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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
23 October 2008 (23.10.2008)

PCT

(10) International Publication Number
WO 2008/125891 A2

(51) International Patent Classification:
C07D 239/48 (2006.01) *A61P 25/00* (2006.01)
A61K 31/506 (2006.01)

(21) International Application Number:
PCT/HU2008/000032

(22) International Filing Date: 10 April 2008 (10.04.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
P07 00269 11 April 2007 (11.04.2007) HU

(71) Applicant *(for all designated States except US)*: **RICHTER GEDEON NYRT** [HU/HU]; Gyömröi út 19-21, H-1103 Budapest (HU).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **BARTÁNÉ SZALAI, Gizella** [HU/HU]; Avarszállás u. 38, H-1162 Budapest (HU). **ÁGAINÉ CSONGOR, Éva** [HU/HU]; Rozália u. 35, H-1031 Budapest (HU). **DOMÁNY, György** [HU/HU]; Fö u. 2/G, H-7695 Óbánya (HU). **GYERTYÁN, István** [HU/HU]; Budapesti út 18/E, H-1161 Budapest (HU). **KISS, Béla** [HU/HU]; Nemeske u. 16/C, H-1182 Budapest (HU). **LASZY, Judit** [HU/HU]; Madách tér 1, H-2094 Nagykovácsi (HU). **SÁGHY, Katalin** [HU/HU]; Üllõi út 60/62., H-1082 Budapest (HU). **SCHMIDT, Éva** [HU/HU]; Széher u. 51/B, H-1021 Budapest (HU). **FARKAS, Sándor** [HU/HU]; Olajliget u. 42, H-1103 Budapest (HU). **KOMLÓDI, Zsolt** [HU/HU]; Helsinki út 8., H-1203 Budapest (HU).

(74) Agents: **RICHTER GEDEON NYRT.** et al.; Gyömröi út 19-21., H-1103 Budapest (HU).

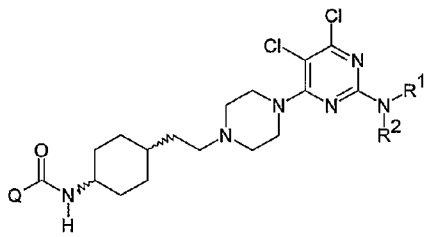
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, 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:
— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:
— *without international search report and to be republished upon receipt of that report*

(54) Title: PYRIMIDINYL-PIPERAZINES USEFUL AS D_3/D_2 RECEPTOR LIGANDS



(I)

(57) Abstract: The present invention relates to new dopamine D_3 and D_2 ligands of formula (I): wherein Rl, R2 and Q are as described herein, and/or geometric isomers and/or stereoisomers and/or diastereomers and/or salts and/or hydrates and/or solvates and/or polymorphs thereof. The invention also relates to processes for preparing the same, to compositions containing the same and to their use in the treatment and/or prevention of conditions which requires modulation of dopamine receptors.

WO 2008/125891 A2