

Title (en)

Styrene-diene polymer viscosity modifiers for environmentally friendly fluids

Title (de)

Styrol/Butadien Copolymerisate als Viskositätsregler für umweltfreundliche Flüssigkeiten

Title (fr)

Agents modificateurs de viscosité à base de copolymère de styrène et de diène pour fluides non polluants

Publication

EP 0747467 A1 19961211 (EN)

Application

EP 96304157 A 19960605

Priority

US 47429595 A 19950607

Abstract (en)

A composition is disclosed which comprises (A) a major amount of at least one natural oil or synthetic triglyceride of the formula <CHEM> wherein R<1>, R<2> and R<3> are aliphatic groups that contain from about 7 to about 23 carbon atoms, and (B) a minor amount of a composition comprising a hydrogenated aliphatic conjugated diene/mono-vinyl aromatic random block copolymer. In addition to components (A) and (B), the compositions may also contain (C) an oxidation inhibitor, (D) an extreme pressure/anti-wear additive or mixtures thereof.

IPC 1-7

C10M 169/04

IPC 8 full level

C10M 169/04 (2006.01)

CPC (source: EP)

C10M 101/04 (2013.01); **C10M 105/38** (2013.01); **C10M 129/10** (2013.01); **C10M 133/12** (2013.01); **C10M 133/40** (2013.01); **C10M 133/44** (2013.01); **C10M 135/02** (2013.01); **C10M 135/04** (2013.01); **C10M 135/06** (2013.01); **C10M 135/18** (2013.01); **C10M 135/36** (2013.01); **C10M 137/10** (2013.01); **C10M 143/12** (2013.01); **C10M 169/044** (2013.01); **C10M 2205/06** (2013.01); **C10M 2207/023** (2013.01); **C10M 2207/026** (2013.01); **C10M 2207/027** (2013.01); **C10M 2207/281** (2013.01); **C10M 2207/282** (2013.01); **C10M 2207/283** (2013.01); **C10M 2207/2835** (2013.01); **C10M 2207/286** (2013.01); **C10M 2207/40** (2013.01); **C10M 2207/401** (2013.01); **C10M 2207/402** (2013.01); **C10M 2207/404** (2013.01); **C10M 2207/4045** (2013.01); **C10M 2215/06** (2013.01); **C10M 2215/064** (2013.01); **C10M 2215/065** (2013.01); **C10M 2215/066** (2013.01); **C10M 2215/067** (2013.01); **C10M 2215/068** (2013.01); **C10M 2215/22** (2013.01); **C10M 2215/221** (2013.01); **C10M 2215/223** (2013.01); **C10M 2215/225** (2013.01); **C10M 2215/226** (2013.01); **C10M 2215/30** (2013.01); **C10M 2219/02** (2013.01); **C10M 2219/022** (2013.01); **C10M 2219/024** (2013.01); **C10M 2219/066** (2013.01); **C10M 2219/068** (2013.01); **C10M 2219/10** (2013.01); **C10M 2219/102** (2013.01); **C10M 2219/104** (2013.01); **C10M 2219/106** (2013.01); **C10M 2219/108** (2013.01); **C10M 2223/045** (2013.01); **C10N 2010/02** (2013.01); **C10N 2010/04** (2013.01); **C10N 2010/06** (2013.01); **C10N 2010/08** (2013.01); **C10N 2010/10** (2013.01); **C10N 2010/12** (2013.01)

Citation (search report)

- [A] GB 2134923 A 19840822 - KASVIOLJY VAXTOLJE AB OY
- [A] US 3775329 A 19731127 - ECKERT R
- [A] US 5338471 A 19940816 - LAL KASTURI [US]
- [A] EP 0604125 A1 19940629 - LUBRIZOL CORP [US]
- [A] US 4938881 A 19900703 - RIPPLE DAVID E [US], et al
- [A] EP 0602981 A1 19940622 - LUBRIZOL CORP [US]

Cited by

CN109897721A; ES2326067A1; EP1231256A3; US6844301B2; WO9918175A1; WO2009118435A1; EP1490460A1

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

EP 0747467 A1 19961211; **EP 0747467 B1 20000209**; AU 5456996 A 19961219; AU 720651 B2 20000608; CA 2178039 A1 19961208; DE 69606585 D1 20000316; DE 69606585 T2 20000907

DOCDB simple family (application)

EP 96304157 A 19960605; AU 5456996 A 19960529; CA 2178039 A 19960603; DE 69606585 T 19960605