



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C08F 257/02, C08J 9/18, C08F 12/00		A1	(11) International Publication Number: WO 00/61648
			(43) International Publication Date: 19 October 2000 (19.10.00)
(21) International Application Number: PCT/GB00/01335 (22) International Filing Date: 10 April 2000 (10.04.00) (30) Priority Data: 9908164.8 9 April 1999 (09.04.99) GB 0007006.0 22 March 2000 (22.03.00) GB (71) Applicant (for GB only): COCKBAIN, Julian [GB/GB]; Frank B Dehn & Co., 179 Queen Victoria Street, London EC4V 4EL (GB). (71) Applicant (for all designated States except US): DYNO SPECIALTY POLYMERS AS [NO/NO]; Svellevæien, N-2001 Lillestrøm (NO). (72) Inventors; and (75) Inventors/Applicants (for US only): NORDAL, Rolf [NO/NO]; Snekkerstuveien 32, N-2020 Skedsmokorset (NO). TØGERSEN, Svein [NO/NO]; Stottumveien 1B, N-1170 Oslo (NO). MØRK, Preben, Cato [NO/NO]; Selsbakk Øvre 42, N-7027 Trondheim (NO). (74) Agents: COCKBAIN, Julian et al.; Frank B. Dehn & Co., 179 Queen Victoria Street, London EC4V 4EL (GB).		(81) Designated States: AE, AG, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, DZ, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR (Utility model), 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, SK (Utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, 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 With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.	
(54) Title: PREPARATION OF POLYMER PARTICLES			
(57) Abstract			
The invention provides a process for the preparation of polymer particles having a mode particle size of at least 50 µm which process comprises (a) obtaining a first particulate polymer seed material having a mode particle diameter of no more than 50 µm; (b) using said first seed material, performing a suspension polymerization involving the steps: (i) forming an aqueous dispersion comprising a polymer seed material, an organic compound (e.g. a polymerization initiator) which has a molecular weight of less than 5000 Daltons and a water solubility of less than 10⁻² g/L at 25 °C, a stabilizer and optionally an organic solvent (e.g. acetone or a portion of the monomer mentioned below); (ii) allowing said organic compound to diffuse into the seed material to produce an activated seed material; and (iii) contacting said activated seed material with a monomer (e.g. styrene) and with a polymerization initiator and effecting suspension polymerization thereof and (c) optionally impregnating and/or heat treating and/or surface modifying the particulate product of step (b).			