

A1

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

(19) World Intellectual Property Organization
International Bureau



G00002

(43) International Publication Date
14 February 2002 (14.02.2002)

PCT

(10) International Publication Number
WO 02/12370 A1

- (51) International Patent Classification⁷: **C08G 65/44**
- (21) International Application Number: **PCT/US01/18202**
- (22) International Filing Date: **6 June 2001 (06.06.2001)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
09/635,040 **4 August 2000 (04.08.2000)** **US**
- (71) Applicant: **GENERAL ELECTRIC COMPANY**
[US/US]; 1 River Road, Schenectady, NY 12345 (US).
- (72) Inventors: **BRAAT, Adrianus, J., F., M.**; Krekeberg 17,
NL-4708 KR Roosendaal (NL). **INGELBRECHT, Hugo,**
Gerard, Eduard; Nieuwe Heikant 13, B-2910 Essen (BE).
- (74) Agents: **SNYDER, Bernard** et al.; General Electric Com-
pany, 3135 Easton Turnpike W3C, Fairfield, CT 06431
(US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,
DE, DK, DM, DZ, EE, 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,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,
CG, CI, CM, GA, GN, 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*
- For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

WO 02/12370 A1



162162

(54) Title: **PREPARATION OF HIGH INTRINSIC VISCOSITY POLY(ARYLENE ETHER) RESINS**

(57) Abstract: Poly(arylene ether) resins having intrinsic viscosities greater than about 0.8 dL/g are produced in the reaction of a phenol with oxygen in the presence of an organic solvent and a metal complex catalyst, the phenol concentration being about 5 to about 15 weight percent of the sum of phenol and solvent, and the molar ratio of metal in the metal complex catalyst to the phenol being about 1:100 to about 1:200.