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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
30 September 2010 (30.09.2010)

PCT

(10) International Publication Number
WO 2010/111437 A1

(51) International Patent Classification:
C07D 401/04 (2006.01) *C07D 409/14* (2006.01)
C07D 403/04 (2006.01) *A61K 31/513* (2006.01)
C07D 407/04 (2006.01) *A61P 31/12* (2006.01)

(21) International Application Number:
PCT/US2010/028561

(22) International Filing Date:
25 March 2010 (25.03.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/163,157 25 March 2009 (25.03.2009) US

(71) Applicant *(for all designated States except US)*: **ABBOTT LABORATORIES** [US/US]; 100 Abbott Park Road, Abbott Park, Illinois 60064 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **ROCKWAY, Todd W.** [US/US]; 34136 North Lavender Circle, Gurnee, Illinois 60030 (US). **BETEBENNER, David A.** [US/US]; 220 Appley Avenue, Libertyville, Illinois 60048 (US). **DEGOEY, David A.** [US/US]; 8649 226th Avenue, Salem, Wisconsin 53168 (US). **FLENTGE, Charles A.** [US/US]; 8628 225th Avenue, Salem, Wisconsin 53168 (US). **HUTCHINSON, Douglas K.** [US/US]; 160 East Depot Street, Antioch, Illinois 60002-1863 (US). **KATI, Warren M.** [US/US]; 152 Knobb Hill Lane, Gurnee, Illinois 60031 (US). **KRUEGER, Allan C.** [US/US]; 7260 Presidential Drive, Gurnee, Illinois 60031 (US). **LIU, Dachun** [CN/US]; 504 Lakehurst Road, Apt. 1R, Waukegan, Illinois 60085 (US). **LONGENECKER, Kenton L.** [US/US]; 1371 Osage Orange Road, Grayslake, Illinois 60030 (US). **PRATT, John K.** [US/US]; 8210 61st Avenue, Kenosha, Wisconsin 53142 (US). **STEWART, Kent D.** [US/US]; 4715 King's Way North, Gurnee, Illinois 60031 (US). **WAGNER, Rolf** [US/US]; 42530 Sheridan Oaks Drive, Antioch, Illinois 60002 (US).

(74) Agents: **NENOW, Lydia N.** et al.; Abbott Laboratories, Dept. 0377, Bldg. AP6A-1A, 100 Abbott Park Road, Abbott Park, Illinois 60064-6008 (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, 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 (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, 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))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

WO 2010/111437 A1

(54) Title: ANTIVIRAL COMPOUNDS AND USES THEREOF

(57) Abstract: This invention relates to: (a) compounds and salts thereof that, inter alia, inhibit HCV; (b) intermediates useful for the preparation of such compounds and salts; (c) compositions comprising such compounds and salts; (d) methods for preparing such intermediates, compounds, salts, and compositions; (e) methods of use of such compounds, salts, and compositions; and (f) kits comprising such compounds, salts, and compositions.