(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
28 September 2006 (28.09.2006)

PCT

(10) International Publication Number
WO 2006/102194 A1

(51) International Patent Classification:
C07D 487/04 (2006.01) *A61P 25/20* (2006.01)
A61K 31/5025 (2006.01)

(21) International Application Number:
PCT/US2006/009942

(22) International Filing Date: 20 March 2006 (20.03.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/663,816 21 March 2005 (21.03.2005) US

(71) Applicant *(for all designated States except US)*: **ELI LILLY AND COMPANY** [US/US]; Lilly Corporate Center, Indianapolis, Indiana 46285 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **BARBOSA, Heather, Janelle** [US/US]; 7230 Forrester Lane, Indianapolis, Indiana 46217 (US). **COLLINS, Elizabeth, Aaron** [US/US]; 8374 South Private Drive 435 West, Edinburgh, Indiana 46124 (US). **HAMDOUCHI, Chafiq** [ES/US]; 14469 Twin Oaks Drive, Carmel, Indiana 46032 (US). **HEMBRE, Erik, James** [US/US]; 1332 North New Jersey Street, Indianapolis, Indiana 46202 (US). **HIPSKIND, Philip, Arthur** [US/US]; 4255 Cabin Court, New Palestine, Indiana 46163 (US). **JOHNSTON, Richard, Duane** [US/US]; 3712 Forest Lane, Greenfield, Indiana 46140 (US). **LU, Jianliang** [CN/US]; 11921 Castlestone Drive, Fishers, Indiana 46307 (US). **RUPP, Michael, John** [US/US]; 10003 Scotch Pine Lane, Indianapolis, In 46256 (US). **TAKAKUWA, Takako** [JP/US]; 7653 Germander Lane, Indianapolis, Indiana 46237 (US). **THOMPSON, Richard, Craig** [US/US]; 763 North County Road 900 West, Frankfort, Indiana 46041 (US).

(74) Agents: **HOSTETTLER, Danica** et al.; Eli Lilly and Company, P. O. Box 6288, Indianapolis, Indiana 46206-6288 (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.

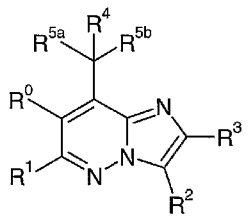
(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, 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).

Declarations under Rule 4.17:
— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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*

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: IMIDAZOPYRIDAZINE COMPOUNDS



(I)

(57) Abstract: The present invention relates to novel substituted imidazo[1,2-b]pyridazine compounds of Formula (I): pharmaceutical compositions thereof, and the use such compounds as corticotropin releasing factor 1 (CRF1) receptor antagonists in the treatment of psychiatric disorders and neurological diseases.

WO 2006/102194 A1