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(21) International Application Number: PCT/US98/13691 (22) International Filing Date: 1 July 1998 (01.07.98) (30) Priority Data: 08/892,591 14 July 1997 (14.07.97) US (71) Applicant: MOBIL OIL CORPORATION [US/US]; 3225 Gallows Road, Fairfax, VA 22037 (US). (72) Inventors: LO, Frederick, Yip-Kwai; 522 Runyon Avenue, Piscataway, NJ 08854-4717 (US). MINK, Robert, Ivan; 30A Gates Avenue, Warren, NJ 07059-5732 (US). NOWLIN, Thomas, Edward; 7 Perrine Path, West Windsor, NJ 08512 (US). SCHREGENBERGER, Sandra, Denise; 5 Hope Court, Neshanic, NJ 08853 (US). SHIRODKAR, Pradeep, Pandurang; 8 McIntire Drive, Belle Mead, NJ 08502 (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: CATALYST FOR THE MANUFACTURE OF POLYETHYLENE WITH A BROAD OR BIMODAL MOLECULAR WEIGHT DISTRIBUTION (57) Abstract A catalyst composition is described for preparing a high activity catalyst in silica which produces, in a single reactor, polyethylene with a broad or bimodal molecular weight distribution. The catalyst is prepared from the interaction of silica, previously calcined at 600 °C, with dibutylmagnesium, 1-butanol and titanium tetrachloride and a solution of methylalumoxane and ethylenebis[1-indenyl]zirconium dichloride.		