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(21) International Application Number: PCT/US00/09945 (22) International Filing Date: 13 April 2000 (13.04.00) (30) Priority Data: 60/132,968 7 May 1999 (07.05.99) US (71) Applicant: THE DOW CHEMICAL COMPANY [US/US]; 2030 Dow Center, Midland, MI 48674 (US). (72) Inventors: PIKE, William, C.; 2816 Ronan Street, Midland, MI 48642 (US). PRIDDY, Duane, B.; 6004 Camelot Court, Midland, MI 48640 (US). ROE, James, M.; 4608 Forestview Drive, Midland, MI 48642 (US). REGO, Jose, M.; Vlasstraat 31, Heikant, NL-Hulst (NL). (74) Agent: ZETTLER, Lynn, M.; Intellectual Property, P.O. Box 1967, Midland, MI 48641-1967 (US).		(81) Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i>
(54) Title: AN IMPROVED PROCESS FOR PRODUCING HIGH MOLECULAR WEIGHT MONOVINYLDENE AROMATIC POLYMERS AND POLYMODAL COMPOSITIONS (57) Abstract The present invention is an improved process for producing high molecular weight monovinylidene aromatic polymers and polymodal compositions by free radical polymerization of a vinyl aromatic monomer in the presence of a vinyl acid, wherein the improvement comprises neutralizing the acid after production of the desired amount of high molecular weight monovinylidene aromatic polymer by adding a base.		

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