

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number

WO 2021/202142 A9

(43) International Publication Date
07 October 2021 (07.10.2021)

WIPO | PCT

(51) International Patent Classification:

C23C 24/08 (2006.01) C23C 28/04 (2006.01)
C09D 1/02 (2006.01) C04B 28/26 (2006.01)
C09D 5/10 (2006.01) C04B 28/34 (2006.01)

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))

(21) International Application Number:

PCT/US2021/023455

(22) International Filing Date:

22 March 2021 (22.03.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

16/834,728 30 March 2020 (30.03.2020) US

Published:

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

(88) Date of publication of the international search report:

28 October 2021 (28.10.2021)

(48) Date of publication of this corrected version:

16 December 2021 (16.12.2021)

(71) Applicant: PRAXAIR S.T. TECHNOLOGY, INC.

[US/US]; 441 Sackett Point Road, North Haven, CT 06473
(US).

(15) Information about Correction:

see Notice of 16 December 2021 (16.12.2021)

(72) Inventors: **BELOV, Irina**; 9402 Greenthread Lane,
Zionsville, IN 46077 (US). **LEWIS, Thomas, F.**; 345 W.
Cedar Street, Zionsville, IN 46077 (US).

(74) Agent: **DALAL, Nilay, S.** et al.; Linde Inc., 10 Riverview
Drive, Danbury, CT 06810 (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,
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: CHROMATE-FREE CERAMIC COMPOSITIONS WITH REDUCED CURING TEMPERATURE

(57) Abstract: Hexavalent chromium-free slurries are provided that are capable of achieving a full cure at temperatures as low as 330 - 450 degrees F, thus making the coatings especially suitable for application on temperature sensitive base materials. The slurries are suitable in the production of protective coating systems formed by novel silicate-based basecoats that are sealed with novel phosphate-based topcoats. The coating systems exhibit acceptable corrosion and heat resistance and are capable of replacing traditional chromate-containing coating systems.

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