



(51) International Patent Classification:

C07D 215/06 (2006.01) **C07D 413/04** (2006.01)
C07D 215/14 (2006.01) **C07D 417/04** (2006.01)
C07D 215/18 (2006.01) **C07D 487/04** (2006.01)
C07D 215/38 (2006.01) **C07D 519/00** (2006.01)
C07D 215/48 (2006.01) **C07D 215/227** (2006.01)
C07D 401/04 (2006.01) **A61P 31/18** (2006.01)
C07D 401/12 (2006.01) **A61K 31/47** (2006.01)
C07D 405/04 (2006.01)

(21) International Application Number:

PCT/US2011/042881

(22) International Filing Date:

1 July 2011 (01.07.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/361,335 2 July 2010 (02.07.2010) US

(71) Applicant (for all designated States except US):
GILEAD SCIENCES, INC. [US/US]; 333 Lakeside Drive, Foster City, CA 94404 (US).

(72) Inventors; and

(71) Applicants : **BABAOGLU, Kerim** [US/US]; 39 Kathleen Ct., Pacifica, CA 94044 (US). **BJORNSON, Kyla** [US/US]; 333 Lakeside Drive, Foster City, CA 94404 (US). **GUO, Hongyan** [CN/US]; 1743 Maxine Avenue, San Mateo, CA 94401 (US). **HALCOMB, Randall, L.** [US/US]; 892 Gull Avenue, Foster City, CA 94404 (US). **LINK, John, O.** [US/US]; 74 Prospect Avenue, San Francisco, CA 94110 (US). **LIU, Hongtao** [CN/US]; 10320 Orange Avenue, Cupertino, CA 95014 (US). **MITCHELL, Michael, L.** [US/US]; 108 Crossing Court,

Hayward, CA 94544 (US). **SUN, Jianyu** [CA/US]; 1592 Lago Street, Apt. 100, San Mateo, CA 94403 (US). **VI-VIAN, Randall, W.** [US/US]; 1430 Via Vista, San Mateo, CA 94404 (US). **XU, Lianhong** [US/US]; 970 Blair Court, Palo Alto, CA 94404 (US).

(74) Agents: **MICKELSON, John, W.** et al.; Viksnins Harris & Pady PLLP, P.O. Box 111098, St. Paul, MN 55111-1098 (US).

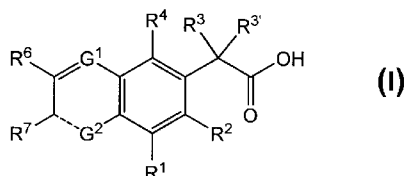
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM,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

(81) 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))

(54) Title: 2 -QUINOLINYL- ACETIC ACID DERIVATIVES AS HIV ANTIVIRAL COMPOUNDS



(57) Abstract: The invention provides compounds of formula (I): or a salt thereof as described herein. The invention also provides pharmaceutical compositions comprising a compound of formula (I), processes for preparing compounds of formula (I), intermediates useful for preparing compounds of formula I and therapeutic methods for treating the proliferation of the HIV virus, treating AIDS or delaying the onset of AIDS or ARC symptoms in a mammal using compounds of formula (I).