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(21) International Application Number: PCT/US98/24441 (22) International Filing Date: 17 November 1998 (17.11.98) (30) Priority Data: 08/993,168 18 December 1997 (18.12.97) US (71) Applicant: MOBIL OIL CORPORATION [US/US]; 3225 Gallows Road, Fairfax, VA 22037 (US). (72) Inventor: KISSIN, Yury, Viktorovich; 35 Pine Ridge Drive, East Brunswick, NJ 08816 (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 <i>With international search report.</i>
(54) Title: OLEFIN POLYMERISATION CATALYST BASED ON METALLOCENE COMPLEXES AND PERFLUORINATED OLIGOARYL DERIVATIVES OF ALUMINATES (57) Abstract The invention relates to a catalyst composition for olefin polymerization comprising metallocene complexes and novel cocatalysts belonging to the group of perfluorinated oligoarylaluminates, oligoarylthioaluminates and oligoarylaminoaluminates. These cocatalysts are produced by two alternative synthetic methods, either by reacting alkylalumoxanes with pentafluorophenol, pentafluorothiophenol, or with pentafluoroaniline, respectively; or in two-step processes comprising first reacting trialkylaluminum compounds with said perfluorinated agents and then by reacting the products of the first step with water. Catalyst systems containing these cocatalysts and metallocene complexes are active in polymerization and copolymerization reactions of ethylene and alpha-olefins.		