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[US/US]; 580 Arastradero Road #204, Palo Alto, CA 94306 (US).

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(74) Agent: JACKSON, David, A.; Klauber & Jackson, 411 Hackensack Avenue, Hackensack, NJ 07601 (US).

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(71) Applicant (for all designated States except US): RENO-VIS, INC. [US/US]; 2 Corporate Drive, South San Francisco, CA 94080 (US).

(72) Inventors; and

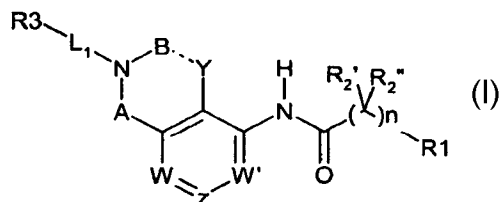
(75) Inventors/Applicants (for US only): KELLY, Michael, G. [GB/US]; 790 San Doval Place, Thousand Oaks, CA 91360 (US). KINCAID, John [US/US]; 2201 Bridgepointe Pkwy, San Mateo, CA 94404 (US). FANG, Yunfeng [CN/US]; 12029 World Trade Drive #4, San Diego, CA 92128 (US). CAO, Yeyu [CN/US]; 1131 Compass Lane #110, Foster City, CA 94404 (US). KAUB, Carl [US/US]; 120 West Third Avenue, San Mateo, CA 94404 (US). GOWLUGARI, Sumithra [IN/US]; 2021 S. Delaware St., Apt.#2, San Mateo, CA 94403 (US). WANG, Zhan

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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: BICYCLOHETEROARYL COMPOUNDS AS P2X7 MODULATORS AND USES THEREOF



(57) Abstract: Bicycloheteroaryl compounds are disclosed that have a formula represented by the following: The compounds may be prepared as pharmaceutical compositions, and may be used for the prevention and treatment of a variety of conditions in mammals including humans, including by way of non-limiting example, pain, inflammation, traumatic injury, and others.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/06721

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A01N 43/40 (2007.01)

USPC - 514/310; 514/867

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)

USPC - 514/310; 514/867

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 practicable, search terms used)

USPTO-WEST (PGPB,USPT,USOC,EPAB,JPAB), GOOGLE SCHOLAR/PATENT: bicycloheteroaryl, composition, P2X7, (pain or inflammation), 5-amino-3,4-dihydro-1H-isoquinoline

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/0215572 A1 (KELLY et al.) 29 September 2005 (29.09.2005); para [0021], [0031], [0051], [0052], [0069], [0070], [0111], [0115], [0125] and [0134]	1-16
Y		17-32, 46-53, 55-57 and 64
Y	US 2005/0267018 A1 (BLATT et al.) 01 December 2005 (01.12.2005); para [0064] and [0079]	17-32, 46-53, 55-57 and 64

Further documents are listed in the continuation of Box C.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"&" document member of the same patent family
"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	

Date of the actual completion of the international search  
08 July 2007 (08.07.2007)

Date of mailing of the international search report  
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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. 571-273-3201

Authorized officer:  
Lee W. Young  
PCT Helpdesk: 571-272-4300  
PCT OSP: 571-272-7774

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US 07/06721

**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:
  
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.: 33-45, 54, 58-63 and 65-85  
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 all searchable claims.
2.  As all searchable claims could be searched without effort justifying 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 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 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.