

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
2 July 2009 (02.07.2009)

PCT

(10) International Publication Number
WO 2009/080534 A1

(51) International Patent Classification:

C07D 471/04 (2006.01) A61K 31/437 (2006.01)
C07D 487/04 (2006.01) A61P 31/12 (2006.01)
A61K 31/5025 (2006.01) A61P 31/18 (2006.01)

(74) Agent: **KJELLSAA-BERGER, Hanny**; Grenzacherstrasse 124, CH-4070 Basel (CH).

(21) International Application Number:

PCT/EP2008/067274

(22) International Filing Date:

11 December 2008 (11.12.2008)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/016,142 21 December 2007 (21.12.2007) 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): **BILLEDEAU, Roland J.** [US/US]; 3491 Butcher Drive, Santa Clara, California 95051 (US). **SWEENEY, Zachary Kevin** [US/US]; 143 King Street, Redwood City, California 94062 (US).

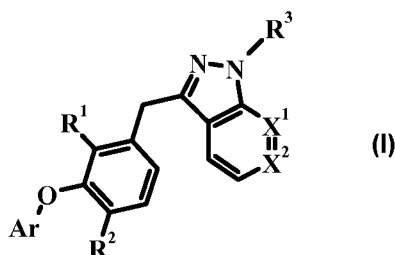
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM,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

(57) Abstract: Compounds of formula (I), wherein R^1 , R^2 , R^3 , X^1 , X^2 and Ar, are as defined herein or pharmaceutically acceptable salts thereof, inhibit HIV-I reverse transcriptase and afford a method for prevention and treatment of HIV-I infections and the treatment of AIDS and/or ARC. The present invention also relates to compositions containing compounds of formula (I) useful for the prevention and treatment of HIV-I infections and the treatment of AIDS and/or ARC.