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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
5 July 2007 (05.07.2007)

PCT

(10) International Publication Number
WO 2007/076034 A3

(51) International Patent Classification:
C07D 471/04 (2006.01)

(21) International Application Number:
PCT/US2006/049079

(22) International Filing Date:
20 December 2006 (20.12.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/752,473	21 December 2005 (21.12.2005)	US
11/613,810	20 December 2006 (20.12.2006)	US

(71) Applicant *(for all designated States except US)*: **ABBOTT LABORATORIES** [US/US]; Dept. 377 Bldg Ap6a-1, 100 Abbott Park Road, Abbott Park, Illinois 60064-6008 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **BETEBENNER, David, A.** [US/US]; 220 Appley Ave., Libertyville, Illinois 60048 (US). **DEGOEY, David, A.** [US/US]; 8649 226th Ave., Salem, Illinois 53168 (US). **MARING, Clarence, J.** [US/US]; 1228 W. Borders Drive, Palatine, Illinois 60067 (US). **KRUEGER, Allan, C.** [US/US]; 7260 Presidential Drive, Gurnee, Illinois 60031 (US). **IWASAKI, Nobuhiko** [JP/US]; 301 Gardenia Lane, Buffalo Grove, Illinois 60089 (US). **ROCKWAY, Todd, W.** [US/US]; 34136 N. Lavender Circle, , Il, United States Of America, Grayslake, Illinois 60030 (US). **COOPER, Curt, S.** [US/US]; 1799 N. Stanwich Road, Vernon Hills, Illinois 60061 (US). **ANDERSON, David, D.** [US/US]; 3528 89th St., Kenosha, Illinois 53142 (US). **DONNER, Pamela, L.** [US/US]; 1901 Mcrae Ln., Mundelein, Illinois 60060 (US). **GREEN, Brian, E.** [US/US]; 3630 Whitetail Drive, Wonder Lake, Illinois 60097 (US). **KEMPF, Dale, J.** [US/US]; 256 Tyler Court, Libertyville, Illinois 60048 (US). **LIU, Dachun** [CN/US]; 504 Lakehurst Road, Waukegan, Illinois 60085 (US). **MCDANIEL, Keith, F.** [US/US]; 26029 W. Laurel Court, Wauconda, IL 60084 (US). **MADIGAN, Darold, L.** [US/US]; 908 Wisconsin, Elk Grove Village, Illinois 60007 (US). **MOTTER, Christopher, E.** [US/US]; 10135 S. Warwick Drive, Oak Creek, Wisconsin 53154 (US). **PRATT, John, K.** [US/US]; 8210 61st Ave., Kenosha, Wisconsin 53142 (US). **SHANLEY, Jason, P.** [US/US]; 5959 N. Magnolia Ave., Chicago, Illinois 60660 (US). **TUFANO, Michael, D.** [US/US]; 6539 Washtenaw Drive, Chicago, Illinois 60645 (US). **WAGNER, Rolf** [US/US]; 42530 Sheridan Oaks Drive, Antioch, Illinois 60002 (US). **ZHANG, Rong** [CN/US]; 1223 Calyle Drive, Niskayuna, New York 12309 (US). **MOLLA, Akhteruzzaman** [US/US]; 1249 Vista Drive, Gurnee, Illinois 60031 (US). **MO, Hongmei** [US/US]; 333 Lakeside Drive, Foster City, California 94404 (US). **PILOT-MATIAS, Tami, J.** [US/US]; 2100 Cranbrook Road, , Il, United States Of America, Green Oaks, Illinois 60048 (US). **MASSE, Sherie, VL.** [US/US]; 9607 71st Street, Kenosha, Wisconsin 53142 (US). **CARRICK, Robert, J.** [US/US]; 9925 4th Ave., Pleasant Prairie, Wisconsin 53158 (US). **HE, Weping** [US/US]; 310 Merrill Court, Libertyville, Illinois 60048 (US). **LU, Liangjun** [US/US]; 339 Tally Ho Drive, Vernon Hills, Illinois 60061 (US). **GRAMPOVNIK, David, J.** [US/US]; 2500 N. Walnut Street, Waukegan, Illinois 60087 (US).

(74) Agents: **WARD, Michael, J.** et al.; Dept. 377 Bldg Ap6a-1, 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, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, 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, LV, LY, MA, MD, 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, 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, HU, IE, IS, IT, LT, LU, LV, MC, NL, 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*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
4 October 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ANTI-VIRAL COMPOUNDS

(57) Abstract: Compounds effective in inhibiting replication of Hepatitis C virus ("HCV") or other viruses are disclosed. This invention is also directed to compositions comprising such compounds, co-formulation or co-administration of such compounds with other anti-viral or therapeutic agents, processes and intermediates for the syntheses of such compounds, and methods of using such compounds for the treatment of HCV or other viral infections.

WO 2007/076034 A3