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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
12 January 2012 (12.01.2012)

PCT

(10) International Publication Number
WO 2012/006205 A1

(51) International Patent Classification:
C07D 207/08 (2006.01) *A61P 29/00* (2006.01)
A61K 31/40 (2006.01)

(21) International Application Number:
PCT/US2011/042518

(22) International Filing Date:
30 June 2011 (30.06.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/362,773 9 July 2010 (09.07.2010) US

(71) Applicant *(for all designated States except US)*: **THERAVANCE, INC.** [US/US]; 901 Gateway Boulevard, South San Francisco, California 94080 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **SAITO, Daisuke Roland** [US/US]; 1600 E. 3rd Avenue #2803, San Mateo, California 94401 (US). **RAPTA, Miroslav** [SK/US]; 411 E. Duane Avenue, Sunnyvale, California 94085 (US).

(74) Agents: **HAGENAH, Jeffrey A.** et al.; Theravance, Inc., 901 Gateway Boulevard, South San Francisco, California 94080 (US).

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

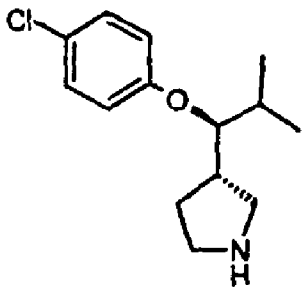
(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

WO 2012/006205 A1

(54) **Title**: CRYSTALLINE FORM OF A 3-PHENOXYMETHYLPYRROLIDINE COMPOUND



(I)

(57) **Abstract**: The invention provides a crystalline hydrochloride salt of *(S)*-3-[*(S)*-1-(4- chlorophenoxy)-2-methylpropyl]pyrrolidine. This invention also provides pharmaceutical compositions comprising the crystalline salt, processes and intermediates for preparing the crystalline salt, and methods of using the crystalline salt to treat diseases, (formula).