PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 :
B01J 31/22, 31/06, C08F 4/64, 297/08

A1

(11) International Publication Number: WO 00/25916

(43) International Publication Date: 11 May 2000 (11.05.00)

(21) International Application Number: PCT/US99/25336

(22) International Filing Date: 28 October 1999 (28.10.99)

(30) Priority Data:
09/184,358 2 November 1998 (02.11.98) US

(71) Applicant: EXXON CHEMICAL PATENTS INC. [US/US]; 13501 Katy Freeway, Houston, TX 77079 (US).

(72) Inventor: VIZZINI, James, C.; 4922 Double Eagle Drive, Pasadena, TX 77505 (US).

(74) Agents: ALEXANDER, David, J. et al.; Exxon Chemical Company, P.O. Box 2149, Baytown, TX 77522-2149 (US).

(81) Designated States: AU, BR, CA, CN, CZ, HU, IN, JP, MX, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published
With international search report.

(54) Title: POLYMERIC SUPPORTED CATALYSTS

(57) Abstract

This invention relates to a catalyst system comprising a substituted, bridged indenyl metallocene supported on a polymeric support wherein the metallocene is activated for polymerization by an ionizing reaction and stabilized in cationic form with a noncoordinating anion. Propylene polymers produced by these supported catalyst systems have melting points and polymer microstructures similar to propylene polymers produced using analogous unsupported catalyst systems.