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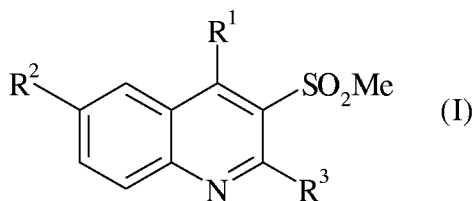
— with international search report

(88) Date of publication of the international search report:

12 April 2007

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: 3-METHANESULFONYLQUINOLINES AS GABA-B ENHANCERS



(57) Abstract: The present invention relates to compounds of formula (I) wherein R¹, R² and R³ are as defined hereinabove which are active at the GABA_B receptor and which can be used for the preparation of medicaments useful in the control or prevention of CNS disorders.



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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER

INV. C07C225/22 C07D265/22 C07D215/36 C07D215/38 C07D215/42
C07D401/04 A61K31/47 A61K31/4709

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)

C07C 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, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CA [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; MOHAMED, Y. A. ET AL: "Synthesis and antimicrobial activity of some newer 6-iodo-2-methyl-3-substituted 4(3H)-quinazolinones" XP002397916 retrieved from STN Database accession no. 1993:101905 abstract & JOURNAL OF THE SERBIAN CHEMICAL SOCIETY , 57(10), 629-33 CODEN: JSCSEN; ISSN: 0352-5139, 1992, ----- -/--	12

☒ 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

7 September 2006

Date of mailing of the international search report

05. 01. 2007

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INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2006/062514

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	URWYLER S ET AL: "POSITIVE ALLOSTERIC MODULATION OF NATIVE AND RECOMBINANT GAMMA-AMINOBUTYRIC ACID RECEPTORS BY 2,6-DI-TERT-BUTYL-4-(3-HYDROXY-2,2-DIMETHYL-PROPYL)-PHENOL (CGP7930) AND ITS ALDEHYDE ANALOG CGP13501" MOLECULAR PHARMACOLOGY, BALTIMORE, MD, US, vol. 60, no. 5, November 2001 (2001-11), pages 963-971, XP001153169 ISSN: 0026-895X the whole document	1,15
A	EP 0 345 068 A (JOHN WYETH & BROTHER LIMITED) 6 December 1989 (1989-12-06) example 28 claim 1	1,15
A	US 4 952 573 A (LECLERC ET AL) 28 August 1990 (1990-08-28) column 1, paragraph 1 claim 1	1,15

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2006/062514

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:
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.:

1-11, 12(part), 13-19

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: 1-11, 12(part), 13-19

compound of formula I according to present claim 1,
quinoline intermediates and medicaments comprising compounds
of formula I

2. claim: 12(partially)

methanone derivatives as defined in claim 12 as
intermediates for the synthesis of present compound of
formula I

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2006/062514

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0345068	A	06-12-1989	AT 119874 T	15-04-1995
			CA 1336436 C	25-07-1995
			DE 68921671 D1	20-04-1995
			DE 68921671 T2	27-07-1995
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			ES 2070173 T3	01-06-1995
			GB 2219295 A	06-12-1989
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US 4952573	A	28-08-1990	NONE	