

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 October 2006 (26.10.2006)

PCT

(10) International Publication Number
WO 2006/113836 A1

(51) International Patent Classification:
C09D 127/00 (2006.01) *C08J 7/00* (2006.01)

(74) Agent: FAIR, Tamera, L.; E. I. du Pont de Nemours and Company, Legal Patent Records Center, 4417 Lancaster Pike, Wilmington, Delaware 19805 (US).

(21) International Application Number:
PCT/US2006/014804

(22) International Filing Date: 19 April 2006 (19.04.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2005-120460 19 April 2005 (19.04.2005) JP
Not furnished 19 April 2006 (19.04.2006) 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, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, 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, 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).

(71) Applicants (for all designated States except US): DUPONT-MITSUI FLUOROCHEMICALS COMPANY, LTD. [JP/JP]; Chiyoda Building, 5-18, Sarugaku-cho 1-chome, Chiyoda-ku, Tokyo 101-0064 (JP). E. I. DU PONT DE NEMOURS AND COMPANY [US/US]; 1007 Market Street, Wilmington, Delaware 19898 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SASAKI, Tomohito [JP/JP]; 5-33-203 Konan-cho, Shimizu-ku, Shizuoka-shi, Shizuoka 424-0914 (JP). TAKADA, Matsunori [JP/JP]; 3-3-14 Mochimune, Suruga-ku, Shizuoka-shi, Shizuoka 421-0122 (JP).

Published:

— with international search 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: FLUORORESIN COATING FILM

(57) Abstract: A fluororesin coating film for improved permeation resistance that maintains excellent wear resistance and also products containing such film. The fluororesin coating has at least two layers that are formed on a substrate where at least one of the layers contains filler with a new Mohs hardness of ≥ 7 and a tetrafluoroethylene-perfluoro (alkyl vinyl ether) copolymer and tetrafluoroethylene-perfluoro (alkyl vinyl ether) copolymer layer directly below the layer described above.

WO 2006/113836 A1