

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 June 2007 (07.06.2007)

PCT

(10) International Publication Number
WO 2007/064777 A3

(51) International Patent Classification:
H01M 2/08 (2006.01)

(21) International Application Number:
PCT/US2006/045813

(22) International Filing Date:
30 November 2006 (30.11.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/742,042 2 December 2005 (02.12.2005) US

(71) Applicant (for all designated States except US): **ENTEGRIS, INC.** [US/US]; 3500 LYMAN BOULEVARD, Chaska, MN 55318 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **EXTRAND, Charles, W.** [US/US]; 408 EAST MINNEHAHA PARKWAY, Minneapolis, MN 55419 (US).

(74) Agents: **PILLION, John, E.** et al.; ENTEGRIS, INC., 129 Concord Road, Billerica, MA 01821-4600 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, 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, LV, LY, MA, MD, 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, 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, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
13 December 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: LOW IMPURITY ELASTOMERIC MATERIAL

(57) Abstract: Embodiments of the present invention include cured elastomeric materials of high purity, compositions for making them, and articles comprising the cured elastomeric materials. Embodiments of the invention include cured elastomers that have less than 200 ng/cm² of calcium. In some embodiments, the cured elastomer is made from cross linked ethylene-propylene-diene terpolymers and can be free from cross linked fluoropolyelastomers or silicone elastomers. The cured elastomers in embodiments of the present invention may be used for seals including o-rings and gaskets.



WO 2007/064777 A3