 2004 (2004-01-15) claims 1-29	1-15
Y	WO 94/10165 A (MERCK SHARP & DOHME [GB]; HARRISON TIMOTHY [GB]; MACLEOD ANGUS MURRAY) 11 May 1994 (1994-05-11) claims 1-15	1-15
	----- -/-	



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.
- *G* document member of the same patent family

Date of the actual completion of the international search

15 January 2008

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INTERNATIONAL SEARCH REPORT

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	STEVENSON G I ET AL.: "4,4-disubstituted Piperidine High-Affinity NK1 Antagonists: Structure-Activity Relationships and in Vivo Activity" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, US, vol. 41, no. 23, 1998, pages 4623-4622, XP002173109 ISSN: 0022-2623 the whole document	1-15
A	----- GERSPACHER M: "SELECTIVE AND COMBINED NEUROKININ RECEPTOR ANTAGONISTS" PROGRESS IN MEDICINAL CHEMISTRY, ELSEVIER, AMSTERDAM, NL, vol. 43, 2005, pages 59-103, XP008065182 ISSN: 0079-6468 the whole document -----	1-15

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/074198

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.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 13-15 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 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 reportcovers 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.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/074198

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