

Title (en)

COMPOSITIONS OF THERMOASSOCIATIVE ADDITIVES, THE ASSOCIATION OF WHICH IS CONTROLLED, AND LUBRICATING COMPOSITIONS CONTAINING SAME

Title (de)

ZUSAMMENSETZUNGEN AUS THERMOASSOZIATIVEN ADDITIVEN MIT GESTEUERTER ASSOZIATION UND SCHMIERMITTELZUSAMMENSETZUNGEN DAMIT

Title (fr)

COMPOSITIONS D'ADDITIFS THERMOASSOCIATIFS DONT L'ASSOCIATION EST CONTROLEE ET COMPOSITIONS LUBRIFIANTES LES CONTENANT

Publication

EP 3245276 B1 20210908 (FR)

Application

EP 16700342 A 20160111

Priority

- FR 1550328 A 20150115
- EP 2016050400 W 20160111

Abstract (en)

[origin: WO2016113229A1] The invention relates to novel compositions of additives resulting from the mixture of at least two thermoassociative and exchangeable copolymers and at least one compound allowing the association of said two copolymers to be controlled. The invention also relates to a lubricating composition resulting from the mixture of at least one lubricating base oil, at least two thermoassociative and exchangeable copolymers and at least one compound allowing the association of said two copolymers to be controlled. The invention also relates to a method for modulating the viscosity of a lubricating composition resulting from the mixture of at least one lubricating base oil, and at least two thermoassociative and exchangeable copolymers, and to the use of a diol compound for modulating the viscosity of a lubricating composition.

IPC 8 full level

C10M 161/00 (2006.01); **C10N 30/00** (2006.01); **C10N 30/02** (2006.01); **C10N 70/00** (2006.01)

CPC (source: CN EP KR US)

C10M 105/00 (2013.01 - US); **C10M 129/08** (2013.01 - US); **C10M 155/04** (2013.01 - US); **C10M 161/00** (2013.01 - CN EP KR US); **C10M 169/044** (2013.01 - US); **C10M 2203/003** (2013.01 - US); **C10M 2203/1025** (2013.01 - CN EP KR US); **C10M 2205/04** (2013.01 - CN EP KR US); **C10M 2207/022** (2013.01 - CN EP KR US); **C10M 2209/04** (2013.01 - CN EP KR US); **C10M 2209/084** (2013.01 - CN EP KR US); **C10M 2217/024** (2013.01 - CN EP KR US); **C10M 2221/02** (2013.01 - CN EP KR US); **C10M 2229/00** (2013.01 - CN EP US); **C10N 2030/02** (2013.01 - CN EP US); **C10N 2030/68** (2020.05 - CN EP US); **C10N 2070/02** (2020.05 - CN EP US)

C-Set (source: CN EP US)

CN EP

1. **C10M 2209/084 + C10M 2229/00**
2. **C10M 2203/1025 + C10N 2020/02**

US

1. **C10M 2203/1025 + C10N 2020/02**
2. **C10M 2209/084 + C10M 2229/00**

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2016113229 A1 20160721; BR 112017015040 A2 20191119; CA 2971690 A1 20160721; CN 107109285 A 20170829; CN 107109285 B 20201002; EP 3245276 A1 20171122; EP 3245276 B1 20210908; FR 3031744 A1 20160722; FR 3031744 B1 20170210; JP 2018506620 A 20180308; JP 6778685 B2 20201104; KR 20170128221 A 20171122; MA 40661 A1 20180531; MA 40661 B1 20181130; US 10508250 B2 20191217; US 2018023028 A1 20180125

DOCDB simple family (application)

EP 2016050400 W 20160111; BR 112017015040 A 20160111; CA 2971690 A 20160111; CN 201680005777 A 20160111; EP 16700342 A 20160111; FR 1550328 A 20150115; JP 2017537494 A 20160111; KR 20177021655 A 20160111; MA 40661 A 20160111; US 201615543100 A 20160111