

Title (en)

LOW-CHLORINE, POLYOLEFIN-SUBSTITUTED, WITH AMINE REACTED, ALPHA-BETA UNSATURATED CARBOXYLIC COMPOUNDS

Title (de)

MIT NIEDRIGEM CHLORINHALT VERSEHENE, POLYOLEFIN-SUBSTITUIERTE UND MIT AMIN REAGIERENDE UNGESÄTTIGTE ALPHA-BETA-CARBOXYVERBINDUNGEN

Title (fr)

COMPOSES CARBOXYLIQUES ALPHA-BETA INSATURES A FAIBLE TENEUR EN CHLORE, SUBSTITUES PAR POLYOLEFINE, REAGISSANT EN PRESENCE D'AMINE

Publication

EP 1409620 A1 20040421 (EN)

Application

EP 02744735 A 20020627

Priority

- US 0220622 W 20020627
- US 30312101 P 20010705

Abstract (en)

[origin: WO03004589A1] A composition of matter comprising an amine acylated with a hydrocarbyl group substituted carboxylic acylating agent containing an average of from 1.3 to 1.6 groups derived from alpha , beta -unsaturated carboxylic compounds per M of the hydrocarbyl group, wherein the hydrocarbyl group has M determined by GPC ranging from 1500 to 3000, the amine comprises polyamine bottoms and said acylated amine has total base number (TBN) ranging from 17 to 35. A method for preparing the composition, lubricating oils containing the composition and, in another embodiment, lubricating oil compositions of this invention further comprising a metal overbased sulfonate detergent.

IPC 1-7

C10M 159/12; C10M 169/04; C10M 133/56

IPC 8 full level

C10M 107/02 (2006.01); **C10M 129/93** (2006.01); **C10M 133/06** (2006.01); **C10M 133/56** (2006.01); **C10M 159/12** (2006.01); **C10M 159/24** (2006.01); **C10M 169/04** (2006.01); **C10M 177/00** (2006.01); C10N 10/04 (2006.01); C10N 20/02 (2006.01); C10N 20/04 (2006.01); C10N 30/04 (2006.01); C10N 70/00 (2006.01)

CPC (source: EP)

C10M 133/56 (2013.01); **C10M 159/12** (2013.01); **C10M 169/04** (2013.01); C10M 2203/1006 (2013.01); C10M 2205/0206 (2013.01); C10M 2215/28 (2013.01); C10M 2219/046 (2013.01); C10N 2010/04 (2013.01); C10N 2020/04 (2013.01); C10N 2030/41 (2020.05); C10N 2040/25 (2013.01)

Cited by

EP2999773B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 03004589 A1 20030116; AU 2002345987 B2 20071101; CA 2452305 A1 20030116; EP 1409620 A1 20040421; EP 1409620 B1 20140115; JP 2004538348 A 20041224; JP 4907056 B2 20120328

DOCDB simple family (application)

US 0220622 W 20020627; AU 2002345987 A 20020627; CA 2452305 A 20020627; EP 02744735 A 20020627; JP 2003510749 A 20020627