

①②

EUROPEAN PATENT APPLICATION

②① Application number: **82201623.4**

⑤① Int. Cl.³: **C 10 M 1/32, C 08 F 287/00**

②② Date of filing: **17.12.82**

③① Priority: **21.12.81 US 332690**
21.12.81 US 332692

⑦① Applicant: **SHELL INTERNATIONALE RESEARCH**
MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30,
NL-2596 HR Den Haag (NL)

④③ Date of publication of application: **29.06.83**
Bulletin 83/26

⑦② Inventor: **Martin, Michael Kent, 15319, Ensenada Drive,**
Houston Texas 77083 (US)

⑥④ Designated Contracting States: **BE DE FR GB NL**

⑧⑧ Date of deferred publication of search
report: **03.08.83 Bulletin 83/31**

⑦④ Representative: **Puister, Antonius Tonnis, Mr. et al, P.O.**
Box 302, NL-2501 CH The Hague (NL)

⑤④ **Dispersant-viscosity index improver product.**

⑤⑦ Lubricating oil additives having both dispersant and viscosity index-improving properties comprise a poly(poly-alkenyl aromatic)nucleus, at least three hydrogenated conjugated diene homopolymer or copolymer arms linked to the nucleus, and at least one polymerized nitrogen containing polar compound arm linked to the nucleus. A process for preparing these additives is also disclosed.

EP 0 082 574 A3



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
D,X	EP-A-0 029 622 (SHELL) * Claims 1-20 *	1-15	C 10 M 1/32 C 08 F 287/00 C 08 C 19/44 C 10 L 1/22
D,X	--- US-A-4 116 917 (R.J.A. ECKERT) * Column 2, line 37 - column 3, line 25; column 4, line 46 - col- umn 8, line 44 *	1-15	
A	--- US-A-4 221 872 (J. LYDIATE) * Claims 1,2,3,5 * -----	12,13	
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
			C 08 F C 08 C C 08 G
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 22-04-1983	Examiner RO TSAERT L.D.C.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	