

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number
WO 2005/061477 A1

(51) International Patent Classification⁷: **C07D 307/85**,
209/42, 333/70, 413/04, 405/12, 235/24, 277/56, 409/12,
417/04, 495/04, 491/06, 407/04, 405/04, 263/58, 277/68

(US). **COLE, Derek, Cecil** [IE/US]; 14 Renfrew Road,
New City, NY 10956 (US).

(21) International Application Number:
PCT/US2003/040835

(74) Agents: **LUCCI, Joseph**, et al.; Woodcock Washburn
LLP, One Livery Place, 46th Floor, Philadelphia, PA
19103 (US).

(22) International Filing Date:
22 December 2003 (22.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(81) Designated States (*national*): 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, 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.

(30) Priority Data:
60/526,840 4 December 2003 (04.12.2003) US

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

(71) Applicant (*for all designated States except US*): **WYETH**
[US/US]; Five Giralda Farms, Madison, NJ 07940-0874
(US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **LEVIN, Jeremy, Ian**
[US/US]; 19 Long Meadow Drive, New City, NY 10956
(US). **RUSH, Thomas, Saltmarsh, III** [US/US]; 34 Bow
Street, Lexington, MA 02420 (US). **LOVERING, Frank**
[US/US]; 2 Sutton Place, Acton, MA 01720 (US). **HU,**
Yonghan [CN/US]; 1 Baron Park Lane, Burlington, MA
01803 (US). **LI, Jianchang** [US/US]; 926 Maple Street,
Carlisle, MA 01741 (US). **LI, Wei** [CN/US]; 25 Lexington
Drive, Acton, MA 01720 (US). **WU, Jun, Jun** [US/US];
33 Teel Street, Arlington, MA 02474 (US). **HOTCHAN-**
DANI, Rajeev [IN/US]; 46 Murdock Street, Somerville,
MA 02145 (US). **XIANG, Jason, Shaoyun** [US/US]; 3
River Street, Winchester, MA 01890 (US). **DU, Xuemei**
[US/US]; 130 Sierra Vista Lane, Valley Cottage, NY 10989

Declaration under Rule 4.17:

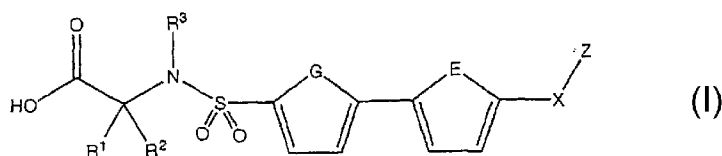
— *as to non-prejudicial disclosures or exceptions to lack of
novelty (Rule 4.17(v)) for all designations*

Published:

— *with international search report*
— *with a declaration as to non-prejudicial disclosures or ex-
ceptions to lack of novelty*

*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: BIARYL SULFONAMIDES AS MMP INHIBITORS



(57) Abstract: The present invention relates to biaryl sulfonamides and their use as, for example, metalloproteinase inhibitors: Formule (I).

WO 2005/061477 A1