

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 June 2006 (08.06.2006)

PCT

(10) International Publication Number
WO 2006/060202 A3

(51) International Patent Classification:

C11D 3/00 (2006.01) *C07D 233/68* (2006.01)
C11D 9/20 (2006.01) *C07D 233/62* (2006.01)
C07D 233/54 (2006.01) *C07D 233/14* (2006.01)
C07D 233/56 (2006.01) *C07D 233/22* (2006.01)
C07D 233/58 (2006.01) *C07D 233/12* (2006.01)
C07D 233/61 (2006.01) *C07D 233/20* (2006.01)
C07D 233/66 (2006.01) *C07D 233/18* (2006.01)
C07D 233/90 (2006.01) *C07D 233/26* (2006.01)
C07D 233/60 (2006.01) *C07D 233/28* (2006.01)
C07D 233/64 (2006.01)

(74) Agents: **GREENMAN, Jeffrey, M.** et al.; Bayer Pharmaceuticals Corporation, 400 Morgan Lane, West Haven, Connecticut 06516 (US).

(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, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:

PCT/US2005/042007

(22) International Filing Date:

18 November 2005 (18.11.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/632,028 30 November 2004 (30.11.2004) US

(71) Applicant (*for all designated States except US*): **BAYER PHARMACEUTICALS CORPORATION** [US/US]; 400 Morgan Lane, West Haven, Connecticut 06516 (US).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **ORTIZ, Astrid** [US/US]; 14 Augusta Drive, Unit 4, Vernon, New Jersey 07462 (US).

(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, IS, IT, LT, LU, LV, 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*

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

14 December 2006

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: IMIDAZOLE DERIVATIVES FOR THE TREATMENT OF PSYCHIATRIC DISORDERS

(57) Abstract: This invention relates to imidazole derivatives which are useful in treating psychiatric disorders.



WO 2006/060202 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/42007

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(8): Please See Continuation Sheet

 USPC: Please See Continuation Sheet
 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)
 U.S. : Please See Continuation Sheet

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)
 EAST, STN

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2004/0235854 A1 (Kruse et. al.) 25 November 2004 (25.11.2004), abstract, page 1 and 2, paragraphs 5-13; page 2, paragraph 14, lines 3-4.	1, 3, 4, 7, 9, ----- 5
X,E	US 2004/0248956 A1 (Hagmann et. al.) 9 December 2004 (09.12.2004), page 2 and 3, paragraphs 19-123; page 1, paragraph 2, lines 9, 13, and 14, paragraph 3; page 14, paragraph 409, lines 1-2; page 11, paragraph 373, lines 1-4, 16-18; page 14, paragraph 410, line 3 and 5; page 16, paragraph 455, lines 6, 10-11, 13, and 23; page 9, paragraph 359 and 373.	1, 3-17

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	"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		
"P" document published prior to the international filing date but later than the priority date claimed	"&"	document member of the same patent family

Date of the actual completion of the international search: 03 August 2006 (03.08.2006)
 Date of mailing of the international search report: 28 AUG 2006

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: Sreeni Padmanabhan
 Telephone No. (571) 272-0629

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/42007

Continuation of B. FIELDS SEARCHED Item 1:

514/396,397; 548/335.1,335.5,336.5,337.1,338.1,339.1,341.1,341.5,342.1,342.5,343.1,343.5,344.1,345.1,350.1,351.1,352.1

Continuation of IPC:

C11D 3/00(2006.01),**9/20**(2006.01);**C07D 233/54**(2006.01),**233/56**(2006.01),**233/58**(2006.01),**233/61**(2006.01),**233/66**(2006.01),**233/90**(2006.01),**233/60**(2006.01),**233/64**(2006.01),**233/68**(2006.01),**233/62**(2006.01),**233/58**(2006.01),**233/14**(2006.01),**233/22**(2006.01),**233/12**(2006.01),**233/20**(2006.01),**233/18**(2006.01),**233/26**(2006.01),**233/28**(2006.01)

Continuation of USPC:

514/396,397;548/335.1,335.5,336.5,337.1,338.1,339.1,341.1,341.5,342.1,342.5,343.1,343.5,344.1,345.1,350.1,351.1,352.1