

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
2 April 2009 (02.04.2009)

PCT

(10) International Publication Number
WO 2009/041977 A1

(51) International Patent Classification:
C09D 5/08 (2006.01) *C09D 175/16* (2006.01)
C09D 139/04 (2006.01)

(74) Agents: **PALLADINO, Donald R.** et al.; PPG Industries, Inc., One PPG Place, Pittsburgh, Pennsylvania 15272 (US).

(21) International Application Number:
PCT/US2007/079879

(22) International Filing Date:
28 September 2007 (28.09.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/862,280 27 September 2007 (27.09.2007) US

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, 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, 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, MT, 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) Applicant (*for all designated States except US*): **PPG INDUSTRIES OHIO, INC.** [US/US]; 3800 West 143rd Street, Cleveland, Ohio 44111 (US).

(72) Inventors: **MILLERO, Edward R., Jr.**; 3138 Seneca Court, Gibsonia, Pennsylvania 15044 (US). **SPEHAR, Jean Marc**; 432, rue de Goeulzin, F-59552 Lambres Lez Douai (FR). **FASCELLA, Guillaume**; 11 rue d'Artres, F-59990 Maresches (FR).

Published:
— with international search report

(54) Title: COATING COMPOSITIONS EXHIBITING CORROSION RESISTANCE PROPERTIES AND METHODS OF COIL COATING

(57) Abstract: Disclosed are coating compositions exhibiting corrosion resistance properties. These compositions include a non-chrome corrosion resisting filler and a radiation curable film-forming binder comprising an unsaturated monomer comprising a nitrogen-containing cyclic structure and one ethylenically unsaturated double bond. Also disclosed are methods for roll coating a metal coil.



WO 2009/041977 A1