



(51) International Patent Classification:
C04B 7/42 (2006.01) C04B 7/24 (2006.01)

(21) International Application Number:
PCT/CA2023/051157

(22) International Filing Date:
31 August 2023 (31.08.2023)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/456,636 03 April 2023 (03.04.2023) US

(71) Applicant: ENVICORE INC. [CA/CA]; 253147
Bears paw Rd, Calgary, Alberta T3L 2P7 (CA).

(72) Inventors: PANDEY, Aseem; 253147 Bears paw Rd, Cal-
gary, Alberta T3L 2P7 (CA). SHAMIM, Shahrulkh;
253147 Bears paw Rd, Calgary, Alberta T3L 2P7 (CA).

(74) Agent: SMART & BIGGAR LP; 1900-550 Burrard Street,
Vancouver, British Columbia V6C 3A8 (CA).

(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, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,
KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,
MA, MD, MG, MK, MN, MU, 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, CV,
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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,

(54) Title: COMPOSITIONS FOR SUPPLEMENTARY CEMENTITIOUS MATERIAL AND METHODS OF MAKING

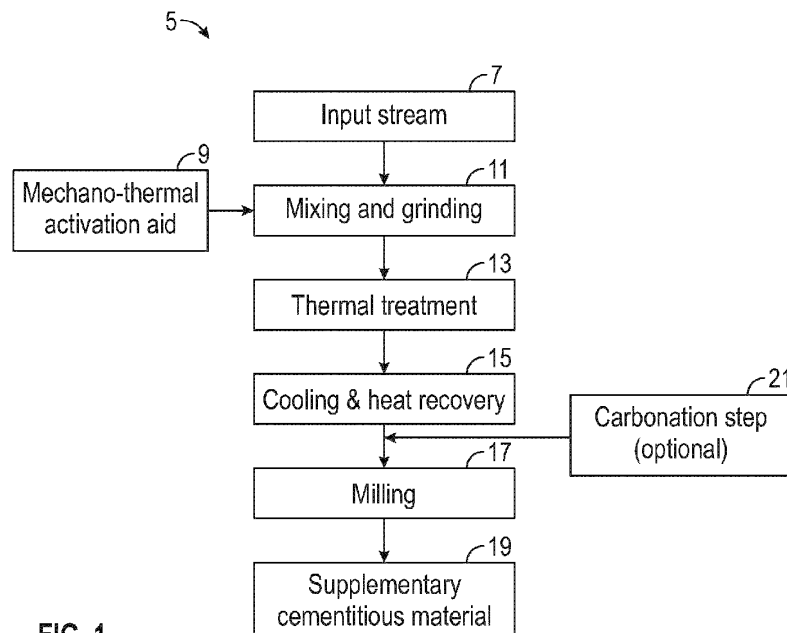


FIG. 1

(57) Abstract: A method for producing supplementary cementitious material ("SCM"). The method comprises: contacting an input stream with a mechano-thermal activation aid; thermally treating the input stream to form a thermally treated input stream; and cooling the thermally treated input stream and obtaining supplementary cementitious material. The method may further comprise carbonating the thermally treated input stream. A composition comprising a calcium silicate hydrate bond; a supplementary cementitious material; and a mechano-thermal activation aid. The composition may further comprise a carbonate.

LU, LV, MC, ME, 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:

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*
— *in black and white; the international application as filed
contained color or greyscale and is available for download
from PATENTSCOPE*