



(51) International Patent Classification:
C04B 35/573 (2006.01)

(21) International Application Number:

PCT/US2008/081555

(22) International Filing Date:

29 October 2008 (29.10.2008)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

11/927,326 29 October 2007 (29.10.2007) US

(71) Applicant (for all designated States except US): **SAINT-GOBAIN CERAMICS & PLASTICS, INC.** [US/US];
One New Bond Street, Worcester, Massachusetts
01615-0138 (US).

(72) Inventors: **HAERLE, Andrew, G.**; 34 Manchaug Road,
Sutton, Massachusetts 01590 (US). **PERRY, Edward,
A.**; 55 Brookview Terrace, Lunenburg, Massachusetts
01462 (US).

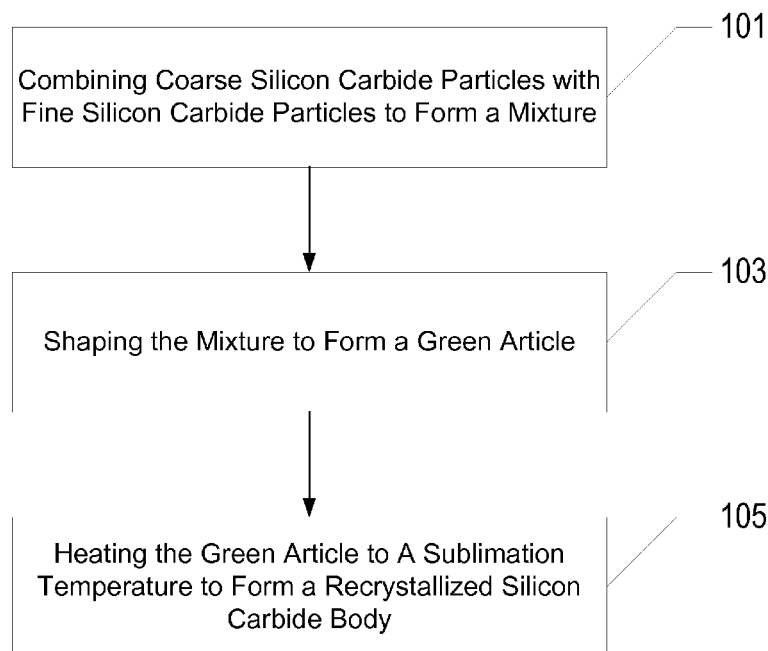
(74) Agents: **LARSON NEWMAN ABEL & POLANSKY,
LLP** et al.; 5914 West Courtyard Drive, Suite 200,
Austin, Texas 78730 (US).

(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, BR, BW, BY, BZ,
CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ,
EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,
NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG,
SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI

[Continued on next page]

(54) Title: HIGH RESISTIVITY SILICON CARBIDE



(57) Abstract: A recrystallized silicon carbide body is provided that has a resistivity of not less than about $1E5 \Omega \text{ cm}$ and a nitrogen content comprising nitrogen atoms bonded within the body, wherein the nitrogen content is not greater than about 200 ppm.

FIG. 1



(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG).

— *before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))*

Published:

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

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

26 November 2009