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

(19) World Intellectual Property Organization
International Bureau

(43) International publication date
20 November 2003 (20.11.2003)

PCT

(10) International publication number
WO 03/095451 A1

(51) International patent classification[7]: C07D 471/04, A61K 31/506, A61P 9/02

(21) International application number: PCT/EP03/04304

(22) International filing date: 25 April 2003 (25.04.2003)

(25) Language of filing: German

(26) Language of publication: German

(30) Data relating to the priority:
102 20 570.1 8 May 2002 (08.05.2002) DE

(71) Applicant *(for all designated States except US)*: BAYER AKTIENGELLSCHAFT [DE/DE]; 51368 Leverkusen (DE).

(72) Inventors; and

(75) Inventors/Applicants *(US only)*: ALONSO-ALIJA, Cristina [ES/DE]; August-Macke-Weg 3, 42781 Haan (DE). BISCHOFF, Erwin [DE/DE]; Pahlkestr. 73, 42115 Wuppertal (DE). MÜNTER, Klaus [DE/DE]; Memeler Str. 54, 42489 Wülfrath (DE). STASCH, Johannes-Peter [DE/DE]; Alfred-Nobel-Str. 109, 42651 Solingen (DE). STAHL, Elke [DE/DE]; Reuterstr. 124, 51467 Bergisch Gladbach (DE). WEIGAND, Stefan [DE/DE]; Rückertweg 35, 42115 Wuppertal (DE). FEURER, Achim [DE/DE]; Erlbrunnenweg 5, 69259 Wilhelmsfeld (DE).

(74) Joint Representative: BAYER AKTIENGESELLSCHAFT; 51368 Leverkusen (DE).

(81) Designated states *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, 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, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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

Declaration under Rule 4.17:

- *As to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, 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, MK, MN, MW, MX, MZ, NI,*

[continued on next page]

As printed

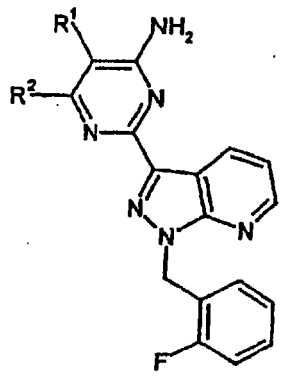
(54) Title: CARBAMATE-SUBSTITUTED PYRAZOLOPYRIDINES

(54) Bezeichnung: CARBAMAT-SUBSTITUIERTE PYRAZOLOPYRIDINE



162162

(57) Abstract: The invention relates to compounds of formula (I), wherein R^1 represents $-NR^3C(=O)OR^4$, R^2 represents hydrogen or NH_2, R^3 represents hydrogen or (C_1-C_4) alkyl and R^4 represents (C_1-C_6) alkyl, which stimulate soluble guanylate cyclase and to their production and use as medicaments, in particular as medicaments for treating cardiovascular disease and/or sexual dysfunction.



(I)

(57) Zusammenfassung: Die vorliegende Erfindung betrifft Verbindungen der Formel (I) (I) worin R^1 für $-NR^3C(=O)OR^4$ steht, R^2 für Wasserstoff oder NH_2 steht, R^3 für Wasserstoff oder (C_1-C_4)- Alkyl steht, R^4 für (C_1-C_6)- Alkyl steht, die die lösliche Guanylatcyclase stimulieren, ihre Herstellung und ihre Verwendung als Arzneimittel, insbesondere als Arzneimittel zur Behandlung von Herz-Kreislauf-Erkrankungen und/oder sexueller Dysfunktion.



G00002

WO 03/095451 A1

NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
- *With International Search Report.*

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.