

Title (en)  
SULPHURIZED LUBRICANT ADDITIVES

Publication  
**EP 0271437 B1 19901003 (DE)**

Application  
**EP 87810639 A 19871106**

Priority  
CH 452186 A 19861112

Abstract (en)  
[origin: US4822506A] A composition containing a lubricant or a hydraulic fluid and at least one compound of the formula I <IMAGE> (I) in which both R1, independently of one another, are a hydrogen atom, a metal cation, NH4(+), primary, secondary, tertiary or quaternary ammonium, linear or branched C1-C24-alkyl, unsubstituted or C1-C18-alkyl-substituted cycloalkyl or cycloalkylalkyl having 3 to 7 ring C atoms, C7-C16-alkyl or C8-C40-alkyl, where C1-C24alkyl may be substituted by -NR4R5, -N(+)R4R5R6, -OR7, -SR7, -(CmH2mO)nR8, -C(O)OR9 or C1-C20-acyloxy, in which R4, R5 and R6, independently of one another, are a hydrogen atom or unsubstituted or -OH-substituted C1-C20-alkyl, or R4 and R5 together are tetramethylene, pentamethylene or 3-oxapentylene, R7 is a hydrogen atom, linear or branched C1-C18-alkyl, unsubstituted or C1-C12-alkylsubstituted cyclohexyl, phenyl or benzyl, R8 is a hydrogen atom, C114 C18-alkyl or C1-C20-acyl, and R9 is a hydrogen atom, the radical, reduced by one hydroxyl group, of a monohydric alcohol, a metal cation, or primary, secondary, tertiary or quaternary ammonium, m is an integer from 1 to 6, and n is a number from 1 to 20, R2 and R3, independently of one another, are a hydrogen atom or linear or branched C1-C20-alkyl, or R2 and R3 together are -CpH2p-in which p is an integer from 2 to 9. The compounds of the formula I are suitable as anti-wear agents and as high-pressure additives for lubricants and hydraulic fluids.

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**C07D 495/04; C07D 495/06; C10M 135/34**

IPC 8 full level  
**C10M 133/04** (2006.01); **C10M 135/34** (2006.01); **C10M 137/10** (2006.01); **C10M 141/10** (2006.01); **C10N 10/02** (2006.01); **C10N 10/04** (2006.01); **C10N 30/06** (2006.01); **C10N 40/08** (2006.01)

CPC (source: EP US)  
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