

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
30 June 2022 (30.06.2022)



(10) International Publication Number
WO 2022/140260 A1

(51) International Patent Classification:

B01D 53/18 (2006.01) **B01D 53/78** (2006.01)

B01D 53/62 (2006.01)

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).

(21) International Application Number:

PCT/US2021/064358

Published:

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

(22) International Filing Date:

20 December 2021 (20.12.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/128,483 21 December 2020 (21.12.2020) US

63/128,487 21 December 2020 (21.12.2020) US

(71) Applicant: **BLUE PLANET SYSTEMS CORPO-
RATION** [US/US]; 100 Cooper Court, Suite A, Los Gatos,
California 95032 (US).

(72) Inventors: **CONSTANTZ, Brent R.**; 100 Cooper Court,
Suite A, Los Gatos, California 95032 (US). **IN-
CATASCIATO, Joseph**; 100 Cooper Court, Suite A, Los
Gatos, California 95032 (US). **YOUNES, Mohamad El
Hajj**; 100 Cooper Court, Suite A, Los Gatos, California
95032 (US). **KANG, Seung-Hee**; 100 Cooper Court, Suite
A, Los Gatos, California 95032 (US). **SCHNEIDER, Ja-
cob**; 100 Cooper Court, Suite A, Los Gatos, California
95032 (US).

(74) Agent: **FIELD, Bret E.**; 201 Redwood Shores Parkway,
Suite 200, Redwood City, California 94065 (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, IT, 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, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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,

(54) Title: METHODS OF PRODUCING CURED CO₂ SEQUESTERING SOLID COMPOSITIONS, SYSTEMS FOR PRAC-
TICING THE SAME AND CURED CO₂ SEQUESTERING SOLID COMPOSITIONS PRODUCED THEREFROM

(57) Abstract: Methods of producing cured CO₂ sequestering solid compositions, e.g., precipitate or aggregate compositions, are provided. Aspects of the methods include preparing an initial CO₂ sequestering solid composition, and then contacting the initial composition with a curing liquid sufficient to produce a cured CO₂ sequestering solid composition. Also provided are systems for performing the methods and cured CO₂ sequestering solid compositions produced therefrom.

