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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
1 July 2010 (01.07.2010)

PCT

(10) International Publication Number
WO 2010/075380 A1

(51) International Patent Classification:
C07D 471/04 (2006.01) *A61K 31/519* (2006.01)
A61K 31/4375 (2006.01) *A61P 31/14* (2006.01)

(21) International Application Number:
PCT/US2009/069188

(22) International Filing Date:
22 December 2009 (22.12.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/140,318 23 December 2008 (23.12.2008) US

(71) Applicant *(for all designated States except US)*: **ABBOTT LABORATORIES** [US/US]; 100 Abbott Park Road, Abbott Park, IL 60064-6008 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **DEGOEY, David, A.** [US/US]; 8649 226th Avenue, Salem, WI 53168 (US). **DONNER, Pamela, L.** [US/US]; 1901 Mcrae Lane, Mundelein, IL 60060 (US). **KATI, Warren, M.** [US/US]; 152 Knobb Hill Lane, Gurnee, IL 60031 (US). **HUTCHINS, Charles, W.** [US/US]; 31005 Prairie Ridge Road, Green Oaks, IL 60048 (US). **KRUEGER, Allan, C.** [US/US]; 7260 Presidential Drive, Gurnee, IL 60031 (US). **RANDOLPH, John, T.** [US/US]; 304 Broadway Avenue, Libertyville, IL 60064 (US). **MOTTER, Christopher, E.** [US/US]; 10135 South Warwick Drive, Oak Creek, WI 53154 (US). **KRISHNAN, Preethi** [IN/US]; 17718 W. Running Creek Court, Gurnee, IL 60031 (US). **MISTRY, Neeta, C.** [IN/US]; 1440 Huntington Drive, Mundelein, IL 60060 (US). **PILOT-MATIAS, Tami, J.** [US/US]; 2100 Cranbrook Road, Green Oaks, IL 60048 (US). **PATEL, Sachin, V.** [US/US]; 1325 S. White Oak Drive, #1725, Waukegan, IL 60085 (US). **LI, Xiaoyan** [US/US]; 1220 S. White Oak Drive, #1018, Waukegan, IL 60085 (US). **SOLTWEDEL, Todd, N.** [US/US]; 4808 W. Strong Street, 1st Floor, Chicago, IL 60630 (US). **NELSON, Lissa, T.** [US/US]; 640 Broadview Avenue, Highland Park, IL 60035 (US).

(74) Agent: **MUELLER, Lisa**; Polsinelli Shughart PC, 700 W. 47th Street, Suite 1000, Kansas City, MO 64112 (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, 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, 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 2010/075380 A1

(54) Title: ANTI-VIRAL COMPOUNDS

(57) Abstract: Compounds effective in inhibiting replication of Hepatitis C virus ("HCV") are described. This invention also relates to processes of making such compounds, compositions comprising such compounds, and methods of using such compounds to treat HCV infection.