

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
07 April 2022 (07.04.2022)



(10) International Publication Number
WO 2022/072779 A1

(51) International Patent Classification:

C04B 7/153 (2006.01) C04B 28/08 (2006.01)
C04B 7/17 (2006.01) C04B 40/00 (2006.01)

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

(21) International Application Number:

PCT/US2021/053092

Published:

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

(22) International Filing Date:

01 October 2021 (01.10.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/086,627 02 October 2020 (02.10.2020) US

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(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,
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).

(54) Title: EARLY STRENGTH SLAG-BASED CEMENTITIOUS BINDER

(57) Abstract: The present invention provides exemplary method and additive for making cementitious binders that comprise primarily ground granulated blast furnace slag (GGBFS) having excellent strength at 24 hours, with preferably little or minimal amounts of Ordinary Portland Cement (OPC). As OPC manufacture involves carbon dioxide release into the atmosphere, the use of a GGBFS-based binder composition will help to enhance sustainability practices in the construction industry and minimizing strength losses implied by deletion of OPC. Strength in the GGBFS binder composition is enhanced by an alkaline-earth activator in combination with a strength enhancing component comprising dispersant and secondary activator.



WO 2022/072779 A1