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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
23 February 2006 (23.02.2006)

PCT

(10) International Publication Number
WO 2006/019741 A1

(51) International Patent Classification[7]: A61K 31/085, 31/415, 31/4152, 31/426, A61P 3/04, 3/06, 3/10, 9/00, 9/10, 11/08, 19/00, 35/00

(21) International Application Number: PCT/US2005/024703

(22) International Filing Date: 8 July 2005 (08.07.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/587,850 14 July 2004 (14.07.2004) US

(71) Applicant *(for all designated States except US)*: **JANSSEN PHARMACEUTICA N.V.** [BE/BE]; Turnhoutseweg 30, B-2340 Beerse (BE).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **PLAYER, Mark, R.** [US/US]; 5022 Swan Drive, Phoenixville, PA 19460 (US). **POTTORF, Richard, S.** [US/US]; 74 Monroe Avenue, Belle Mead, NJ 08502 (US). **RENTZEPERIS, Dionisios** [US/US]; 406 Carpenters Cove Lane, Downingtown, PA 19335 (US). **DE, Dibyendu** [US/US]; 11528 Twickham Court, Suwanee, GA 30024 (US).

(74) Agent: **EVANS, Linda, S.**; Patent Law Dept., Johnson & Johnson, One Johnson & Johnson Plaza, New Brunswick, NJ 08933 (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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, 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).

Declaration under Rule 4.17:
— *of inventorship (Rule 4.17(iv)) for US only*

Published:
— *with international search report*

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: ARYLIDENES FOR THE TREATMENT OF ESTROGEN RELATED RECEPTOR-ALPHA MEDIATED DISEASES

(57) Abstract: Therapeutic methods of using certain heterocyclic arylidene aryl ether compounds for treating diseases or disorders mediated through modulation of estrogen related receptor alpha are described.

WO 2006/019741 A1