

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 September 2004 (10.09.2004)

PCT

(10) International Publication Number
WO 2004/076513 A3

(51) International Patent Classification⁷: **C08G 63/88**, 63/78, 63/90

(21) International Application Number:
PCT/US2004/005920

(22) International Filing Date: 24 February 2004 (24.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/449,759 25 February 2003 (25.02.2003) US

(71) Applicant (for all designated States except US): **INVISTA TECHNOLOGIES S.A.R.L.** [US/US]; Intellectual Property Record Center, 4417 Lancaster Pike, CRP 722/1032, Wilmington, DE 19805 (US).

(71) Applicant and

(72) Inventor: **MCDONNELL, Finbar, Gerald** [GB/GB]; 57 Falcon Way, Guisborough, Cleveland TS14 8 HT (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HAMILTON, Clive, Alexander** [GB/GB]; 15 The Paddock, Stokesley North, Yorkshire (GB). **COOTE, Alexander, Stuart** [GB/GB]; 15 Meath Way, Guisborough, Cleveland TS14 7PG (GB).

(74) Agent: **KRUKIEL, Charles, E.**; E. I. Du Pont De Nemours and Company, Legal Patent Records Center, 4417 Lancaster Pike, Wilmington, DE 19805 (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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, 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, 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, IT, LU, MC, NL, 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:
16 December 2004

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: PROCESS FOR THE MANUFACTURE OF POLYESTER VIA HYDROGENATION TREATMENT OF RECYCLED DIOL

(57) Abstract: An improved process for recycling unspent diol removed from a polyester manufacturing process wherein the diol is captured, hydrogenated, and recycled so that the final polyester product has improved color over polyesters produced using other recycled diols.



WO 2004/076513 A3