

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 February 2008 (28.02.2008)

PCT

(10) International Publication Number
WO 2008/022396 A1

(51) International Patent Classification:

A61K 31/437 (2006.01) A61P 25/00 (2006.01)
A61K 31/498 (2006.01) A61P 25/28 (2006.01)
A61K 31/4985 (2006.01) A61P 35/00 (2006.01)
A61K 31/5025 (2006.01) C07D 471/04 (2006.01)
A61K 31/519 (2006.01) C07D 241/38 (2006.01)
A61K 31/53 (2006.01) C07D 487/04 (2006.01)

Road, Barden Ridge, NSW 2234 (AU). **GREGURIC, Ivan, Damir** [AU/AU]; 5 Raymond Street, Oatley, NSW 2223 (AU). **MATTNER, Maria, Filomena, Pereira Soares** [AU/AU]; 1 Cowper Place, Barden Ridge, NSW 2234 (AU).

(74) Agent: **SPRUSON & FERGUSON**; GPO Box 3898, Sydney, NSW 2001 (AU).

(21) International Application Number:

PCT/AU2007/001216

(22) International Filing Date: 24 August 2007 (24.08.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

2006904617 24 August 2006 (24.08.2006) AU
2006907288 22 December 2006 (22.12.2006) AU

(71) Applicant (for all designated States except US): **AUSTRALIAN NUCLEAR SCIENCE & TECHNOLOGY ORGANISATION** [AU/AU]; New Illawarra Road, Lucas Heights, NSW 2234 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KATSIFIS, Andrew** [AU/AU]; 33 Valentia Avenue, Lugarno, NSW 2210 (AU). **FOOKES, Christopher, John, Reginald** [AU/AU]; 12 Kyogle Place, Grays Point, NSW 2232 (AU). **PHAM, Tien, Quoc** [AU/AU]; 219 Old Illawarra

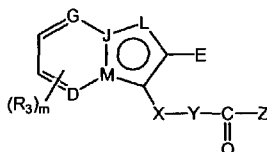
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, 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, MT, 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

(54) Title: FLUORINATED LIGANDS FOR TARGETING PERIPHERAL BENZODIAZEPINE RECEPTORS



(I)

(57) Abstract: The invention provides fluorinated compounds of formula (I): The compounds may be used in diagnosis or treatment of a disorder in a mammal characterised by an abnormal density of peripheral benzodiazepine receptors.