

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
3 April 2014 (03.04.2014)



(10) International Publication Number
WO 2014/052699 A9

(51) International Patent Classification:

C07D 471/04 (2006.01) *A61K 31/437* (2006.01)

C07D 519/00 (2006.01) *A61P 35/00* (2006.01)

(21) International Application Number:

PCT/US2013/062085

(22) International Filing Date:

27 September 2013 (27.09.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/707,340 28 September 2012 (28.09.2012) US

61/781,364 14 March 2013 (14.03.2013) US

(71) Applicants: **IGNYTA, INC.** [US/US]; 11111 Flintkote Avenue, San Diego, CA 92121 (US). **CANCER RESEARCH TECHNOLOGY LIMITED** [GB/GB]; Angel Building, 407 St. John Street, London EC1V 4AD (GB).

(72) Inventors: **BRESLIN, Henry, J.**; 974 Muhlenburg Drive, Lansdale, PA 19446 (US). **DORSEY, Bruce, D.**; 1213 Meetinghouse Road, Ambler, PA 19002 (US). **DUGAN, Benjamin, J.**; 437 Concord Road, Glen Mills, PA 19342 (US). **FOWLER, Katherine, M.**; Flat 3, 129 Queens Road, Caversham, Berkshire RG 8EF (GB). **HUDKINS, Robert, L.**; 430 S. Saddlebrook Circle, Chester Spring, PA 19425 (US). **MESAROS, Eugen, F.**; 113 Lombardy Drive, Wallingford, PA 19086 (US). **MONCK, Nathaniel, JT.**; 10 Park Crescent, Ascot, Berks SL5 OAX (GB). **MORRIS, Emma, L.**; 27 Playfield Close, Biggleswade,

Bedfordshire SG18 8JL (GB). **OLOWOYE, Ikeoluwa**; 14 The Terrace, Hemel Hempstead, Coterells HP1 1AZ (GB). **OTT, Gregory, R.**; 117 Wilton Woods Lane, Media, PA 19063 (US). **PAVE, Gregoire, A.**; Flat 322 Caraway Apt., 2, Curlew Street, London SE1 2PP (GB). **ROFFEY, Jonathan, R. A.**; 18 Filey Road, Reading, Berkshire RG1 3QQ (GB). **SOUDY, Christelle, N.**; 64 Hessel Road, London W13 9ET (GB). **TAO, Ming**; 1704 Brittany Drive, Maple Glen, PA 19002 (US). **ZIFCSAK, Craig, A.**; 7 Maple Street, Downingtown, PA 19335 (US). **ZULLI, Allison, L.**; 1020 Washington Place, Wayne, PA 19087 (US).

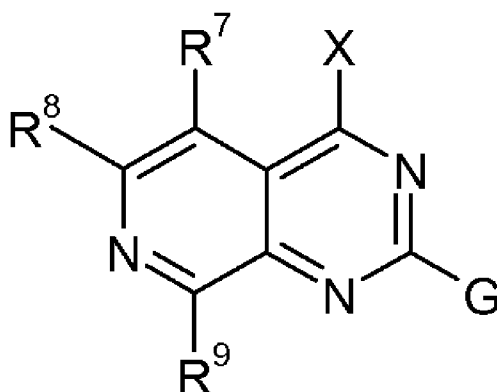
(74) Agents: **VALLA, S., Maurice** et al.; Baker & Hostetler LLP, Cira Centre, 12th Floor, 2929 Arch Street, Philadelphia, PA 19104-2891 (US).

(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, BN, 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, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, RW, SD, SL, SZ, TZ,

[Continued on next page]

(54) Title: AZAQUINAZOLINE INHIBITORS OF ATYPICAL PROTEIN KINASE C



(I)

(57) Abstract: The present invention provides a compound of formula (I) or a salt thereof, wherein R⁷, R⁸, R⁹, G, and X are as defined herein. A compound of formula (I) and its salts have a PKC inhibitory activity, and may be used to treat proliferative disorders.



UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, KM, ML, MR, NE, SN, TD, TG).

(48) Date of publication of this corrected version:

16 July 2015

(15) Information about Correction:

see Notice of 16 July 2015

Published:

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