

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 February 2009 (26.02.2009)

PCT

(10) International Publication Number
WO 2009/024492 A1

(51) International Patent Classification:

C07C 59/68 (2006.01) *C07D 239/54* (2006.01)
C07C 229/34 (2006.01) *C07D 317/54* (2006.01)
C07C 323/56 (2006.01) *C07D 317/58* (2006.01)
C07D 209/12 (2006.01) *C07D 317/60* (2006.01)
C07D 213/30 (2006.01) *C07D 319/18* (2006.01)
C07D 213/61 (2006.01) *C07D 333/16* (2006.01)
C07D 217/14 (2006.01) *C07D 333/18* (2006.01)
C07D 239/26 (2006.01)

[US/US]; 799 Long Hill Road, Morris County, Gillette, New Jersey 07933 (US). **KOWALCZYK, Agnieszka** [PL/US]; 14 Autumn Drive, Mine Hill, New Jersey 07803 (US). **QIAO, Qi** [CA/US]; 21 D Alfred Lane, Bloomfield, New Jersey 07003 (US). **SIDDURI, Achyutharao** [US/US]; 22 Washington Court, Livingston, New Jersey 07039 (US).

(21) International Application Number:

PCT/EP2008/060511

(22) International Filing Date: 11 August 2008 (11.08.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/956,940 21 August 2007 (21.08.2007) US

(71) Applicant (for all designated States except US): **F. HOFFMANN-LA ROCHE AG** [CH/CH]; Grenzacherstrasse 124, CH-4070 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DOMINIQUE, Romyr** [CA/US]; 1124 Crossing Way, Wayne, New Jersey 07470 (US). **FOTOUHI, Nader** [FR/US]; 3 Conking Street, Basking Ridge, New Jersey 07920 (US). **GILLE-SPIE, Paul** [GB/US]; 739 Tamaques Way, Westfield, New Jersey 07090 (US). **GOODNOW, Robert, Alan, Jr.**

(74) Agent: **HEIROTH, Ulrike**; Grenzacherstrasse 124, CH-4070 Basel (CH).

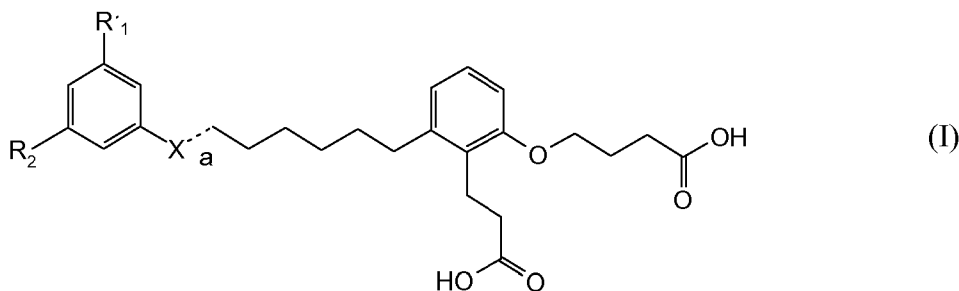
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, 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, ST, 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).

Published:

— with international search report

(54) Title: LEUKOTRIENE B4 INHIBITORS



(57) Abstract: Provided herein are compounds of the formula (I): as well as pharmaceutically acceptable salts thereof, wherein the substituents are as those disclosed in the specification. These compounds, and the pharmaceutical compositions containing them, are useful for the treatment of diseases such as, for example, COPD