

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 May 2004 (21.05.2004)

PCT

(10) International Publication Number
WO 2004/041871 A1

(51) International Patent Classification⁷: **C08F 4/608**,
10/00

(21) International Application Number:
PCT/EP2003/012190

(22) International Filing Date:
3 November 2003 (03.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10251491.7 4 November 2002 (04.11.2002) DE
60/429,495 27 November 2002 (27.11.2002) US

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, 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, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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

(54) Title: PREPARATION OF CATALYST COMPOSITIONS HAVING IMPROVED ACTIVITY

(57) Abstract: The present invention relates to a process for preparing a catalyst composition for olefin polymerization, which comprises preparing a catalyst solid in a first step by bringing A) at least one support, B) at least one organic compound having at least one functional group containing active hydrogen, C) at least one organometallic compound and D) at least one organic transition metal compound into contact with one another, then bringing this catalyst solid into contact with E) at least one organoaluminum compound in a second step and then using this mixture for the polymerization without further work-up. In addition, the invention relates to catalyst system for the polymerization of olefins which comprise such catalyst compositions, to the use of the catalyst compositions or the catalyst systems for the polymerization of olefins and to a process of the polymerization of olefins.

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