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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
22 September 2011 (22.09.2011)

PCT

(10) International Publication Number
WO 2011/113606 A1

(51) International Patent Classification:
C07D 471/04 (2006.01) *A61K 31/4188* (2006.01)
C07D 487/04 (2006.01) *A61P 31/06* (2006.01)

(21) International Application Number:
PCT/EP2011/001345

(22) International Filing Date:
18 March 2011 (18.03.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/315,113 18 March 2010 (18.03.2010) US
61/440, 937 9 February 2011 (09.02.2011) US

(71) Applicants *(for all designated States except US)*: **INSTITUT PASTEUR KOREA** [KR/KR]; 39-1 Hawolgok-dong, Seongbuk-gu, Seoul 136-791 (KR). **INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM) (EPST)** [FR/FR]; 101, rue de Tolbiac, F-75013 Paris (FR).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **NO, Zaesung** [KR/KR]; Dongmun Goodmorning Hill Apt. 504-2201, Dongcheon-dong, Susi-gu, Yongin-si, Gyeonggido (KR). **KIM, Jaeseung** [KR/KR]; #52-102 Hyundai Apt., Apgu-jeong-dong, Gangnam-gu, Seoul (KR). **BRODIN, Priscille Brodin** [FR/FR]; 39 avenue René Coty, F-75014 Paris (FR). **SEO, Min Jung** [KR/KR]; 406 Onetown, 260-8 Woncheon-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do (KR). **KIM, Young Mi** [KR/KR]; #105-1503 Bamggot Maeul Tranchae Apt., Yuljeon-dong, Jangan-gu, Suwon-si, Gyeonggi-do, 440-724 (KR). **CECHETTO, Jonathan** [CA/KR]; Unit 510, Daerim Arvill Apartment House, Hannam-dong, Yongsang-gu, Seoul 140-210 (KR). **JEON, Heekyoung** [KR/KR]; 585 Pangyo-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-410 (KR). **GENOVESIO, Auguste** [FR/KR]; #603 Brillante Villa, Seocho-gu, Banpo-dong, 107-41, Seoul (KR). **LEE, Saeyeon** [KR/KR]; # 106-1702, Sujin Maeul Sunny Valley Apt., Dongcheon-dong, Suji-gu,Yongin-si, Gyeonggi-do (KR). **KANG, Sunhee** [KR/KR]; #106-901 Doosan Weve Apt., Banwol-dong, Hwaseong-si, Gyeonggi-do (KR). **EWANN, Fanny Anne** [FR/KR]; Sunwoo Villa #503, Banpo-4-Dong, Seocho-Gu, Seoul 137-807 (KR). **NAM, Ji Youn** [KR/KR]; 204, 879-1, Dongchun-dong, Suji-gu, Yongin, 448-504 (KR). **CHRISTOPHE, Thierry** [FR/FR]; 21 rue Ampère, F-25300 (FR). **FENISTEIN, Denis, Philippe, Cedric** [FR/NL]; Davisstraat 3-III, NL-1057 TE Amsterdam (NL). **JAMUNG, Heo** [KR/KR]; #305 Uman Jugong 4-Danji 402, Uman 1-dong, Paldal-gu Suwon-si, Gyeonggi-do, 442-191 (KR). **JIYEON, Jang** [KR/KR]; #116-103, Hyundai APT, Gaebong-dong, Guro-gu, Seoul, 152-755 (KR).

(74) Agents: **ENGELHARD, Markus** et al.; Boehmert & Boehmert, Hollerallee 32, 28209 Bremen (DE).

(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, CL, 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, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

WO 2011/113606 A1

(54) Title: ANTI-INFECTIVE COMPOUNDS

(57) Abstract: The present invention relates to small molecule compounds and their use in the treatment of bacterial infections, in particular Tuberculosis.