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(21) International Application Number: PCT/US99/25650 (22) International Filing Date: 2 November 1999 (02.11.99) (30) Priority Data: 09/184,389 2 November 1998 (02.11.98) US (71) Applicant: EXXON CHEMICAL PATENTS INC. [US/US]; 13501 Katy Freeway, Houston, TX 77079 (US). (72) Inventors: VIZZINI, James, C.; 4922 Double Eagle Drive, Pasadena, TX 77505 (US). CHUDGAR, Rajan, K.; 315 Vantage Points Circle, League City, TX 77563 (US). (74) Agents: ALEXANDER, David, J. et al.; Exxon Chemical Company, P.O. Box 2149, Baytown, TX 77522-2149 (US).		(81) Designated States: CA, CN, JP, KR, MX, 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: **SUPPORTED IONIC CATALYST COMPOSITIONS**

(57) Abstract

This invention relates to supported metallocene catalyst compositions useful for addition reactions of prochiral α -olefins. Polymers, specifically propylene polymers, produced with this catalyst possess higher stereoregularities and consequently higher melting points compared to propylene polymers produced using previously known supported metallocene catalysts. The microstructure of the polymers obtained using the supported catalyst systems of this invention is similar to that obtained using analogous unsupported catalysts. The catalyst compositions comprise transition metal (i.e., metallocene) cations and anionic activators in prescribed ratios on metal oxide supports.