

(19) World Intellectual Property Organization

International Bureau

WIPO

(43) International publication date

4 January 2001 (04.01.2001)

PCT

(10) International publication number

WO 01/00573 A1

(51) International patent classification⁷: C07C 311/16, C07D 295/22, C07C 311/20, 311/29, 311/21, C07D 217/02, C07C 311/39, A61K 31/18, 31/445

(21) International application number: PCT/EP00/05370

(22) International filing date: 10 June 2000 (10.06.2000)

(25) Language of filing: German

(26) Language of publication: German

(30) Data relating to the priority:
199 29 076.8 25 June 1999 (25.06.1999) DE

(71) Applicant: AVENTIS PHARMA DEUTSCHLAND
GMBH [DE/DE]; Brüningstrasse 50, D-65929 Frankfurt
(DE).

(72) Inventors: BRENDL, Joachim; Landgrabenstrasse 23,
D-61118 Bad Vilbel (DE). GERLACH, Uwe; Im Heideck 30,
D-65795 Hattersheim (DE). STILZ, Hans, Ulrich;
Johannesallee 18, D-65929 Frankfurt (DE). LANG, Hans
Jochen; Rüdesheimer Strasse 7, D-65719 Hofheim (DE).

(81) Designated states (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated states (*regional*): ARIPO-Patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI-Patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

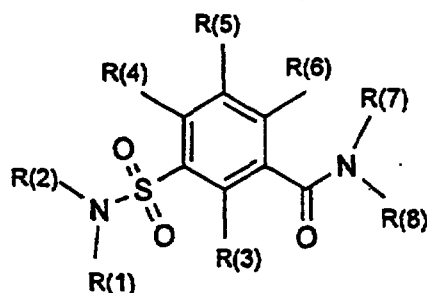
- With the International Search Report.

[continued on next page]

As printed

(54) Title: INDANYL-SUBSTITUTED BENZOLE CARBONAMIDE, METHOD FOR THE PRODUCTION OF THE SAME, USE THEREOF AS A MEDICAMENT AND PHARMACEUTICAL PREPARATIONS CONTAINING THE SAME

(54) Bezeichnung: INDANYLSUBSTITUIERTE BENZOLCARBONAMIDE, VERFAHREN ZU IHRER HERSTELLUNG, IHRE VERWENDUNG ALS MEDIKAMENT SOWIE SIE ENTHALTENDE PHARMAZEUTISCHE ZUBEREITUNGEN



of atrial arrhythmia, e.g. atrial fibrillation (AF) or atrial flutter.

(57) Abstract: The invention relates to compounds of formula (I), wherein R(1) to R(8) have the meanings given in the claims. Said compounds act upon the Kv1.5 potassium canal and inhibit a potassium flux, known as an "ultra-rapidly activating delayed rectifier" in the human atrium. The compounds are therefore particularly suitable for use as novel anti-arrhythmic active ingredients, in particular, for the treatment and prophylaxis

(57) Zusammenfassung: Verbindungen der Formel (I), in der R(1) bis R(8) die in den Ansprüchen angegebenen Bedeutungen haben, wirken auf den Kv1.5-Kalium-Kanal und inhibieren einen als "ultra-rapidly activating delayed rectifier" bezeichneten Kaliumstrom im humanen Herzvorhof. Sie sind deshalb ganz besonders geeignet als neuartige antiarrhythmische Wirkstoffe, insbesondere zur Behandlung und Prophylaxe von Vorhof-Arrhythmien, z.B. Vorhofflimmern (atriale Fibrillation, AF) oder Vorhofflattern (atriales Flattern).

For an explanation of the two-letter codes and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette.