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(21) International Application Number: PCT/US96/15071 (22) International Filing Date: 20 September 1996 (20.09.96) (30) Priority Data: 08/555,816 / 9 November 1995 (09.11.95) / US (71) Applicant: MOBIL OIL CORPORATION [US/US]; 3225 Gallows Road, Fairfax, VA 22037 (US). (72) Inventors: KISSIN, Yury, Viktorovich; 35 Pine Ridge Drive, East Brunswick, NJ 08816 (US). MINK, Robert, Ivan; 30 A Gates Avenue, Warren, NJ 07059-5732 (US). NOWLIN, Thomas, Edward; 7 Perrine Path, Cranbury, NJ 08512 (US). SHIRODKAR, Pradeep, Pandurang; 8 McIntire Drive, Belle Mead, NJ 08502 (US). SCHREGENBERGER, Sandra, Denise; 5 Hope Court, Neshanic, NJ 08853 (US). TSIEN, Grace, Onkee; 78 Elm Street, Colonia, NJ 07067-4009 (US). (74) Agents: SCHNELLER, Marina, V. 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, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: BIMETALLIC CATALYST FOR ETHYLENE POLYMERIZATION REACTIONS WITH UNIFORM COMPONENT DISTRIBUTION (57) Abstract The invention relates to a process for uniformly dispersing a transition metal metallocene complex on a carrier comprising: (1) providing silica which is porous and has a particle size of 1 to 250 microns, having pores which have an average diameter of 50 to 500 Angstroms and having a pore volume of 0.5 to 5.0 cc/g; (2) slurring the silica in an aliphatic solvent having a boiling point less than 110 °C; (3) providing a volume of a solution comprising the metallocene complex, alumoxane of formulas R-(Al(R)-O) _x -AlR ₂ for oligomeric linear alumoxanes and (-Al(R)-O) _y for cyclic alumoxanes wherein x is 1-40, y is 3-40, and R is a C ₁ -C ₈ alkyl group in an aromatic and a solvent wherein the volume of solution is less than that required to form a slurry of the silica, wherein the concentration of alumoxane, expressed as Al weight percent, is 5 to 20; (4) contacting the silica slurry (2) with said volume of said solution (3) and allowing the solution to impregnate the pores of silica and, to disperse the metallocene in and on the carrier; (5) evaporating the solvents from the contacted and impregnated silica to recover dry free-flowing catalyst particles.		