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(21) International Application Number: PCT/US94/07854 (22) International Filing Date: 13 July 1994 (13.07.94) (30) Priority Data: 08/091,120 13 July 1993 (13.07.93) US (71) Applicant: CHEVRON RESEARCH AND TECHNOLOGY COMPANY [US/US]; P.O. Box 7141, San Francisco, CA 94120-7141 (US). (72) Inventors: CHING, Ta, Yen; 10 Santa Yorma Court, Novato, CA 94945 (US). KATSUMOTO, Kiyoshi; 2615 Brooks Avenue, El Cerrito, CA 94530 (US). CURRENT, Steven, P.; 1207 Ridgeview Heights, Novato, CA 94947 (US). THEARD, Leslie, P.; 10050 Westpark, No. 1003, Houston, TX 77042 (US). (74) Agents: HOLLAND, Charles, D. et al.; Chevron Corporation, Law Dept., P.O. Box 7141, San Francisco, CA 94120-7141 (US).		(43) International Publication Date: 26 January 1995 (26.01.95) (81) Designated States: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, HU, JP, KE, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TT, UA, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 16 March 1995 (16.03.95)	
(54) Title: ETHYLENIC OXYGEN SCAVENGING COMPOSITIONS AND PROCESS FOR MAKING SAME BY ESTERIFICATION OR TRANSESTERIFICATION IN A REACTIVE EXTRUDER (57) Abstract Disclosed is a process for transesterifying a polymer having a polyethylenic backbone and pendant ester moieties comprising contacting a melt of the polymer in a reactive extruder with a transesterifying compound so that the polymer undergoes transesterification but not alcoholysis. The transesterified polymer also has pendant ester moieties which differ in kind and/or number from the unreacted polymer. In one embodiment, the process also comprises adding an amount of a transition metal salt that is effective to promote oxygen scavenging. Also in a further embodiment, the process comprises irradiating the transesterified polymer with actinic radiation to reduce the induction period before oxygen scavenging commences. Also disclosed are compositions comprising a component which comprises an ethylenic backbone and a pendant or terminal moiety comprising a benzyl radical are disclosed. The invention also embodies new polyethylenic oxygen scavenging compositions comprising a transition-metal salt and a component which comprises a polyethylenic backbone and a pendant or terminal moiety comprising a benzyl radical. Methods of making the compositions, and methods and compositions using the ethylenic compositions, are disclosed.			

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INTERNATIONAL SEARCH REPORT

Inter. nal Application No
PCT/US 94/07854

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C08F8/00 C08F8/14 B65D65/38 C08K5/09

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C08F C08K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP,A,0 301 719 (MB GROUP) 1 February 1989 see claims 1-38 ---	1-53
Y	EP,A,0 519 616 (CHEVRON RESEARCH AND TECHNOLOGY COMPANY) 23 December 1992 see page 8, line 7 - line 55; claims 1-15 ---	1-53
Y	EP,A,0 542 512 (MITSUBISHI GAS CHEMICAL COMPANY, INC.) 19 May 1993 see page 2, line 51 - page 3, line 47 see page 4, line 10 - page 5, line 3; claims 1-14 ---	1-53
A	WO,A,91 17044 (ZAPATA INDUSTRIES, INC.) 14 November 1991 see claims 1-69 --- -/--	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

16 December 1994

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	PATENT ABSTRACTS OF JAPAN vol. 12, no. 191 (C-501) (3038) 3 June 1988 & JP,A,62 297 301 (TOKYO FINE CHEM K.K.) 24 December 1987 see abstract -----	1

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