(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
18 January 2001 (18.01.2001)

PCT

(10) International Publication Number
WO 01/04183 A1

(51) International Patent Classification[7]: C08G 65/26, B01J 27/26

(21) International Application Number: PCT/US00/18664

(22) International Filing Date: 7 July 2000 (07.07.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/143,081	9 July 1999 (09.07.1999)	US
60/143,075	9 July 1999 (09.07.1999)	US
60/143,079	9 July 1999 (09.07.1999)	US
60/143,082	9 July 1999 (09.07.1999)	US
60/143,078	9 July 1999 (09.07.1999)	US
60/205,771	19 May 2000 (19.05.2000)	US

(71) Applicant: THE DOW CHEMICAL COMPANY [US/US], 2030 Dow Center, Midland, MI 48674 (US).

(72) Inventors: CLEMENT, Katherine, S.; 115 Pomciana, Lake Jackson, TX 77566 (US). WALKER, Louis, L.; 246 Barbara Drive, Clute, TX 77531 (US). WEHMEYER, Richard, M.; 205 Zinna, Lake Jackson, TX 77566 (US). WHITMARSH, Robert, H.; 130 Sugar Cane Circle, Lake Jackson, TX 77566 (US).

(74) Agent: KORFHAGE, Glenn, H.; Intellectual Property, P.O Box 1967, Midland, MI 48641-1967 (US).

(81) Designated States *(national)*: AU, BR, CA, CN, JP, KR, MX, SG

(84) Designated States *(regional)*: European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

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.

G00001

WO 01/04183 A1

(54) Title: POLYMERIZATION OF ETHYLENE OXIDE USING METAL CYANIDE CATALYSTS

(57) Abstract: Ethoxylations of various initiator compounds are performed in the presence of metal cyanide catalysts. The catalysts surprisingly form a wide variety of polyether products that in most cases contain only small amounts of high molecular weight poly(ethylene oxide).

162162