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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
15 December 2011 (15.12.2011)

PCT

(10) International Publication Number
WO 2011/156464 A1

(51) International Patent Classification:
C07D 495/04 (2006.01) *A61P 35/00* (2006.01)
A61K 31/4365 (2006.01)

(21) International Application Number:
PCT/US2011/039591

(22) International Filing Date:
8 June 2011 (08.06.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/353,038 9 June 2010 (09.06.2010) US

(71) Applicant *(for all designated States except US)*: **ABBOTT LABORATORIES** [US/US]; 100 Abbott Park Road, Abbott Park, Illinois 60064 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **HOFFMAN, Doug, H.** [US/US]; 1519 Forever Avenue, Libertyville, Illinois 60048 (US). **MILLER, Jonathan** [US/US]; 1228 Meade Drive, Lindenhurst, Illinois 60046 (US). **ZHANG, Geoff, G., Z.** [US/US]; 1372 N. Maidstone Drive, Vernon Hills, Illinois 60061 (US).

(74) Agents: **STEELE, Susan, L.** et al.; Abbott Laboratories, 100 Abbott Park Road, AP6A-1/D0377, Abbott Park, Illinois 60064 (US).

(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, CL, 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, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

WO 2011/156464 A1

(54) Title: CRYSTALLINE FORMS OF KINASE INHIBITORS

(57) Abstract: Citrate salts of N-(4-{4-amino-7-[1-(2-hydroxyethyl)-1H-pyrazol-4-yl]thieno[3,2-c]pyridin-3-yl}phenyl)-N'-(3-fluorophenyl)urea and crystalline forms thereof are suitable pharmaceutical ingredients for pharmaceutical compositions useful in the treatment of disease, for example, cancer.