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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
27 November 2008 (27.11.2008)

PCT

(10) International Publication Number
WO 2008/142462 A1

(51) International Patent Classification:
*A61K 31/495* (2006.01) *A61P 25/18* (2006.01)
*A61K 31/551* (2006.01)

(21) International Application Number:
PCT/HU2008/000051

(22) International Filing Date: 19 May 2008 (19.05.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
P0700369 24 May 2007 (24.05.2007) 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)*: **LASZLOVSZKY, István** [HU/HU]; Bartók Béla út 16., H-1111 Budapest (HU). **NÉMETH, György** [HU/HU]; Nagyerdei krt. 60., H-4032 Debrecen (HU). **ANDOR, György** [HU/HU]; Ramocsa u. 5-7., H-1118 Budapest (HU).

(74) Agent: **RICHTER GEDEON NYRT.**; 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:**
— *with international search report*

WO 2008/142462 A1

**(54) Title:** (THIO) -CARBAMOYL-CYCLOHEXANE DERIVATIVES AND METHOD FOR TREATING SCHIZOPHRENIA

**(57) Abstract:** The present invention relates to use of (thio)-carbamoyl-cyclohexane derivatives, particularly trans-4- {2-[4-(2,3 -dichlorophenyl)-piperazin-1-yl] -ethyl} -N,N- dimethylcarbamoyl-cyclohexylamine and pharmaceutically acceptable salts thereof in the manufacture of a medicament for the treatment of schizophrenia. Furthermore, the present invention relates to the treatment of schizophrenia through the administration of (thio)- carbamoyl cyclohexane derivatives, particularly trans-4- {2-[4-(2,3-dichlorophenyl)-piperazin- 1-yl] -ethyl}-N,N-dimethylcarbamoyl-cyclohexylamine and pharmaceutically acceptable salts thereof.