

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
20 July 2006 (20.07.2006)

PCT

(10) International Publication Number
WO 2006/076026 A2

(51) International Patent Classification: Not classified

(21) International Application Number:
PCT/US2005/017139

(22) International Filing Date: 16 May 2005 (16.05.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/573,214 21 May 2004 (21.05.2004) US

(71) Applicant (for all designated States except US): GENERAL ELECTRIC COMPANY [US/US]; (A New York Corporation), 1 River Road, Schenectady, NY 12345 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): TEUTSCH, Erich, Otto [US/US]; 488 Summit Road, Richmond, MA 01254 (US). DAVIS, Scott, Michael [US/US]; 111 Stratford Avenue, Pittsfield, MA 01201 (US). DAVID, Benny, Ezekiel [US/US]; 12 Spruce Street, Great Barrington, MA 01230 (US). SOWLE, Daniel, Wardell [US/US]; 4700 Nation Road, Mount Vernon, IN 47620 (US). MYERS, Randall, Todd [US/US]; 13 Kathy Way, Pittsfield, MA 01201 (US). KENNEDY, Todd, R. [US/US]; 301 Summit Drive, Abbottstown, PA 17301 (US). KIPP, Roger, Charles [US/US]; 5341 Wool Mill Road, Glenville, PA 17329 (US). CARBAUGH, Tim, P. [US/US]; 792 Baltimore Street, Hanover, PA 17331 (US). FOERSTER, Peter, C. [US/US]; 110 Dogwood Court, New Oxford, PA 17350 (US).

(74) Agents: GNIBUS, Michael et al.; GENERAL ELECTRIC COMPANY, 3135 Easton Turnpike (w3c), Fairfield, CT 06828 (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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, 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).

Declarations under Rule 4.17:

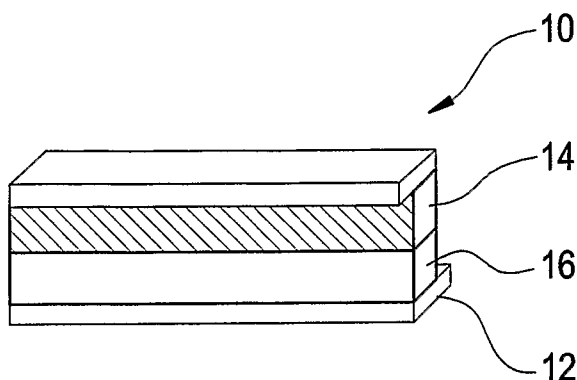
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- without international search report and to be republished upon receipt of that report

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: GEL COATED REINFORCED COMPOSITE



(57) Abstract: A method of forming a gel coated article, the method comprises thermoforming a reinforced thermoplastic substrate sheet into a desired shape wherein the resulting desired shape having a residual void content at least at the surface thereof. The desired shape is molded together with a gel coating material to form an adherent bond between said gel coating material and the desired shape wherein said gel coating material permeates into the desired shape and is cured to form a mechanical bond therewith.

WO 2006/076026 A2