

(19) World Intellectual Property Organization
International Bureau



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

PCT

(10) International Publication Number
WO 01/44319 A2

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

(21) International Application Number: PCT/EP00/12930

(22) International Filing Date:
14 December 2000 (14.12.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
99204345.5 16 December 1999 (16.12.1999) EP

(71) Applicant (for all designated States except US): **BASELL TECHNOLOGY COMPANY B.V.** [NL/NL]; Hoeksteen 66, NL-2132 MS Hoofddorp (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **COVEZZI, Massimo** [IT/IT]; Via Renata di Francia, 40, I-44100 Ferrara (IT). **FAIT, Anna** [IT/IT]; Via Arianuova, 56/B, I-44100 Ferrara (IT).

(74) Agents: **COLUCCI, Giuseppe**; Basell Poliolefine Italia S.p.A., Intellectual Property, P.le G. Donegani, 12, I-44100 Ferrara et al. (IT).

(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.

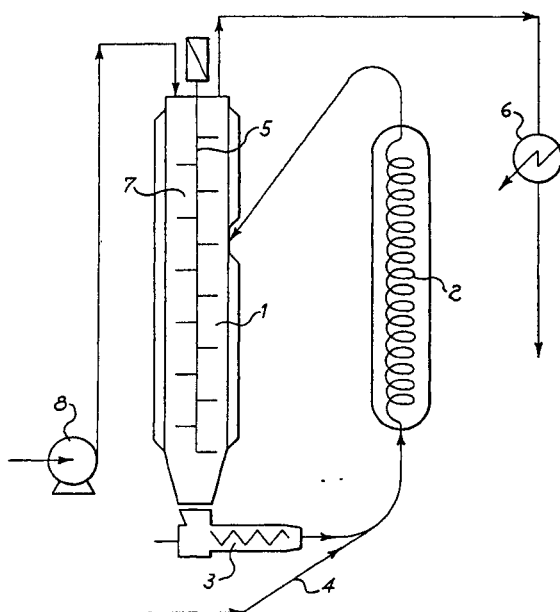
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML,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

Published:

Without international search report and to be republished upon receipt of that report.

[Continued on next page]

(54) Title: PROCESS AND APPARATUS FOR MAKING SUPPORTED CATALYST SYSTEMS FOR OLEFIN POLYMERISATION



(57) Abstract: A process to support a homogeneous catalyst on a porous solid support is performed in two separate zones. In a first zone the solid is contacted, under stirring, with an amount of a catalyst solution lower than the total pore volume of the solid. In a second zone the solid is dried from the solvent while flowing under pneumatic conveying. A loop circulation of solid is established between the two zones, so that the solid is subject to more contacting steps. The process is particularly suitable to support a metallocene-alumoxane polymerisation catalyst on a porous prepolymer. The process can be advantageously performed in continuous, thus fitting the needs of an industrial scale production process.



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.