

Title (en)

Method of improving oil compositions

Title (de)

Verfahren zur Verbesserung von Ölzusammensetzungen

Title (fr)

Procédé d'amélioration de compositions d'huile

Publication

EP 2196520 A1 20100616 (EN)

Application

EP 09174793 A 20091102

Priority

- EP 08105958 A 20081209
- EP 09174793 A 20091102

Abstract (en)

A method of improving the low temperature properties of an oil comprising fatty acid alkyl esters derived from plant or animal materials, wherein at least 5% by weight of the fatty acid alkyl esters are derived from C 16 - C 22 saturated fatty acids. The method comprising reacting at least a portion of the oil with a polyalkylene polyamine or an imidazoline compound carrying both a poly-alkylene imine substituent and at least one primary amine group.

IPC 8 full level

C10L 1/2383 (2006.01); **C10L 10/14** (2006.01); **C10L 10/16** (2006.01)

CPC (source: EP KR US)

C10L 1/143 (2013.01 - EP US); **C10L 1/221** (2013.01 - EP US); **C10L 1/224** (2013.01 - EP US); **C10L 1/232** (2013.01 - EP US); **C10L 10/14** (2013.01 - EP US); **C10L 10/16** (2013.01 - EP US); **C10M 105/04** (2013.01 - KR); **C10M 149/22** (2013.01 - KR); **C10M 177/00** (2013.01 - KR); **C10L 1/1881** (2013.01 - EP US); **C10L 1/1973** (2013.01 - EP US); **C10L 2200/0259** (2013.01 - EP US); **C10L 2230/14** (2013.01 - EP US); **C10L 2270/026** (2013.01 - EP US); **C10N 2030/08** (2013.01 - KR)

Citation (applicant)

US 3961916 A 19760608 - ILNYCKYJ STEPHEN, et al

Citation (search report)

- [A] EP 0055355 A1 19820707 - BASF AG [DE]
- [A] EP 1526167 A2 20050427 - CLARIANT GMBH [DE]
- [A] US 2007240361 A1 20071018 - CLAYTON CHRISTOPHER WILLIAM [GB], et al
- [A] CA 2666554 A1 20080502 - BASF AG [DE]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2196520 A1 20100616; **EP 2196520 B1 20110119**; AT E496108 T1 20110215; CA 2687711 A1 20100609; CN 101747996 A 20100623; CN 101747996 B 20130605; DE 602009000639 D1 20110303; ES 2356112 T3 20110405; JP 2010138396 A 20100624; JP 5566087 B2 20140806; KR 20100066401 A 20100617; MY 145416 A 20120215; PL 2196520 T3 20110630; US 2010139153 A1 20100610

DOCDB simple family (application)

EP 09174793 A 20091102; AT 09174793 T 20091102; CA 2687711 A 20091208; CN 200910258009 A 20091209; DE 602009000639 T 20091102; ES 09174793 T 20091102; JP 2009279622 A 20091209; KR 20090121135 A 20091208; MY PI20095229 A 20091208; PL 09174793 T 20091102; US 62990609 A 20091203