

Title (en)

Olefins, unsaturated carboxylic esters and vinyl aromatics based terpolymers as additives for fuel oils and lubricants.

Title (de)

Terpolymere auf Basis von Olefinen, ungesättigten Carbonsäureestern und Vinylaromaten als Additive für Brennstofföle und Schmierstoffe

Title (fr)

Terpolymères à base d'oléfines, esters carboxyliques insaturés et composés vinylaromatiques, comme additifs pour huiles combustibles et lubrifiants.

Publication

**EP 1705196 A1 20060927 (DE)**

Application

**EP 05006153 A 20050321**

Priority

EP 05006153 A 20050321

Abstract (en)

Copolymer (A) obtained by polymerizing olefin monomers (M), is new. Copolymer (A) obtained by polymerizing olefin monomers (M) of formulae R1>-CH=CH<sub>2</sub> (M1); (R2>)(R3>)C=C(R4>)(R5>) (M2); and (R7>)(R6>)C=C(R8>)(R9>) (M3), is new. R1>H or 1-40C hydrocarbyl; R2>-R5>H, 1-40C-hydrocarbyl, -COOR10> or -OCOR10> (where at least one of R2>-R5 is COOR10> or OCOR10>); R6>-R8>H or 1-4C-alkyl; R9>aryl; and R10>1-40C hydrocarbyl. Independent claims are included for: (1) a fuel oil composition comprising a larger amount of a distillate fuel with a boiling point of 120-500[deg]C and smaller amount of at least a copolymer; (2) a lubricant composition comprising a larger amount of a conventional lubricant and smaller amount of at least a copolymer; and (3) an additive package comprising at least a copolymer in combination with at least a conventional grease additive or a fuel oil additive.

IPC 8 full level

**C08F 210/02** (2006.01); **C08F 210/00** (2006.01); **C10L 1/14** (2006.01); **C10L 1/18** (2006.01); **C10M 145/06** (2006.01); **C10M 145/08** (2006.01); **C10M 145/10** (2006.01)

CPC (source: EP)

**C10L 1/143** (2013.01); **C10L 1/1963** (2013.01); **C10L 1/1966** (2013.01); **C10L 1/1973** (2013.01)

Citation (search report)

- [X] US 4362533 A 19821207 - KIDD NASH A
- [X] BE 876211 A 19791112 - STANDARD OIL CO
- [X] US 3803034 A 19740409 - DASCH A

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 1705196 A1 20060927**

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