

Title (en)

Hydrocarbyl substituted dispersants and compositions containing the dispersants

Title (de)

Kohlenwasserstoffsubstituierte Dispergatoren und Zusammensetzungen diese enthaltend

Title (fr)

Dispersants substituées par hydrocarbure et compositions les contenant

Publication

EP 1531176 A3 20050706 (EN)

Application

EP 04256909 A 20041108

Priority

US 70297103 A 20031106

Abstract (en)

[origin: EP1531176A2] A dispersant for use as a lubricant additive, a lubricant composition and a method for improving engine performance. The dispersant includes at least one member selected from the group consisting of hydrocarbyl-substituted succinimides, hydrocarbyl-substituted amines, and Mannich base adducts derived from hydrocarbyl-substituted phenols condensed with aldehydes and amines. The hydrocarbyl substituent is composed of a polymerization product of a raffinate I stream and isobutylene having a number average molecular weight ranging from about 500 to about 3000 as determined by gel permeation chromatography and more than about 70 mol percent of the polymerization product having a terminal vinylidene group.

IPC 1-7

C10M 133/56; C10M 149/04; C10M 159/16

IPC 8 full level

C10M 101/02 (2006.01); **C10M 129/10** (2006.01); **C10M 129/24** (2006.01); **C10M 131/04** (2006.01); **C10M 133/04** (2006.01); **C10M 133/16** (2006.01); **C10M 133/54** (2006.01); **C10M 133/56** (2006.01); **C10M 149/04** (2006.01); **C10M 149/06** (2006.01); **C10M 149/10** (2006.01); **C10M 151/02** (2006.01); **C10M 159/16** (2006.01); **C10M 169/04** (2006.01); **C10N 20/04** (2006.01); **C10N 30/02** (2006.01); **C10N 30/04** (2006.01); **C10N 30/06** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP US)

C10M 133/56 (2013.01 - EP US); **C10M 149/04** (2013.01 - EP US); **C10M 159/16** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2217/043** (2013.01 - EP US); **C10M 2217/06** (2013.01 - EP US)

Citation (search report)

- [X] US 4152499 A 19790501 - BOERZEL PAUL [DE], et al
- [X] US 4605808 A 19860812 - SAMSON JOHN N R [GB]
- [A] EP 0623631 A2 19941109 - BP CHEM INT LTD [GB]
- [X] EP 1318189 A1 20030611 - INFINEUM INT LTD [GB]
- [X] EP 1338643 A1 20030827 - INFINEUM INT LTD [GB]
- [X] EP 0355895 A2 19900228 - SHELL INT RESEARCH [NL]
- [X] DE 19948114 A1 20010412 - BASF AG [DE]

Cited by

RU2734178C2; US11359042B2; WO2017198714A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1531176 A2 20050518; **EP 1531176 A3 20050706**; AR 046825 A1 20051228; BR PI0404819 A 20050830; CA 2484558 A1 20050506; CN 100523155 C 20090805; CN 1626633 A 20050615; JP 2005139448 A 20050602; SG 112028 A1 20050629; US 2005101496 A1 20050512

DOCDB simple family (application)

EP 04256909 A 20041108; AR P040104006 A 20041101; BR PI0404819 A 20041105; CA 2484558 A 20041013; CN 200410092242 A 20041105; JP 2004312796 A 20041027; SG 200406419 A 20041105; US 70297103 A 20031106