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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
30 November 2006 (30.11.2006)

PCT

(10) International Publication Number
WO 2006/125784 A1

(51) International Patent Classification:
C07D 487/10 (2006.01) *A61P 29/00* (2006.01)
A61K 31/407 (2006.01) *A61P 37/08* (2006.01)

(21) International Application Number:
PCT/EP2006/062545

(22) International Filing Date: 23 May 2006 (23.05.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
05104428.7 24 May 2005 (24.05.2005) EP
60/688,631 8 June 2005 (08.06.2005) US

(71) Applicant *(for all designated States except US)*: **APPLIED RESEARCH SYSTEMS ARS HOLDING N.V.** [NL/NL]; Pietermaai 15, Curaçao (AN).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **SCHWARZ, Matthias** [CH/CH]; 53, rue des Paquis, CH-1201 Geneve (CH). **SEBILLE, Eric** [FR/FR]; Les Granges, F-01130 Le Poizat (FR). **CLEVA, Christophe** [FR/FR]; Chez les Maures, F-74250 La Tour (FR). **MERLOT, Cedric** [FR/FR]; 249, Rue du Fer a Cheval, F-74160 Collonges-sous-saleve (FR). **CHURCH, Dennis** [US/CH]; Chemin des Vignes 4, CH-1291 Commugny (CH). **PAGE, Patrick** [FR/FR]; Naxos, Les Cyclades, Avenue de Genève, F-74160 Saint-Julien-en-Genevois (FR). **MACRITCHIE, Jacqueline A.** [GB/GB]; 12 Morris Harp, Saffron Walden, Essex Essex CB10 2EE (GB). **ATHERALL, John Frederick** [GB/GB]; 10 The Dreys, Sewards End, Saffron Walden, Essex Essex CB10 2LL (GB). **CROSIGNANI, Stefano** [IT/FR]; 2, Chemin de Champs-Fusy, F-01630 St. Genis-Pouilly (FR). **PUPOWICZ, Doris** [DE/CH]; Avenue du Grand-Saleve 5, CH-1255 Veyrier (CH).

(74) Agent: **SERONO INTERNATIONAL S.A. INTELLECTUAL PROPERTY**; 12, Chemin Des Aulx, CH-1228 Plan-les-Ouates (CH).

(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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

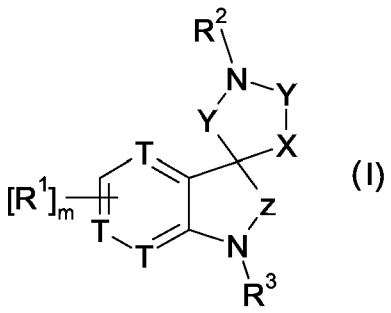
(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT,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

Declarations under Rule 4.17:
— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
— *of inventorship (Rule 4.17(iv))*

Published:
— *with international search report*

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: TRICYCLIC SPIRO DERIVATIVES AS CRTH2 MODULATORS



(I)

(57) Abstract: The present invention is related to the use of spiro derivatives of Formula (I) for the treatment and/or prevention of allergic diseases, inflammatory dermatoses and other diseases with an inflammatory component. Specifically, the present invention is related to the use of spiro derivatives for the modulation of CRTH2 activity.

WO 2006/125784 A1