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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
23 June 2016 (23.06.2016)

WIPO | PCT

(10) International Publication Number
WO 2016/100302 A3

(51) International Patent Classification:
A61K 31/55 (2006.01)

(21) International Application Number:
PCT/US2015/065755

(22) International Filing Date:
15 December 2015 (15.12.2015)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/092,764 16 December 2014 (16.12.2014) US

(71) Applicant: **CELGENE CORPORATION** [US/US]; 86 Morris Avenue, Summit, NJ 07901 (US).

(72) Inventors: **MAN, Hon-Wah**; 27 Grant Way, Princeton, NJ 08540 (US). **FITZPATRICK, Timothy, D.**; 13017 NE 100th Street, Kirkland, WA 98033 (US). **FRANK, Anthony**; 139 Clover Hollow Rd., Easton, PA 18045 (US). **LI, Ying**; 401 Briant Park Dr., Springfield, NJ 07081 (US). **LU, Xiaoling**; 3 Runnymede Court, Whippany, NJ 07981 (US). **BEAUCHAMPS, Marie, G.**; 8 Red Maple, Flanders, NJ 07836 (US). **FERRETTI, Antonio, C.**; 103 Park Avenue, Apt. 202E, Summit, NJ 07901 (US).

(74) Agents: **RIEGER, Dale L.** et al.; Jones Day, 250 Vesey Street, New York, NY 10281-1047 (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, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, 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, ST, SZ, TZ, 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).

Published:

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

(88) Date of publication of the international search report:
15 September 2016

(54) Title: SOLID FORMS COMPRISING (1E, 4E)-2-AMINO-N,N-DIPROPYL-8-(4-(PYRROLIDINE-1-CARBONYL)PHENYL)-3H-BENZO[B]AZEPINE-4-CARBOXAMIDE, COMPOSITIONS THEREOF, AND USES THEREOF

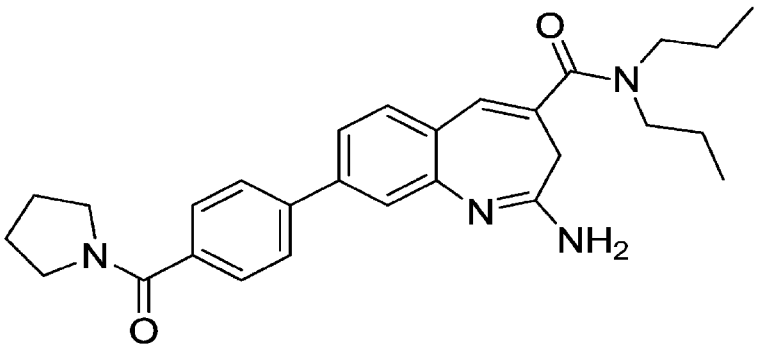


FIG. 1

(57) Abstract: Provided herein are compositions including the crystalline forms of (IE, 4E)-2- amino-N,N-dipropyl -8-(4-(pyrrol i dine-l -carbonyl) phenyl)-3H-benzo[b]azepine-4-carboxamide ("Compound A"), methods of making the crystalline forms, and methods of using the crystalline forms for the treatment of diseases, including, for example, cancer. Provided herein are crystalline forms of the compound having formula (I). ((1E,4E)-2-amino-N;N-dipropyl-8-(4-(pyrrolidine- 1 -carbonyl)phenyl)-3Hbenzo[b]azepine-4-carboxamide ("Compound A")). The crystalline form can be an unsolvated or solvated crystalline form of the compound of formula (I).

WO 2016/100302 A3