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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 November 2008 (20.11.2008)

PCT

(10) International Publication Number
WO 2008/138754 A3

(51) International Patent Classification:
C07D 401/14 (2006.01) *A61P 7/02* (2006.01)
A61K 31/4412 (2006.01)

(21) International Application Number:
PCT/EP2008/055291

(22) International Filing Date: 30 April 2008 (30.04.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
07107956.0 10 May 2007 (10.05.2007) 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)*: **ADAM, Jean-Michel** [BE/FR]; 27, rue des Champs, F-68128 Rosenau (FR). **BUBENDORF, Andre** [FR/FR]; 35, rue du General Bethouard, F-68510 Uffheim (FR). **DEYNET-VUCENOVIC, Annette** [DE/DE]; Mauerstrasse 2, 79539 Loerrach (DE). **DOTT, Pascal** [FR/FR]; 18, rue des Erables, F-68170 Rixheim (FR). **GLOMME, Alexander** [DE/CH]; Riehenstrasse 5, CH-4127 Birsfelden (CH). **GRASSMANN, Olaf** [DE/DE]; Rebweg 14, 79540 Loerrach (DE). **HAAP, Wolfgang** [DE/DE]; Fridolin-Engel-Strasse 51, 79540 Loerrach (DE). **KUENTZ, Martin** [CH/CH]; Im Schaenzli 103b, CH-4132 Muttenz (CH). **MEIER, Roland** [CH/CH]; Roemerweg 12, CH-5028 Ueken (CH).

(74) Agent: **NIIZUMA, Yo**; Grenzacherstrasse 124, CH-4070 Basel (CH).

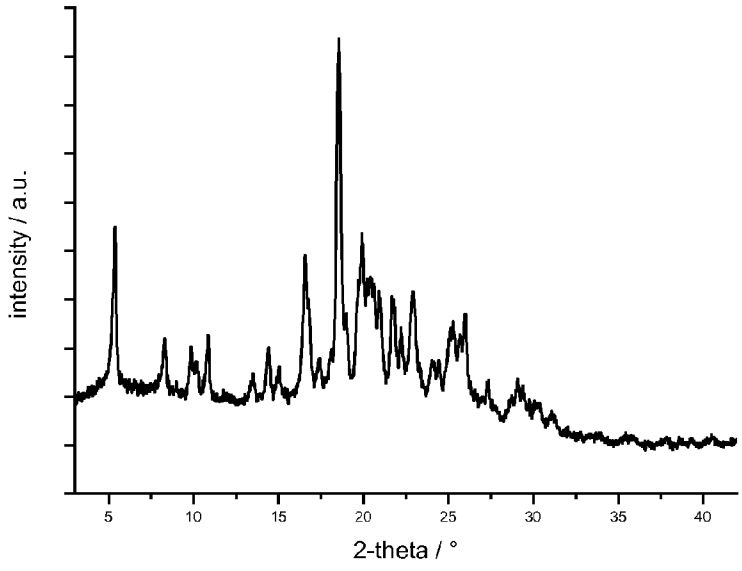
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, 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),

[Continued on next page]

(54) Title: NEW SOLID FORMS OF FXA INHIBITORS

FIGURE 1



(57) Abstract: The invention is concerned with crystalline forms or amorphous forms of a pyrrolidine- 3,4-dicarboxamide derivative, which is useful as an active ingredient of medicaments for the diseases which can be treated by the coagulation factor Xa inhibitors.

WO 2008/138754 A3

European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, 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:
22 January 2009