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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
28 December 2006 (28.12.2006)

PCT

(10) International Publication Number
WO 2006/136304 A1

(51) International Patent Classification:
C07D 213/64 (2006.01) *A61P 9/00* (2006.01)
C07D 237/14 (2006.01) *A61P 11/00* (2006.01)
A61K 31/4412 (2006.01) *A61P 25/00* (2006.01)
A61K 31/50 (2006.01) *A61P 35/00* (2006.01)

(21) International Application Number:
PCT/EP2006/005578

(22) International Filing Date: 10 June 2006 (10.06.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10 2005 028 862.6 22 June 2005 (22.06.2005) DE

(71) Applicant *(for all designated States except US)*: **SANOFI-AVENTIS DEUTSCHLAND GMBH** [DE/DE]; Brüningstrasse 50, 65929 Frankfurt am Main (DE).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **BRENDEL, Joachim** [DE/DE]; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **ENGLERT, Heinrich, Christian** [DE/DE]; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **WIRTH, Klaus** [DE/DE]; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **WAGNER, Michael** [DE/DE]; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **RUXER, Jean-Marie** [FR/FR]; c/o Aventis Pharma, 13, quai Jules Guesde, F-94403 Vitry-sur-Seine Cedex (FR). **PILORGE, Fabienne** [FR/FR]; c/o Aventis Pharma, 13, quai Jules Guesde, F-94403 Vitry-sur-Seine Cedex (FR).

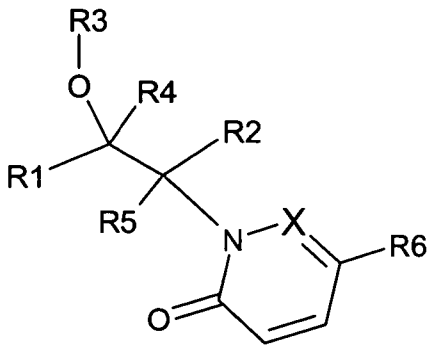
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, 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, RS, RU, SC, SD, SE, SG, SK, SL, SM, 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*

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: SUBSTITUTED HETEROCYCLES, THEIR USE AS MEDICAMENT, AND PHARMACEUTICAL PREPARATIONS COMPRISING THEM



(I)

(57) Abstract: The invention relates to compounds of the formula (I), in which R1 , R2, R3, R4, R5, R6 and X have the meanings stated in the claims. The compounds are particularly suitable as antiarrhythmic active ingredients, in particular for the treatment and prophylaxis of atrial arrhythmias, for example atrial fibrillation (AF) or atrial flutter.

WO 2006/136304 A1