



(51) International Patent Classification:

A61K 9/14 (2006.01) *B02C 19/00* (2006.01)
A61K 31/40 (2006.01)

(21) International Application Number:

PCT/US2014/029489

(22) International Filing Date:

14 March 2014 (14.03.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/799,956 15 March 2013 (15.03.2013) US

(71) Applicant: PEARL THERAPEUTICS, INC. [US/US];
200 Saginaw Drive, Redwood City, California 94063 (US).

(72) Inventors: KAZMI, Ali; 1571 Vallejo Street, San Francisco, California 94109 (US). LECHUGA, David; 1879 Blossom Hill Road, San Jose, California 95124 (US). SNYDER, Herm; 308 Buchanan Drive, West Lafayette, Indiana 47906 (US). IVEY, James; 9215 99 Street Northwest, Edmonton, Alberta T6E 3W1 (CA). VEHRING, Reinhard; 10935 40A Avenue, Edmonton, Alberta T6J 0T1 (CA). SPECK, Jason, H.; 11394 Rolling Hills Drive, Dublin, California 94568 (US). DWIVEDI, Sarvajna; 409 Whisper Lane, Redwood City, California 94065 (US).

(74) Agents: WEBB, Samuel, E. et al.; Seed Intellectual Property Law Group PLLC, Suite 5400, 701 Fifth Avenue, Seattle, Washington 98104-7064 (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, 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, 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).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

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

(54) Title: METHODS AND SYSTEMS FOR CONDITIONING OF PARTICULATE CRYSTALLINE MATERIALS

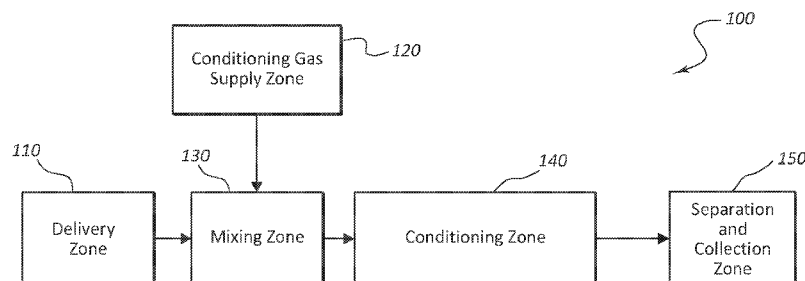


FIG. 1

(57) Abstract: Methods and systems for the preparation of conditioned micronized active agents. Additionally, methods and systems for in-process conditioning of micronized active agent particles and compositions comprising conditioned micronized materials.