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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
5 July 2007 (05.07.2007)

PCT

(10) International Publication Number
WO 2007/075555 A3

(51) International Patent Classification:
A61P 3/04 (2006.01) *A61K 45/06* (2006.01)
A61P 3/10 (2006.01)

(21) International Application Number:
PCT/US2006/048223

(22) International Filing Date:
18 December 2006 (18.12.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/752,323 21 December 2005 (21.12.2005) US

(71) Applicant *(for all designated States except US)*: **SCHERING CORPORATION** [US/US]; 2000 Galloping Hill Road, Kenilworth, NJ 07033-0530 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **VAN HEEK, Margaret** [US/US]; 1851 Raritan Road, Scotch Plains, NJ 07076 (US). **HWA, Joyce, J.** [US/US]; 909 Prospect Street, Westfield, NJ 07090 (US). **GRAZIANO, Michael, P.** [US/US]; 2239 Concord Road, Scotch Plains, NJ 07076 (US). **LACHOWICZ, Jean, E.** [US/US]; 260 Lorraine Drive, Berkeley Heights, NJ 07922 (US). **KOWALSKI, Timothy, J.** [US/US]; 7 Jeffers Road, Plainsboro, NJ 08536 (US). **VELTRI, Enrico, P.** [US/US]; 6 Toftrees Court, Princeton, NJ 08540 (US). **MCCORMICK, Kevin, D.** [US/US]; 15 Brookfield Drive, Basking Ridge, NJ 07920 (US). **BERLIN, Michael, Y.** [RU/US]; 14 Hendrick Road, Flemington, NJ 08822 (US). **ASLANIAN, Robert, G.** [US/US]; 144 Philip Drive, Rockaway, NJ 07866 (US).

(74) Agent: **BERGMAN, Jeffrey, P.**; SCHERING-PLOUGH CORPORATION, Patent Department, K-6-1 1990, 2000 Galloping Hill Road, Kenilworth, NJ 07033-0530 (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, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, 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, 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).

Declarations under Rule 4.17:
— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:
— *with international search report*

(88) Date of publication of the international search report:
21 December 2007

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: COMBINATION OF AN H3 ANTAGONIST/INVERSE AGONIST AND AN APPETITE SUPPRESSANT

(57) Abstract: The present invention relates to pharmaceutical compositions comprising therapeutic combinations comprising: one or more H3 antagonists/inverse agonists; one or more appetite suppressants selected from the group consisting of CBi antagonists/inverse agonists, sibutramine, phentermine and topiramate; and option one or more HMG-CoA reductase inhibitors. The invention also relates to medicaments and kits comprising the pharmaceutical compositions of the present invention, and methods of treating obesity, obesity related disorders and diabetes using the pharmaceutical compositions of the present invention.

WO 2007/075555 A3