

Title (en)

Hydrocarbon compositions containing polyolefin graft polymers.

Title (de)

Polyolefinpfropfpolymeren enthaltende Kohlenwasserstoffzusammensetzungen.

Title (fr)

Compositions d'hydrocarbures contenant des polymères de polyoléfine greffés.

Publication

EP 0199453 A2 19861029 (EN)

Application

EP 86301906 A 19860317

Priority

- US 72656785 A 19850424
- US 72854585 A 19850429

Abstract (en)

Polymers having useful properties as oil additives are obtained by incorporating additional functional monomer units into oil-soluble backbone polymers having linear carbon chains, especially ethylene-propylene copolymers and ethylene-propylene-diene terpolymers. The first functional monomers have at least one nitrogen, sulphur and/or oxygen atom in a heterocyclic ring, preferably phenothiazine or the reaction product of phenothiazine and allyl glycidyl ether. Optionally a second amine polymer (preferably N-vinylpyrrolidone) can be grafted on to the backbone polymer. The polymers of the invention constitute dispersant, anti-oxidant, viscosity index improvers for lubricating oils, while the polymers containing both types of monomer unit are also useful as dispersant additives for fuel oils.

IPC 1-7

C08F 8/00; C08F 255/02; C10L 1/24; C10M 143/00; C10M 151/02; C10N 30/00

IPC 8 full level

C10L 1/24 (2006.01); **C10M 143/02** (2006.01); **C10M 149/02** (2006.01); **C10M 151/04** (2006.01)

CPC (source: EP)

C10L 1/2493 (2013.01); **C10M 133/38** (2013.01); **C10M 135/36** (2013.01); **C10M 143/00** (2013.01); **C10M 143/02** (2013.01); **C10M 143/14** (2013.01); **C10M 149/02** (2013.01); **C10M 149/04** (2013.01); **C10M 149/10** (2013.01); **C10M 151/04** (2013.01); **C10M 2205/00** (2013.01); **C10M 2205/02** (2013.01); **C10M 2205/022** (2013.01); **C10M 2205/08** (2013.01); **C10M 2207/024** (2013.01); **C10M 2215/04** (2013.01); **C10M 2215/064** (2013.01); **C10M 2215/086** (2013.01); **C10M 2215/22** (2013.01); **C10M 2215/26** (2013.01); **C10M 2215/28** (2013.01); **C10M 2217/02** (2013.01); **C10M 2217/022** (2013.01); **C10M 2217/028** (2013.01); **C10M 2217/046** (2013.01); **C10M 2217/06** (2013.01); **C10M 2219/044** (2013.01); **C10M 2219/046** (2013.01); **C10M 2219/106** (2013.01); **C10M 2219/108** (2013.01); **C10M 2221/00** (2013.01); **C10M 2221/04** (2013.01); **C10M 2221/041** (2013.01); **C10M 2221/043** (2013.01); **C10M 2223/045** (2013.01); **C10M 2229/02** (2013.01); **C10M 2229/05** (2013.01); **C10N 2010/04** (2013.01); **C10N 2040/25** (2013.01); **C10N 2040/251** (2020.05); **C10N 2040/255** (2020.05); **C10N 2040/28** (2013.01)

Cited by

US5523008A; EP0384998A1; EP0256547A3; US6083888A; EP0515152A1; CN113950494A; CN113563530A; EP0302239A3; EP0201164A3; US5298565A; EP0510991A1; EP0363501A1; EP0284234A3; EP0314845A1; US5663126A; GB2308124B; US5874389A; EP0672692A3; US6686321B2; US7175678B2; WO9833828A1; WO8808008A3; WO9732946A1

Designated contracting state (EPC)

BE DE FR GB IT NL SE

DOCDB simple family (publication)

EP 0199453 A2 19861029; EP 0199453 A3 19880413; AU 5630186 A 19861030; AU 596097 B2 19900426; BR 8601800 A 19861223

DOCDB simple family (application)

EP 86301906 A 19860317; AU 5630186 A 19860416; BR 8601800 A 19860423