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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
14 April 2011 (14.04.2011)

PCT

(10) International Publication Number
WO 2011/042399 A1

(51) International Patent Classification:
C07D 487/04 (2006.01) *A61P 9/10* (2006.01)
C07D 491/04 (2006.01) *A61P 29/00* (2006.01)
A61K 31/52 (2006.01)

(21) International Application Number:
PCT/EP2010/064770

(22) International Filing Date:
5 October 2010 (05.10.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09172408.8 7 October 2009 (07.10.2009) EP

(71) Applicant *(for all designated States except US)*: **F. HOFFMANN-LA ROCHE AG** [CH/CH]; Grenzacherstrasse 124, CH-4070 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **AEBI, Johannes** [CH/CH]; Im Kugelfang 27, CH-4102 Binningen (CH). **BINGGELI, Alfred** [CH/CH]; Im Kugelfang 50, CH-4102 Binningen (CH). **GREEN, Luke** [GB/CH]; Oetlingerstrasse 52, CH-4057 Basel (CH). **HARTMANN, Guido** [DE/DE]; Hangstrasse 34, 79539 Loerrach (DE). **MAERKI, Hans P.** [CH/CH]; Seltisbergerstrasse 75, CH-4059 Basel (CH). **MATTEI, Patrizio** [CH/CH]; Doernliweg 33, CH-4125 Riehen (CH).

(74) Agent: **WASCHBUESCH, Klaus**; Grenzacherstrasse 124, CH-4070 Basel (CH).

(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.

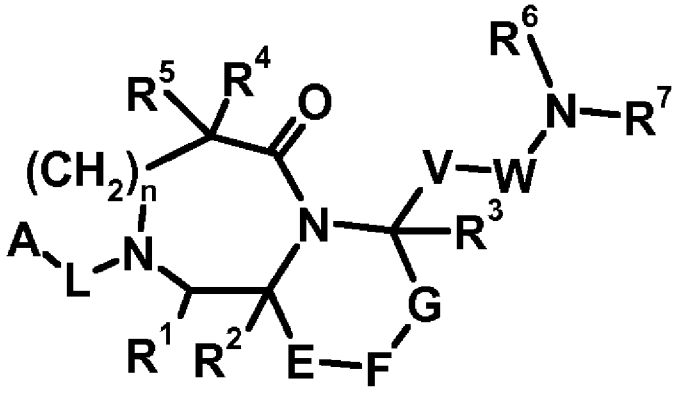
(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, 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))*

WO 2011/042399 A1

(54) **Title**: BICYCLIC HETEROCYCLES AND THEIR USE AS CCR2 RECEPTOR ANTAGONISTS



(I)

(57) **Abstract**: The invention is concerned with novel bicyclic compounds of formula (I), wherein A, L, E, F, G, R^1, R^2, R^3, R^4, R^5, R^6, R^7, V, W and n are as defined in the description and in the claims, as well as physiologically acceptable salts thereof. These compounds are antagonists of CCR2 receptor, CCR5 receptor and/or CCR3 receptor and can be used as medicaments.