

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
18 June 2020 (18.06.2020)



(10) International Publication Number
WO 2020/124054 A1

(51) International Patent Classification:

B65G 53/66 (2006.01) *F17C 7/00* (2006.01)
B67D 1/00 (2006.01) *F17C 9/02* (2006.01)
C01B 32/50 (2017.01) *F25J 1/00* (2006.01)
C01B 32/55 (2017.01)

(21) International Application Number:

PCT/US2019/066407

(22) International Filing Date:

13 December 2019 (13.12.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/779,020 13 December 2018 (13.12.2018) US

(71) Applicant: **CARBONCURE TECHNOLOGIES INC.**

[CA/CA]; 60 Trider Crescent, Dartmouth, Nova Scotia B3B 1R6 (CA).

(72) Inventors; and

(71) Applicants: **FORGERON, Dean** [CA/CA]; 13 Round Tuit Rd., White's Lake, Nova Scotia B3T1W2 (CA). **VICKERS, Brad** [CA/CA]; 21 Wyatt Rd., Bedford, Nova Scotia B4A1H4 (CA). **BURNS, Brandon** [CA/CA]; 66 Gilby

Cres., Beaverbank, Nova Scotia B4G 1E6 (CA). **BROWN, Josh** [CA/CA]; 28 Alpine Ave., Hamilton, Ontario L9A 1A5 (CA). **MONKMAN, Sean George** [CA/CA]; 2635 Dublin St., Halifax, Nova Scotia B3L3J6 (CA). **CAIL, Kevin** [US/US]; 5113 Redbriar Ct., Sarasota, Florida 34238 (US).

(74) Agent: **WITT, Eric** et al.; Storella & Witt, LLP, 2625 Alcatraz Avenue #197, Berkeley, California 94705 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available):

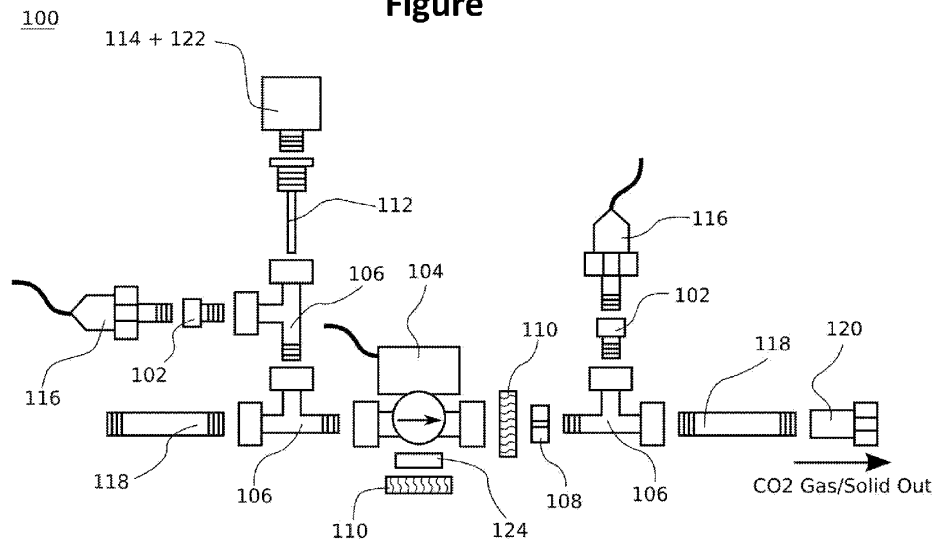
AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, 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,

(54) Title: METHODS AND COMPOSITIONS FOR DELIVERY OF CARBON DIOXIDE

Figure



(57) Abstract: Provided herein are methods, apparatus, and systems for delivering carbon dioxide as a mixture of solid and gaseous carbon dioxide to a destination.

[Continued on next page]

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))*
- *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))*