

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
15 April 2021 (15.04.2021)



(10) International Publication Number
WO 2021/071980 A1

(51) International Patent Classification:

B28C 5/46 (2006.01) *B28C 7/04* (2006.01)
B28C 7/02 (2006.01)

(21) International Application Number:

PCT/US2020/054625

(22) International Filing Date:

07 October 2020 (07.10.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/911,871 07 October 2019 (07.10.2019) US

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

[CA/CA]; 42 Payzant Avenue, Dartmouth, Nova Scotia
B3B1Z6 (CA).

(72) Inventors; and

(71) Applicants: **HANMORE, Alex** [CA/CA]; 4 Horobin Drive,
Fall River, Nova Scotia B2T1E6 (CA). **MONKMAN,
George Sean** [CA/CA]; 2635 Dublin St., Halifax, Nova
Scotia B3L3J6 (CA). **SANDBERG, Paul J.** [US/US];
1260 Acadia Road, Venice, Florida 34293 (US). **FORG-**

ERON, Dean Paul [CA/CA]; 13 Round Tuit Rd., White's
Lake, Nova Scotia B3T1W2 (CA). **CAIL, Kevin** [US/US];
5113 Redbriar Ct., Sarasota, Florida 34238 (US). **JANKE,
Travis Aaron** [CA/CA]; 20 Windsor Drive, Stouffville,
Ontario L4A 2Y6 (CA).

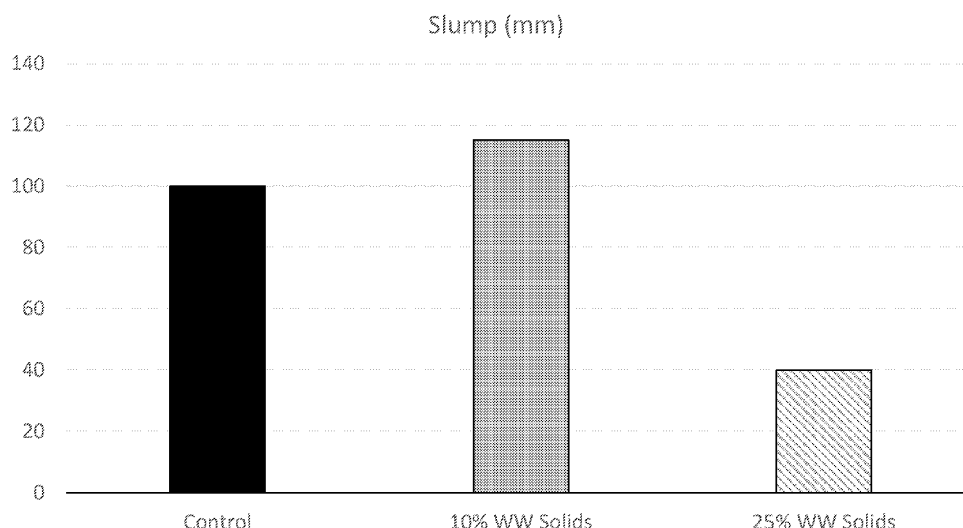
(74) Agent: **WITT, Eric** et al.; Storella & Witt, LLP, 2625 Al-
catraz Avenue #197, Berkeley, California 94705 (US).

(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, 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,

(54) Title: METHODS AND COMPOSITIONS FOR TREATMENT OF CONCRETE RECLAIMED WATER

Figure 1



(57) Abstract: Provided herein are compositions and methods for carbonating wash water (reclaimed water) produced in the manufacture and use of concrete, and subsequent uses of the carbonated reclaimed water, including its use in production and use of further batches of concrete.

[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).

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))*