

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number  
**WO 2005/007099 A3**

(51) International Patent Classification<sup>7</sup>: **A01N 43/58**,  
43/50, A61K 31/495, 31/50, C07D 257/08, 257/12,  
471/00, 487/00, 491/00, 495/00, 497/00

(21) International Application Number:  
PCT/US2004/021834

(22) International Filing Date: 9 July 2004 (09.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/486,339 10 July 2003 (10.07.2003) US

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(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

**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:  
14 April 2005

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: PKB INHIBITORS AS ANTI-TUMOR AGENTS

(57) Abstract: The invention is directed to biaryl compounds with two six membered rings fused wherein at least one six membered ring is substituted with a thiophenyl or furanyl ring. Useful in the inhibition of PKB kinase, the treatment of cancer, or the inhibition of tumor growth.



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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/21834

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : A01N 43/58, 43/50; A61K 31/495, 31/50; C07D 257/08, 257/12, 471/00, 487/00, 491/00, 495/00, 497/00, US CL : 514/249; 544/279, 350, 353, 354 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 514/249; 544/279, 350, 353, 354 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched EAST: USPAT, USPG-PUB, EPO, JPO, DERWENT Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN: Structure searched in REGISTRY file, answer set crossed in CAPLUS file.		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	WO 99/42463 A1 (CARSON et al.) 26 August 1999 (26.08.1999), pages 43 and 44, pages 75-77.	1, 2, 4 ----- 17, 18, 20, 22-25
X	STEVENS et al. Substituted Sulfaquinoxalines. I. The Isolation and Synthesis of 3-Hydroxy-2-sulfanilamidoquinoxalines and of Related Quinoxalines. Journal of the American Chemical Society. 1946, Vol. 68, pages 1035-1039, especially page 1037.	1, 2, 4, 12, 13, 15
X	BERGSTROM et al. Cyclic Ammono Ketones and Acid Chlorides of the Quinoxaline Series. Journal of the American Chemical Society. 1931, Vol. 53, pages 1846-1853, especially page 1850,	1, 2, 4, 12, 13, 15
X	FUSON et al. Acyloins from t-Butylglyoxal. Journal of the American Chemical Society. 1939, Vol. 61, pages 1937-1940, especially page 1939.	1, 2, 4, 12, 13, 15
X	BENNETT et al. Steric Hindrance in Reactions of Substituted Quinoxalines. Journal of the Chemical Society. 1928, part 2, ,pages 1960-1975, especially page 1966.	1, 2, 4, 12, 13, 15
X	MALKIN et al. Phenyl Benzyl Diketone and some Derivatives. Journal of the Chemical Society. 1925, Vol. 127, pages 369-377, especially page 373.	1, 2, 4, 12, 13, 15
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Date of the actual completion of the international search 29 December 2004 (29.12.2004)		Date of mailing of the international search report 02 FEB 2005
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. (703) 305-3230		Authorized officer Zachary C. Tucker Telephone No. 571-272-1600

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US04/21834

## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BLACHE et al Heterocyclizations in the Pyrido[2,3-b]pyrazine Series. Journal of Heterocyclic Chemistry. 1994, Vol. 31, No. 1 , pages 161-166, especially page 163.	1, 2, 4, 6-9, 11