

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
4 January 2007 (04.01.2007)

PCT

(10) International Publication Number
WO 2007/002557 A1

(51) International Patent Classification:

A61K 31/196 (2006.01) C07D 271/06 (2006.01)
A61K 31/33 (2006.01) C07D 277/30 (2006.01)
C07C 233/45 (2006.01) C07D 309/28 (2006.01)
C07C 233/46 (2006.01) C07D 401/04 (2006.01)
C07D 231/12 (2006.01) C07D 413/04 (2006.01)
C07D 249/06 (2006.01) C07D 417/04 (2006.01)
C07D 257/04 (2006.01) C07D 513/04 (2006.01)
C07D 261/20 (2006.01)

Weichun [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). **SCHMIDT, Darby Rye** [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). **TRIA, George Scott** [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US).

(74) Common Representative: **MERCK & CO., INC.**; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US).

(21) International Application Number:

PCT/US2006/024740

(22) International Filing Date: 26 June 2006 (26.06.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/694,711 28 June 2005 (28.06.2005) US

(71) Applicant (for all designated States except US): **MERCK & CO., INC.** [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RAGHAVAN, Subharekha** [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). **COLLETTI, Steven, L.** [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). **DING, Fa-Xiang** [CN/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). **SHEN, Hong** [CN/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). **TATA, James, R.** [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). **LINS, Ashley Rouse** [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). **SMENTON, Abigail Lee** [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). **CHEN,**

(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, 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, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

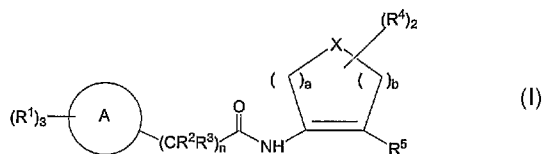
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, 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).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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: NIACIN RECEPTOR AGONISTS, COMPOSITIONS CONTAINING SUCH COMPOUNDS AND METHODS OF TREATMENT



(57) Abstract: The present invention encompasses compounds of Formula (I): as well as pharmaceutically acceptable salts and hydrates thereof, that are useful for treating atherosclerosis, dyslipidemias and the like. Pharmaceutical compositions and methods of use are also included.