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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
22 September 2005 (22.09.2005)

PCT

(10) International Publication Number
WO 2005/087212 A1

(51) International Patent Classification[7]: A61K 31/135, 31/55, 31/4015, 31/475, 31/445, 31/355, 45/06, A61P 25/28

(21) International Application Number:
PCT/HU2004/000022

(22) International Filing Date: 12 March 2004 (12.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant *(for all designated States except US)*: **EGIS GYÓGYSZERGYÁR RT.** [HU/HU]; Keresztúri út 30-38., H-1106 Budapest (HU).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **LÉVAY, György** [HU/HU]; Gábor Áron u. 10., H-2092 Budakeszi (HU). **GACSÁLYI, István** [HU/HU]; Baross u. 67., H-1201 Budapest (HU). **HÁRSING, László, Gábor** [HU/HU]; Dembinszky u. 8., H-1071 Budapest (HU). **SIMIG, Gyula** [HU/HU]; Hollósy S. u. 25., H-1126 Budapest (HU).

(74) Agent: **ADVOPATENT Office of Patent and Trademark Attorneys**; P.O. Box 11, H-1251 Budapest (HU).

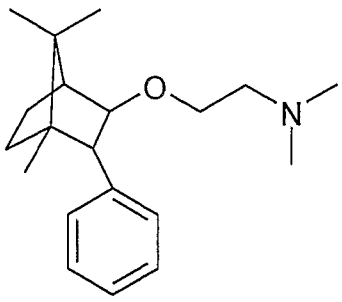
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, 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, 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, IT, LU, 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).

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: COMBINED PHARMACEUTICAL COMPOSITION FOR THE INHIBITION OF THE DECLINE OF COGNITIVE FUNCTIONS



(I)

(57) Abstract: The invention relates to a combined pharmaceutical composition for the inhibition of the decline of cognitive functions comprising as A) component (1R,2S,4R)-(-)-2-[N,N-(dimethylaminoethoxy)]-2-phenyl-1,7,7-trimethylbicyclo]-2-phenyl-1.7.-trimethylbicyclo[2.2.1]heptane of the formula (I) or a pharmaceutically acceptable acid addition salt thereof and as B) component a nootropic, an inhibitor of the acetylcholinesterase enzyme and/or a further pharmaceutical active ingredient which exhibits a beneficial effect on the cognitive processes in admixture with suitable inert pharmaceutical carriers and/or auxiliary agents. The combined pharmaceutical composition according to the present invention can be particularly used for the treatment of Alzheimer disease or other diseases showing similar symptoms, diseases accompanied by malfunctions of intellectual abilities (e.g. mental decline in schizophrenia), mental decline in elderly (dementias in elderly), Korsakoff syndrome, Huntington syndrome, Parkinson syndrome or mental decline produced by alcoholism.

WO 2005/087212 A1