

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number
WO 2004/085495 A1

- (51) International Patent Classification⁷: **C08F 4/02**, 10/00, 10/06, 4/654
- (21) International Application Number: PCT/EP2004/002519
- (22) International Filing Date: 9 March 2004 (09.03.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
03075872.6 27 March 2003 (27.03.2003) EP
60/460,643 4 April 2003 (04.04.2003) US
- (71) Applicant (for all designated States except US): **BASELL POLIOLEFINE ITALIA S.P.A.** [IT/IT]; Via Pergolesi, 25, I-20124 Milano (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **MORINI, Giampiero** [IT/IT]; Via Giotto, 36, I-35100 Padova (IT). **BALBONTIN, Giulio** [IT/IT]; Via Firenze, 44/16, I-17100 Savona (IT). **PIEMONTESE, Fabrizio** [IT/IT]; Vicolo Mozzo della Vittoria, 2, I-44100 Ferrara (IT). **FUSTO, Maria** [IT/IT]; Via Arianuova, 136, 44100 Ferrara (IT). **VITALE, Gianni** [IT/IT]; Via Fulvio Testi, 22, I-44100 Ferrara (IT). **PRINI, Giansiro** [IT/IT]; Via Pio Mazzucchi, 76, I-45020 Castelfidardo (IT).
- (74) Agent: **COLUCCI, Giuseppe**; Basell Poliolefine Italia S.P.A., Intellectual Property, P.le G. Donegani 12, I-44100 Ferrara (IT).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, 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, NA, 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 (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

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: MAGNESIUM DICHLORIDE-ALCOHOL ADDUCTS AND CATALYST COMPONENTS OBTAINED THEREFROM

(57) Abstract: The present invention relates to $\text{MgCl}_2 \cdot (\text{EtOH})_m (\text{ROH})_n (\text{H}_2\text{O})_p$ adduct in which R is a C1-C15 hydrocarbon group different from ethyl, n and m are indexes, higher than 0, satisfying the equations $(n+m) \geq 7$ and $0.05 \leq n/(n+m) \leq 0.95$ and p is a number ranging from 0 to 0.7 with the proviso that when R is methyl and $(n+m)$ is in the range of 0.7 to 1, the value of $n/(n+m)$ ranges from 0.05 to 0.45. The catalyst components obtained from the adducts of the present invention are capable to give catalysts for the polymerization of olefins characterized by enhanced activity with respect to the catalysts prepared from the adducts of the prior art.

WO 2004/085495 A1