

**PCT**WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: C08F 10/00, 4/80	A1	(11) International Publication Number: WO 99/50318 (43) International Publication Date: 7 October 1999 (07.10.99)
(21) International Application Number: PCT/US99/06769 (22) International Filing Date: 29 March 1999 (29.03.99) (30) Priority Data: 60/080,018 30 March 1998 (30.03.98) US 60/117,471 27 January 1999 (27.01.99) US (71) Applicant (for all designated States except US): E.I. DU PONT DE NEMOURS AND COMPANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): BENNETT, Alison, Mar- garet, Anne [GB/US]; 507 Falkirk Road, Wilmington, DE 19803 (US). COUGHLIN, Edward, Bryan [US/US]; Apart- ment E, 2227 Prior Road, Wilmington, DE 19809 (US). CITRON, Joel, David [US/US]; 2003 Ferndale Drive, Wilm- ington, DE 19810 (US). WANG, Lin [CN/US]; 112 Brook Run, Hockessin, DE 19707 (US). (74) Agent: EVANS, Craig, H.; E.I. du Pont de Nemours and Company, Legal Patent Records Center, 1007 Market Street, Wilmington, DE 19898 (US).		(81) Designated States: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HR, HU, ID, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, 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: POLYMERIZATION OF OLEFINS (57) Abstract Mixtures of different polyolefins may be made by direct, preferably simultaneous, polymerization of one or more polymerizable olefins using two or more transition metal containing active polymerization catalyst systems, at least one of which contains cobalt or iron complexed with selected ligands. The polyolefin products may have polymers that vary in molecular weight, molecular weight distribution, crystallinity, or other factors, and are useful as molding resins and for films.		



162162



G00002