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EUROPEAN PATENT APPLICATION

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㉝ **Engine lubricating oil composition.**

㉞ The composition comprises a major amount of engine lubricating base oil and a minor amount of certain quaternary ammonium hydroxides. Reduces octane requirement increase in spark ignition internal combustion engines and reduces oil consumption in diesel engines. Tricaprylmethyl ammonium hydroxide is a preferred additive.



EP 88 31 1672

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. 4)
X	FR-A-1 469 430 (ARMOUR & CO.) * Whole document * --	8	C 10 M 133/04 C 10 M 133/06/ C 10 N 40:04
X,L*	US-A-3 962 104 (EXXON RESEARCH AND ENGINEERING CO.) * Abstract; column 1, line 4 - column 2, line 49; column 7, line 33 - column 8, line 49; column 9, lines 10-42; examples 1-4,17; claims 1-5,16 * --	8	
X,L*	GB-A-1 003 062 (ESSO RESEARCH AND ENGINEERING CO.) * Page 1, line 72 - page 2, line 37, lines 39-70,110-123; page 5, lines 97-111; example 1; claim 25 * --	1,4,5,9	
Y	* Page 3, lines 104-114; page 5, lines 18-72, line 126 - page 6, line 41; example 9; claims 1,15,16,28 * --	2,6-8,10	TECHNICAL FIELDS SEARCHED (Int. Cl. 4) C 10 M
Y	US-A-4 473 377 (A.G. HORODYSKY et al.) * Abstract; column 1, lines 8-11, 33-51; column 2, line 31 - column 3, line 30 * --	8	
P,Y,L*	EP-A-0 266 193 (EXXON RESEARCH AND ENGINEERING CO.) * Abstract; page 2, lines 5-57; claims 1,3 * & US-A-4 787 196 (Cat. D)	2,6,7,10	
A	--	4,5,9	
The present search report has been drawn up for all claims . / .			
Place of search THE HAGUE		Date of completion of the search 13-06-1989	Examiner FISCHER
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 published on, or after the filing date D : document cited in the specification L : document cited for other reasons & : member of the same patent family, corresponding document			



DOCUMENTS CONSIDERED TO BE RELEVANT			- 2 -												
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)												
A, D	US-A-3 468 640 (M.R. BARUSCH et al.) * Whole document *	1, 2, 4-6, 10													
A	US-A-4 473 377 (A.G. HORODYSKY et al.) * Whole document *	1-3, 9-11													
A	EP-A-0 062 940 (SHELL INT. RESEARCH MIJ. B.V.) * Abstract; page 1, line 8 - page 3, line 25; page 6, line 1 - page 7, line 30 *														
A	FR-A-2 160 992 (ESSO RESEARCH AND ENGINEERING CO.) -----														
L*	Document so quoted for it's being considered to cast doubt on the "first-deposit" character of US Ser.No. 130524 of 09-12-1987, from which priority is claimed in the subject application.		TECHNICAL FIELDS SEARCHED (Int. Cl. 4)												
The present search report has been drawn up for all claims															
Place of		Date of completion of the search	Examiner												
<table border="0"><tr><td>CATEGORY OF CITED DOCUMENTS</td><td>T : theory or principle underlying the invention</td></tr><tr><td>X : particularly relevant if taken alone</td><td>E : earlier patent document, but published on, or after the filing date</td></tr><tr><td>Y : particularly relevant if combined with another document of the same category</td><td>D : document cited in the application</td></tr><tr><td>A : technological background</td><td>L : document cited for other reasons</td></tr><tr><td>O : non-written disclosure</td><td>& : member of the same patent family, corresponding document</td></tr><tr><td>P : intermediate document</td><td></td></tr></table>				CATEGORY OF CITED DOCUMENTS	T : theory or principle underlying the invention	X : particularly relevant if taken alone	E : earlier patent document, but published on, or after the filing date	Y : particularly relevant if combined with another document of the same category	D : document cited in the application	A : technological background	L : document cited for other reasons	O : non-written disclosure	& : member of the same patent family, corresponding document	P : intermediate document	
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