



## [12] Patent

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[21] Application No.: GCC/P/2001/1502 [22] Filing Date: 18/07/2001 [30] Priority: [31] Priority No. [32] Priority date [33] State 09/685.173 10/10/2000 US [72] Inventors: 1- Akhlaq Asghar Moman, 2- Orass Mohamad Hamed, 3- Attiya Hamed Mahmod Abu Raqabah [73] Owner: Saudi Basic Industries Corporation (SABIC), P.O. Box 5101, Riyadh 11422, Kingdom of Saudi Arabia	[51] Int. Cl. <sup>7</sup> : C08F 4/654, 4/02, 10/00 [56] Cited Documents: - WO 9837108 A (KERR INNES HEINZ JUERGEN; FRITZSCHE GERD (DE); LOHSF GRED (DE); BUN) 27 August 1998 - US 5885924 A (WARD DAVID GEORGE) 23 March 1999 - WO 0121673 A (ABU RAQABAH ATIEH; HAMED ORASS; MOMAN AKHLAQ (SA) SAUDI BASIC 29 March 2001 - WO 0127168 A (ABU RAQABAH ATIEH; HAMED ORASS; MOMAN AKHLAQ (SA) SAUDI BASIC 19 April 2001

[54] CATALYST COMPOSITION AND PROCESS FOR OLFIN POLYMERIZATION AND COPOLYMERIZATION USING SUPPORTED METALLOCENE CATALYST SYSTEMS

[57] Abstract: A catalyst composition includes: A) a solid catalyst precursor containing a metallocene compound, a magnesium compound and a particulate polymeric material; and B) a cocatalyst containing aluminum compound. The catalyst is prepared by combining metallocene compound, magnesium compound and particles of polymeric material to form a catalyst precursor; and activating the catalyst precursor with alkylaluminums and/or aluminoxanes. Homopolymeric or copolymeric polyolefms are produced by contacting olefins or olefins and alpha-olefins with the catalyst composition.

No. of claims: 24