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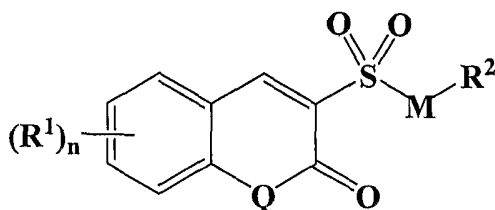
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HETEROARYL SULFONES AND SULFONAMIDES AND THERAPEUTIC USES THEREOF



(I)

(57) Abstract: Compounds of Formula (I): wherein R¹, R², M, Q and n are as defined herein, are useful as antiproliferative agents including, for example, as anticancer agents.

WO 2005/123077 A3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/20023

<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(8) : C07D 311/02; A61K 31/35 US CL : 549/285,400; 514/457 According to International Patent Classification (IPC) or to both national classification and IPC</p>																	
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) U.S. : 549/285,400; 514/457</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAS ONLINE, EAST</p>																	
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>T</td> <td>Reddy et al , BioOrg. Med. Chem. Let. "Synthesis of new coumarin 3-(N-aryl) sulfonamides and their anticancer activity. (08-2004) pp 4093-4097.</td> <td>7-10</td> </tr> <tr> <td>Y</td> <td>Vulfson et al, Chem Abs. 61-84101, (1964), abstract.</td> <td>7-10</td> </tr> <tr> <td>Y</td> <td>Merchant et al , Chem. Abs. 52-1900, (1957), abstract.</td> <td>7-10</td> </tr> <tr> <td>Y</td> <td>El-Maghraby et al, Chem. Abs. 105-208723 (1985), abstract.</td> <td>7-10</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	T	Reddy et al , BioOrg. Med. Chem. Let. "Synthesis of new coumarin 3-(N-aryl) sulfonamides and their anticancer activity. (08-2004) pp 4093-4097.	7-10	Y	Vulfson et al, Chem Abs. 61-84101, (1964), abstract.	7-10	Y	Merchant et al , Chem. Abs. 52-1900, (1957), abstract.	7-10	Y	El-Maghraby et al, Chem. Abs. 105-208723 (1985), abstract.	7-10
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<p><input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.</p>																	
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"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</td> </tr> <tr> <td>"E" earlier application or patent published on or after the international filing date</td> <td>"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</td> </tr> <tr> <td>"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)</td> <td>"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</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"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	"E" earlier application or patent published on or after the international filing date	"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	"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)	"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	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed						
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<p>Date of the actual completion of the international search 11 December 2005 (11.12.2005)</p>		<p>Date of mailing of the international search report 06 APR 2006</p>															
<p>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</p>		<p>Authorized officer C. Tsang <i>[Signature]</i> Telephone No. (571) 272-1600 <i>[Signature]</i></p>															

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/20023

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:
Please See Continuation Sheet

2. Claims Nos.: 1-6 and 11-76
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 all searchable claims.
 2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any 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.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/20023

Box II Observations where certain claims were found unsearchable 1. because they relate to subject matter not required to be searched by this Authority, namely:

In these claims, the numerous variables (e.g. R1, R2, R3, R4, Q, M,, Rx, Rw, Ry, Rz etc.) and their voluminous complex meanings and their seemingly endless permutations and combinations and the lengthy list of named compounds in claims 10, 12, 14, 16, 20, 23, 25, 27, 29, 33, 36, 38,40, 42, 46, 52, 56, 58, 60, 62, along with the numerous processes involved make it virtually impossible to determine the full scope and complete meaning of the claimed subject matter. As presented, the subject matter cannot be regarded as being a clear and concise description for which protection is sought and as such the listed claims don not comply with the requirements of PCT Article 6. Thus it is impossible to carry out a meaningful search on same. A search will be made on the first discernable invention of claim 10 which is 6-bromo-N-(4-methoxyphenyl)-2-oxo2H-chromene-3-sulfonamide, the first compound listed and related claims 7-9.