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- (71) Applicant: **UNIROYAL CHEMICAL COMPANY, INC.** [US/US]; 199 Benson Road, Middlebury, CT 06749 (US).
- (72) Inventors: **DIMAIO, Anthony, J.**; 160 Barnhill Road, Wdbury, CT 06798 (US). **BARANSKI, John, R.**; 42 Lowery Drive, Southington, CT 06489 (US). **BUDWORTH, John, G.**; 79 Richard Avenue, Wolcott, CT 06716 (US).
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09/637,791 11 August 2000 (11.08.2000) US
- (54) Title: PROCESS FOR PRODUCING LIQUID POLYALPHAOLEFIN POLYMER, METALLOCENE CATALYST THEREFOR AND LUBRICANTS CONTAINING THE SAME
- (57) Abstract: A liquid polyalphaolefin homo- or copolymer, preferably 1-decene, which is substantially amorphous is obtained by a polymerization process employing hydrogen and a particular type of metallocene catalyst. Additionally, liquid polyalphaolefin homo- or copolymer containing from 2 to about 12 carbon carbon atoms possess a unique combination of properties, i.e., low molecular weight (M_w), low polydispersity index (M_x/M_n), controllable kinematic viscosity (Kv_{100}), low Iodine Number (I_2) and low glass transition temperature (T_g) and are substantially amorphous. The liquid polyalphaolefin homo- or copolymers provided herein are useful for manufacturing a variety of products including lubricating oils in which the polyalphaolefin functions as a viscosity modifier.
- (81) Designated States (*national*): AU, BR, CA, IN, JP, KP, KR, MX, SG, ZA.
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International Application No

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08F10/14 C08F4/642 C10M143/08 //C10N30:02

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 7 C08F C10M C10N

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)

WPI Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 586 777 A (FINA RESEARCH) 16 March 1994 (1994-03-16) page 3, line 22 - line 24 page 3, line 35 - line 45 page 4, line 11 - line 16 page 4, line 20 - line 41 claim 1 ---	1,5-37
X	WO 97 38019 A (UNIROYAL CHEM CO INC) 16 October 1997 (1997-10-16) page 21, line 29 -page 30, line 2 page 26 -page 27 page 29, line 15 - line 29 page 32; examples CE,19 claim 19 --- -/--	1-4,6-8

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040. Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Parry, J

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Information on patent family members

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