

Title (en)

Compositions for control of octane requirement increase.

Title (de)

Zusammensetzungen für die Oktanzahlbedarfssteigerungenkontrolle.

Title (fr)

Compositions pour le contrÔle de l'augmentation du besoin en octane.

Publication

EP 0526129 A1 19930203 (EN)

Application

EP 92306805 A 19920724

Priority

US 73719591 A 19910729

Abstract (en)

Fuel additive concentrates for controlling octane requirement increase in internal combustion engines comprising the reaction product of (i) polyamine and (ii) at least one acyclic hydrocarbyl substituted succinic acylating agent; an unhydrotreated poly- alpha -olefin; and optionally, a mineral oil having a viscosity index of less than about 90, and a volatility of about 50% or less as determined by a test method described herein.

IPC 1-7

C10L 1/14; C10L 10/00

IPC 8 full level

C10L 1/14 (2006.01); **C10L 1/16** (2006.01); **C10L 1/22** (2006.01); **C10L 1/224** (2006.01); **C10L 1/2383** (2006.01); **C10L 1/18** (2006.01); **C10L 1/24** (2006.01)

CPC (source: EP)

C10L 1/143 (2013.01); **C10L 1/1616** (2013.01); **C10L 1/1641** (2013.01); **C10L 1/1832** (2013.01); **C10L 1/1883** (2013.01); **C10L 1/1985** (2013.01); **C10L 1/223** (2013.01); **C10L 1/2383** (2013.01); **C10L 1/2437** (2013.01)

Citation (search report)

- [YP] EP 0441014 A1 19910814 - ETHYL PETROLEUM ADDITIVES LTD [GB]
- [Y] BE 837155 R 19760629
- [Y] EP 0376578 A1 19900704 - MOBIL OIL CORP [US]
- [Y] GB 1486144 A 19770921 - CITIES SERVICE OIL CO
- [Y] US 3994698 A 19761130 - WORREL CALVIN J
- [Y] FR 2069039 A5 19710903 - TEXACO DEVELOPMENT CORP
- [A] EP 0290088 A1 19881109 - SHELL INT RESEARCH [NL]
- [A] US 3307928 A 19670307 - MICHAEL CHAIKIVSKY, et al

Cited by

EP0588429A1; EP0696634A1; EP0569228A1; US5393309A; EP0557516A4; US5814111A; GB2279965A; EP0634472A1; US5958089A; US5551957A; EP0890632A3; US8907150B2; US10767131B2; WO2011035219A3; WO9512648A1; US7704289B2; DE102007056511A1; US8552232B2; US9145566B2; US8556999B2; US8686202B2; WO0206428A1; WO03078553A3; EP0890632A2; US6280488B1; US9816041B2; US11407951B2

Designated contracting state (EPC)

BE DE ES FR GB IT

DOCDB simple family (publication)

EP 0526129 A1 19930203; EP 0526129 B1 19950524; AU 2059792 A 19930204; AU 654569 B2 19941110; CA 2074208 A1 19930130; DE 69202642 D1 19950629; DE 69202642 T2 19951012; ES 2073248 T3 19950801; JP H05194966 A 19930803

DOCDB simple family (application)

EP 92306805 A 19920724; AU 2059792 A 19920727; CA 2074208 A 19920720; DE 69202642 T 19920724; ES 92306805 T 19920724; JP 21962092 A 19920728