

08/06/02
2002 034 056

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



162162

(43) International Publication Date
21 June 2001 (21.06.2001)

PCT

(10) International Publication Number
WO 01/44309 A1

(51) International Patent Classification⁷: C08F 2/06,
4/02, 4/22, 4/606, 4/642, 4/646, 4/69

(21) International Application Number: PCT/US00/32788

(22) International Filing Date: 5 December 2000 (05.12.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/464,953 16 December 1999 (16.12.1999) US

(63) Related by continuation (CON) or continuation-in-part
(CIP) to earlier application:
US 09/464,953 (CON)
Filed on 16 December 1999 (16.12.1999)

(71) Applicant (for all designated States except US):
PHILLIPS PETROLEUM COMPANY [US/US];
4th and Keller, Bartlesville, OK 74004 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MCDANIEL,
Max, P. [US/US]; 1601 Melmart Drive, Bartlesville, OK
74006 (US). COLLINS, Kathy, S. [US/US]; 3915 Silver
Lake Drive, Bartlesville, OK 74006 (US). BENHAM,
Elizabeth, A. [US/US]; 431 Shannon, Bartlesville, OK
74006 (US). EATON, Anthony, P. [US/US]; 450 Williams
Landing Drive, Sugar Land, TX 77479 (US). JENSEN,

Michael, D. [US/US]; 2008 Skyline Place, Bartlesville,
OK 74006 (US). MARTIN, Joel, L. [US/US]; 636 Ken-
wood Drive, Bartlesville, OK 74006 (US). HAWLEY,
Gil, R. [US/US]; 1022 N. Wyandotte, Dewey, OK 74029
(US). HSIEH, Eric, T. [US/US]; RR 2 Box 1330, 401161
W 2460 Drive, Bartlesville, OK 74006 (US).

(74) Agents: RICHARDS, John et al.; Ladas & Parry, 26 West
61st Street, New York, NY 10023 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— With international search report.

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: ORGANOMETAL CATALYST COMPOSITIONS

(57) Abstract: This invention provides catalyst compositions that are useful for polymerizing at least one monomer to produce a polymer. This invention also provides catalyst compositions that are useful for polymerizing at least one monomer to produce a polymer, wherein said catalyst composition comprises a post-contacted organometal compound, a post-contacted organoaluminum compound, and a post-contacted treated solid oxide compound.

WO 01/44309 A1



ACTION