(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 July 2008 (03.07.2008)

PCT

(10) International Publication Number
WO 2008/078849 A1

(51) International Patent Classification:
C08L 101/00 (2006.01)

(21) International Application Number:
PCT/KR2006/005856

(22) International Filing Date:
28 December 2006 (28.12.2006)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2006-0132286
22 December 2006 (22.12.2006) KR

(71) Applicant *(for all designated States except US)*: **CHEIL INDUSTRIES INC.** [KR/KR]; 290, Gongdan-dong, Gumi-si,, Gyeongsangbuk-do 730-710 (KR).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **KIM, Tae Kyun** [KR/KR]; #105-805, Bonereu Village, 778 Gojan-dong, Danwon-gu, Ansan-si, Gyeonggi-do 425-020 (KR). **LEE, Young, sil** [KR/KR]; #936-1402, Lotte Myohyang Apt., Sanbon-dong, Gunpo-si, Gyeonggi-do 435-040 (KR). **CHANG, Young Kyu** [KR/KR]; #104-1003, Jugong Apt., 849-1 Jaegoong-dong, Gunpo-si, Gyeonggi-do, 435-055 (KR).

(74) Agent: **AJU INTERNATIONAL LAW & PATENT GROUP**; 12th Floor, Poonglim Building, 823-1, Yeoksam-dong, Gangnam-gu, Seoul 135-784 (KR).

(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, 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*

WO 2008/078849 A1

(54) Title: ELECTROCONDUCTIVE THERMOPLASTIC RESIN COMPOSITION AND PLASTIC ARTICLE

(57) Abstract: Disclosed herein are an electrically conductive thermoplastic resin composition and a plastic article. The electrically conductive thermoplastic resin composition comprises 80 to 99.9 parts by weight of a thermoplastic resin, 0.1 to 10 parts by weight of carbon nanotubes, 0.1 to 10 parts by weight of an impact modifier, based on a total of 100 parts by weight of the thermoplastic resin and the carbon nanotubes, and 0.1 to 10 parts by weight of conductive metal oxide, based on a total of 100 parts by weight.of the thermoplastic resin and the carbon nanotubes.