

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 735 128 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
11.06.1997 Bulletin 1997/24

(43) Date of publication A2:
02.10.1996 Bulletin 1996/40

(21) Application number: **96302164.7**

(22) Date of filing: **28.03.1996**

(51) Int Cl.⁶: **C10M 141/08**, C10M 141/10
 // (C10M141/08, 133:12,
 135:18),
 (C10M141/10, 133:12, 135:18,
 137:02), C10N30:10,
 C10N30:12, C10N40:00

(84) Designated Contracting States:
BE GB

(30) Priority: **28.03.1995 US 413038**

(71) Applicant: **ETHYL CORPORATION**
Richmond Virginia 23217 (US)

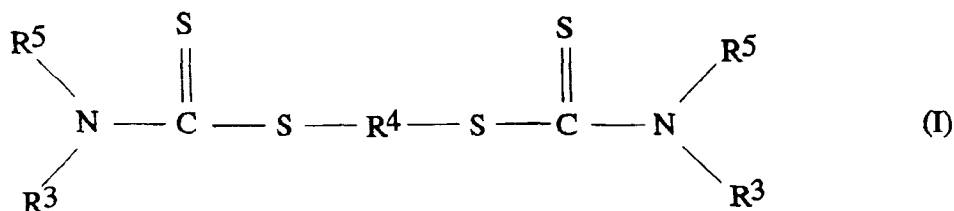
(72) Inventor: **Iyer, Ramnath**
Midlothian, Virginia 23113 (US)

(74) Representative: **Cresswell, Thomas Anthony**
J.A. KEMP & CO.
14 South Square
Gray's Inn
London WC1R 5LX (GB)

(54) **Extended life rust and oxidation oils**

(57) A lubricant composition comprising a base oil, rust and oxidation inhibitors and

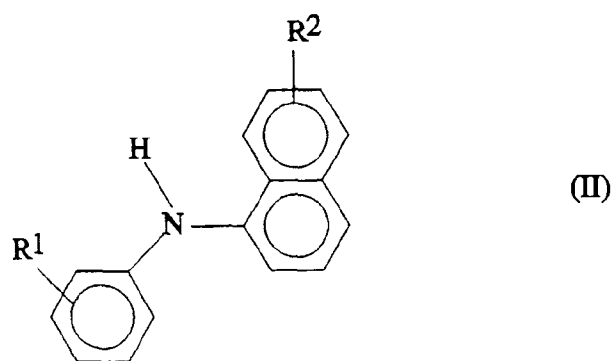
(a) a dithiocarbamate of formula (I)



wherein R⁴ is a hydrocarbylene group having 1 to 10 carbon atoms, the groups R⁵ are the same or different and each is hydrogen or a hydrocarbyl group having 1 to 18 carbon atoms, and the groups R³ are the same or different and each is a hydrocarbyl group having 1 to 18 carbon atoms; and

(b) an alkylphenyl- α -naphthylamine of formula (II)

EP 0 735 128 A3



wherein R¹ and R² are the same or different and each is hydrogen or C₁ to C₁₈ alkyl.



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 96 30 2164

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.6)
Y	GB 810 741 A (WAKEFIELD&CO.LTD) * page 3; table I * ---	1-4,8, 11,12	C10M141/08 C10M141/10 //(C10M141/08, 133:12, 135:18), (C10M141/10, 133:12,135:18, 137:02), C10N30:10, C10N30:12
Y	US 3 230 168 A (H.L.BONN) * column 2; table 1 * ---	1-4,8, 11,12	
Y	EP 0 528 610 A (ORONITE JAPAN LTD) * page 3, line 25 - line 30; table 1 * ---	1-4,8, 11,12	
A	US 5 236 610 A (J.M.PEREZ) * column 2, line 50 - column 4, line 62 * ---	1-12	
A	US 4 119 551 A (R.YAFFE) * claim 1 * ---	1	
A	US 4 226 732 A (R.R.REINHARD) * claim 1 * ---	1	
D,A	US 4 125 479 A (R.P.CHESLUK) * claim 1 * -----	1	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18 April 1997	Examiner Rotsaert, L
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	

EPO FORM 1503 03.92 (P04C01)