

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number
WO 2005/005354 A1

(51) International Patent Classification⁷: **C07C 2/32**,
C08F 10/02, 4/70

(21) International Application Number:
PCT/EP2004/051365

(22) International Filing Date: 6 July 2004 (06.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03254303.5 7 July 2003 (07.07.2003) EP

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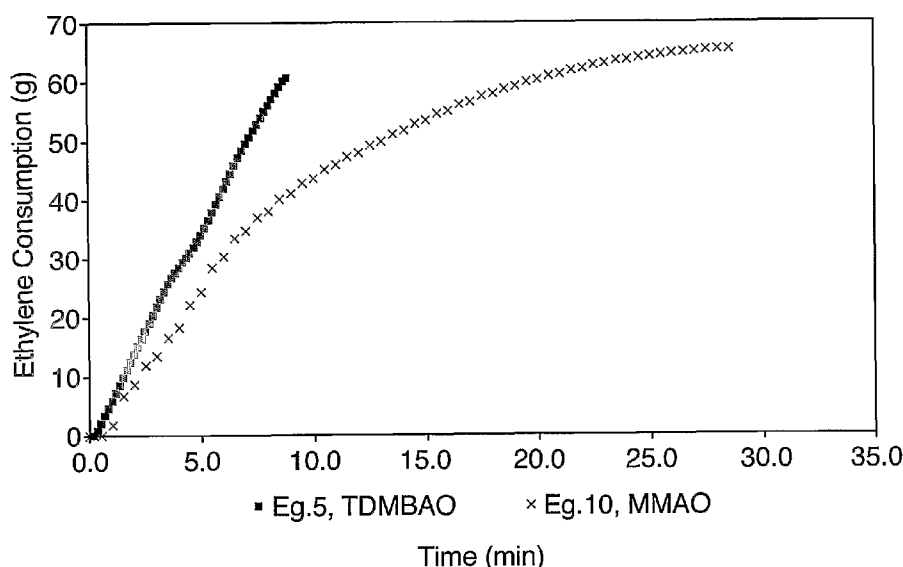
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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, 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, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: PROCESS FOR PRODUCING LINEAR ALPHA OLEFINS



(57) Abstract: A process for the production of alpha-olefins comprising reacting ethylene under oligomerisation conditions in the presence of a mixture comprising: (a) a metal salt based on Fe (II), Fe (III), Co (II) or Co(III); (b) a pyridine bis-imine ligand; and (c) a co-catalyst which is the reaction product of water with one or more organometallic aluminium compounds, wherein the one or more organometallic aluminium compounds is selected from: (i) $\beta\delta$ -branched compounds of Formula (I): $\text{Al}(\text{CH}_2\text{-CR}^1\text{R}^2\text{-CH}_2\text{-CR}^4\text{R}^5\text{R}^6)_x\text{R}^3\text{YH}_2$; (ii) $\beta\gamma$ -branched compounds of Formula (II) $\text{Al}(\text{CH}_2\text{-CR}^1\text{R}^2\text{-CR}^4\text{R}^5\text{R}^6)_x\text{R}^3\text{YH}_2$ and mixtures thereof; wherein when the metal salt and the bis-arylimine pyridine ligand are mixed together they are soluble in aliphatic or aromatic hydrocarbon solvent.



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).

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

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