

PCT

200002777-1 1POS
WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : B01J 31/00, 37/00, C08F 4/02, 4/60, C07F 5/06		A1	(11) International Publication Number: WO 99/30820 (43) International Publication Date: 24 June 1999 (24.06.99)
(21) International Application Number: PCT/US98/24443 (22) International Filing Date: 17 November 1998 (17.11.98) (30) Priority Data: ① 08/993,167 ✓ 18 December 1997 (18.12.97) ✓ US (71) Applicant: ① MOBIL OIL CORPORATION / [US/US]; 3225 Gallows Road, Fairfax, VA 22037 (US). (72) Inventor: ① KISSIN, Yury Viktorovich, 35 Pine Ridge Drive, East Brunswick, NJ 08816-1623 (US). (74) Agents: SANTINI, Dennis, P. et al.; Mobil Oil Corporation, 3225 Gallows Road, Fairfax, VA 22037 (US).		(81) Designated States: AU, CA, JP, KR, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report. / 1 PD. 1 appl ⁿ : (changed name, see PF23 of 4/9/01) 1 INV. IPC : B01J 31/00, 37/00, 2 C08F 4/02, 4/60, 10/6/99 C07F 5/06.	
(54) Title: CATALYST SYSTEMS FOR OLEFIN POLYMERIZATION BASED ON METALLOCENE COMPLEXES AND OLIGOALKYLALUMINATES WITH STERICALLY HINDERED ALKYL GROUPS AS COCATALYSTS ✓			
(57) Abstract A catalyst composition comprising a metallocene of a group 4 metal and an alumoxane is disclosed. The alumoxane is composed of both methylalumoxane and bulky alkoxyalumoxane monomers in the same polymeric alumoxane compound. Examples of the bulky alkoxy group of the alumoxane include di- and trisubstituted aliphatic carbon atoms, e.g., triphenylmethoxy, diphenylmethoxy, 1,3,3-trimethyl-2-norbornanyloxy. These mixed alumoxanes are made by either reacting MAO with the corresponding bulky alcohol, or by reacting the bulky alcohol with TMA followed by hydrolysis.			