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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
2 November 2006 (02.11.2006)

PCT

(10) International Publication Number
WO 2006/114401 A3

(51) International Patent Classification:
C07D 409/14 (2006.01) *C07D 207/14* (2006.01)
C07D 413/14 (2006.01) *C07D 207/12* (2006.01)
C07D 401/14 (2006.01) *A61K 31/4025* (2006.01)
C07D 513/04 (2006.01) *A61P 7/02* (2006.01)
C07D 207/16 (2006.01)

(21) International Application Number:
PCT/EP2006/061776

(22) International Filing Date: 24 April 2006 (24.04.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
05103452.8 27 April 2005 (27.04.2005) 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)*: **GROEBKE-ZBINDEN, Katrin** [CH/CH]; Laubibergstrasse 61, CH-4410 Liestal (CH). **HAAP, Wolfgang** [DE/DE]; Fridolin-Engel-Strasse 51, 79540 Loerrach (DE). **HILPERT, Hans** [CH/CH]; Gustav Bay-Strasse 34, CH-4142 Muenchenstein (CH). **PANDAY, Narendra** [FR/CH]; Gueterstrasse 213, CH-4053 Basel (CH). **RICKLIN, Fabienne** [FR/FR]; 6 Impasse Des Cerisiers, F-68490 Hombourg (FR). **WIRZ, Beat** [CH/CH]; Hubackerweg 10, CH-4153 Reinach (CH).

(74) Agent: **HEIROTH, Ulrike**; Grenzacherstrasse 124, CH-4070 Basel (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.

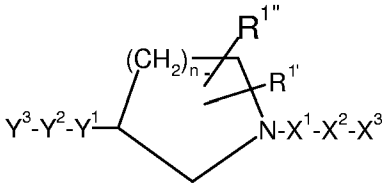
(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT,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

Published:
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
12 April 2007

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: NOVEL CYCLIC AMINES



(I)

(57) Abstract: The invention is concerned with novel cyclic amines of formula (I) wherein X^1 to X^3, Y^1 to Y^3, $R^{1'}$, $R^{1''}$ and n are as defined in the description and in the claims, as well as physiologically acceptable salts thereof. These compounds inhibit the coagulation factor Xa and can be used as medicaments.

WO 2006/114401 A3