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

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
28 March 2002 (28.03.2002)

PCT

(10) International Publication Number
WO 02/024690 A2

(51) International Patent Classification[7]: C07D 413/14, 403/12, A61K 31/423, A61P 7/02

(21) International Application Number: PCT/US01/28406

(22) International Filing Date:
12 September 2001 (12.09.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/234,622 22 September 2000 (22.09.2000) US

(71) Applicant: **DUPONT PHARMACEUTICALS COMPANY** [US/US], Chestnut Run Plaza, 974 Centre Road, Wilmington, DE 19805 (US)

(72) Inventors: **LI, Hui-Yin**, 161 Thompson Drive, Hockessin, DE 19707 (US). **ANZALONE, Luigi**, 1096 Airport Road, West Chester, PA 19380 (US) **JIN, Fuqiang**, Apartment F9, 3120 Namans Road, Wilmington, DE 19810 (US). **MELONI, David, J.**, 34 Fantail Court, New Castle, DE 19720 (US) **SUN, Jung-Hui**, 149 Aintree Lane, Hockessin, DE 19707 (US). **TELEHA, Christopher, A.**, 216 Rice Drive, Bear, DE 19701 (US) **ZHOU, Jia, Cheng**; 567 Stenning Drive, Hockessin, DE 19707 (US) **SMYSER, Thomas, E.**, 28 Stonecrop Road, Wilmington, DE 19810 (US)

(74) Agent: **VANATTEN, Mary, K.**, Dupont Pharmaceuticals Company, Legal Patent Records Center, 1007 Market Street, Wilmington, DE 19898 (US)

(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, PH, 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, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

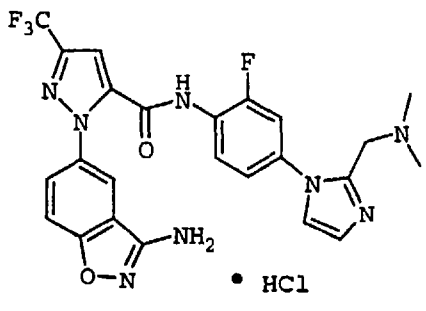
Published:
— *without international search report and to be republished upon receipt of that report*

(48) Date of publication of this corrected version:
8 August 2002

(15) Information about Correction:
see PCT Gazette No 32/2002 of 8 August 2002, Section II

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: EFFICIENT PROCESS FOR THE PREPARATION OF A FACTOR XA INHIBITOR



(I)

(57) Abstract: The present invention relates to the process for the preparation of the compound of Formula (I), from its corresponding 3-cyano-4-fluorophenyl-pyrazole and intermediates useful therein

WO 02/024690 A2

162162