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(21) International Application Number: PCT/US97/12027 (22) International Filing Date: 11 July 1997 (11.07.97) (30) Priority Data: 08/691,734 2 August 1996 (02.08.96) US (71) Applicant: MOBIL OIL CORPORATION [US/US]; 3225 Gallows Road, Fairfax, VA 22037 (US). (72) Inventors: HSIEH, John, Tai-Tung; 9 Ellsworth Drive, Warren, NJ 07060 (US). SCHREGENBERGER, Sandra, Denise; 5 Hope Court, Neshanic, NJ 08853 (US). SHINOMOTO, Ronald, Steven; 300 Mustang Lane, Schwenksville, PA 19473 (US). (74) Agents: SCHNELLER, Marina, V. et al.; Mobil Oil Corpora- tion, 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: SUPPORTED MODIFIED ZIEGLER-METALLOCENE CATALYST FOR OLEFIN POLYMERIZATION (57) Abstract A novel bimetallic catalyst was prepared from trialkyl silanol, dibutylmagnesium, alkoxy titanium chloride complex and a metallocene-alumoxane reaction product supported on silica. This catalyst can polymerize ethylene and higher olefins using triethylaluminum (TEA), diisobutylaluminum hydride (DIBAH), trimethylaluminum (TMA) and other aluminum alkyls as co-catalyst to give bimodal MWD resins suitable for premium HIC and/or HMW film applications.		