

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 September 2008 (18.09.2008)

PCT

(10) International Publication Number
WO 2008/112473 A1

(51) International Patent Classification:

C07D 487/04 (2006.01) A61K 31/55 (2006.01)
A61P 31/12 (2006.01)

(21) International Application Number:

PCT/US2008/055893

(22) International Filing Date: 5 March 2008 (05.03.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/894,887 14 March 2007 (14.03.2007) US
60/989,474 21 November 2007 (21.11.2007) US

(71) Applicant (for all designated States except US): **BRISTOL-MYERS SQUIBB COMPANY** [US/US]; Route 206 and Province Line Road, Princeton, New Jersey 08543-4000 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GENTLES, Robert G.** [GB/US]; Bristol-Myers Squibb Company, 5 Research Parkway, Wallingford, Connecticut 06492 (US). **ZHENG, Xiaofan** [CN/US]; Bristol Myers Squibb Company, 5 Research Parkway, Wallingford, Connecticut 06492 (US). **DING, Min** [US/US]; Bristol Myers Squibb Company, 5 Research Parkway, Wallingford, Connecticut 06492 (US). **TU, Yong** [CN/US]; Bristol Myers Squibb Company, 5 Research Parkway, Wallingford, Connecticut 06492 (US). **HAN, Ying** [US/US]; Bristol Myers Squibb Company, 5 Research Parkway, Wallingford, Connecticut 06492 (US). **HEWAWASAM, Piyasena** [US/US]; Bristol Myers Squibb Company, 5 Research Parkway, Wallingford, Connecticut 06492 (US). **KADOW, John F.** [US/US]; Bristol Myers Squibb Company, 5 Research Parkway, Wallingford, Connecticut 06492 (US). **BENDER, John A.** [US/US]; Bristol Myers Squibb Company, 5 Research Parkway, Wallingford, Connecticut 06492 (US). **YEUNG,**

Kap-sun [US/US]; Bristol Myers Squibb Company, 5 Research Parkway, Wallingford, Connecticut 06492 (US). **GRANT-YOUNG, Katharine A.** [US/US]; Bristol Myers Squibb Company, 5 Research Parkway, Wallingford, Connecticut 06492 (US). **HUDYMA, Thomas W.** [US/US]; 105R Black Walnut Drive, P.O. Box 245, Durham, Connecticut 06422 (US).

(74) Agents: **EPPERSON, James** et al.; Bristol-Myers Squibb Company, P.O. Box 4000, Princeton, New Jersey 08543-4000 (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, 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).

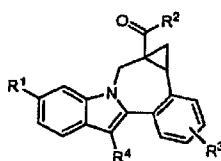
Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report

(54) Title: COMPOUNDS FOR THE TREATMENT OF HEPATITIS C



(I)

(57) Abstract: The invention encompasses compounds of formula I, including pharmaceutically acceptable salts, as well as compositions and methods of using these compounds. The compounds have activity against hepatitis C virus (HCV) and are useful in treating those infected with HCV.

WO 2008/112473 A1