

Title (en)
TETRAHYDROQUINOLINE AS AN ANTIOXIDANT FOR LUBRICANTS

Publication
EP 0072349 B1 19870513 (DE)

Application
EP 82810325 A 19820804

Priority
CH 513081 A 19810810

Abstract (en)
[origin: CA1199623A] Tetrahydroquinolines as antioxidants for lubricants Lubricants can be rendered more resistant to oxidation with the aid of compounds of the formula I < IMG > (I) wherein R1 and R2 independently of one another are each hydrogen, hydroxyl, C1-C18-alkoxy, C3-C4-alkenyloxy, benzyloxy, C1-C18-alkyl or benzyl, R2 is hydrogen or C1-C12-alkyl, or together with R2 it forms a butadienediyl group, and R4 independently of one another are each C1-C18- alkyl, phenyl or benzyl, or R3 and R4 together with the carbon atom to which they are bound form a C5-C12-spiro-cycloalkyl ring, R5 is hydrogen or C1-C18-alkyl, and R6 is C1-C18-alkyl, or R5 and R6 together with the two carbon atom to which they are bound are a C5-C12 cycloaliphatic group. In a preferred embodiment, these compounds are combined with a customary phenolic antioxidant.

IPC 1-7
C10M 133/40; **C07D 215/02**

IPC 8 full level
C10M 133/38 (2006.01); **C10M 133/40** (2006.01); **C10M 141/00** (2006.01); **C10N 30/10** (2006.01); **C10N 50/10** (2006.01)

CPC (source: EP US)
C10M 133/40 (2013.01 - EP US); **C10M 141/00** (2013.01 - EP US); **C10M 2207/024** (2013.01 - EP US); **C10M 2207/026** (2013.01 - EP US); **C10M 2207/046** (2013.01 - EP US); **C10M 2207/283** (2013.01 - EP US); **C10M 2207/289** (2013.01 - EP US); **C10M 2215/08** (2013.01 - EP US); **C10M 2215/082** (2013.01 - EP US); **C10M 2215/22** (2013.01 - EP US); **C10M 2215/221** (2013.01 - EP US); **C10M 2215/222** (2013.01 - EP US); **C10M 2215/225** (2013.01 - EP US); **C10M 2215/226** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2215/30** (2013.01 - EP US); **C10M 2219/084** (2013.01 - EP US); **C10M 2219/087** (2013.01 - EP US); **C10M 2219/088** (2013.01 - EP US); **C10M 2219/089** (2013.01 - EP US); **C10M 2219/10** (2013.01 - EP US); **C10M 2219/102** (2013.01 - EP US); **C10M 2219/104** (2013.01 - EP US); **C10M 2219/106** (2013.01 - EP US); **C10N 2050/10** (2013.01 - EP US)

Cited by
EP0273868A3; EP0463996A3; EP0480875A1; EP0466639A1; EP0356677A1; AU621910B2; EP0273868A2; US10414697B2

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
EP 0072349 A2 19830216; **EP 0072349 A3 19840725**; **EP 0072349 B1 19870513**; CA 1199623 A 19860121; DE 3276326 D1 19870619; JP S5837092 A 19830304; US 4692258 A 19870908

DOCDB simple family (application)
EP 82810325 A 19820804; CA 408866 A 19820806; DE 3276326 T 19820804; JP 13908782 A 19820810; US 81054385 A 19851218