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(21) International Application Number: PCT/US96/12303 (22) International Filing Date: 25 July 1996 (25.07.96) (30) Priority Data: 08/540,143 6 October 1995 (06.10.95) US (71) Applicant: MOBIL OIL CORPORATION [US/US]; 3225 Gallows Road, Fairfax, VA 22037 (US). (72) Inventors: LOTTES, James, Frederic; 1477 Schirra Drive, Ambler, PA 19002 (US). MINK, Robert, Ivan; 30A Gates Avenue, Warren, NJ 07059 (US). NOWLIN, Thomas, Edward; 7 Perrine Path, Cranbury, NJ 08512 (US). KISSIN, Yury, Viktorovich; 35 Pine Ridge Drive, East Brunswick, NJ 08816 (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: CATALYST FOR THE MANUFACTURE OF POLYETHYLENE WITH A NARROW MOLECULAR WEIGHT DISTRIBUTION (57) Abstract An ethylene-alpha-olefin copolymerization catalyst is prepared by impregnating a porous support, such as silica, with a contact mixture of an organomagnesium compound such as dialkyl magnesium and a silane compound which is free of hydroxyl groups, such as tetraethyl orthosilicate. A transition metal component such as titanium tetrachloride is then incorporated into the support in a specific ratio to the magnesium and silane components. Activation of this catalyst precursor with a trialkylaluminum compound results in a catalyst system which is effective for the production of ethylene copolymers.		