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(21) International Application Number: PCT/US98/14306 (22) International Filing Date: 10 July 1998 (10.07.98) (30) Priority Data: 60/052,604 11 July 1997 (11.07.97) US 60/065,538 14 November 1997 (14.11.97) US 09/005,965 12 January 1998 (12.01.98) US (71) Applicants (for all designated States except US): E.I. DU PONT DE NEMOURS AND COMPANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US). UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL [US/US]; Office of Technology Development, Campus Box 4105, 308 Bynum Hall, Chapel Hill, NC 27599 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): BROOKHART, Maurice, S. [US/US]; 944 Old Lystra Road, Chapel Hill, NC 27514 (US). SMALL, Brooke, L. [-/US]; 4-A Royal Park, 501 Highway 54 Bypass, Camboro, NC 27510 (US). (74) Agent: EVANS, Craig, H.; E.I. du Pont de Nemours and Company, 1007 Market Street, Wilmington, DE 19898 (US).		(81) Designated States: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: MANUFACTURE OF ALPHA-OLEFINS (57) Abstract Alpha-olefins are manufactured in high yield and with very high selectivity by contacting ethylene with an iron complex of a selected 2,6-pyridinedicarboxaldehyde bisimine or a selected 2,6-diacylpyridine bisimine, and in some cases a selected activator compound such as an alkyl aluminum compound. Novel bisimines and their iron complexes are also disclosed. The α -olefins are useful as monomers and chemical intermediates.		