

Title (en)

FRICION MODIFIERS AND/OR WEAR INHIBITORS DERIVED FROM HYDROCARBYL AMINES AND GLYCEROL CARBONATE

Title (de)

AUS HYDROCARBYLAMINEN UND GLYCEROLCARBONAT ABGELEITETE REIBUNGSMODIFIKATOREN UND/ODER VERSCHLEISSHEMMER

Title (fr)

MODIFICATEURS DE FROTTEMENT ET/OU INHIBITEURS D'USURE DÉRIVÉS D'AMINES D'HYDROCARBYLE ET CARBONATE DE GLYCEROL

Publication

EP 2376611 B1 20140618 (EN)

Application

EP 09837831 A 20091209

Priority

- US 2009067253 W 20091209
- US 33781308 A 20081218

Abstract (en)

[origin: US2010160198A1] A lubricating oil composition comprising a major amount of base oil of lubricating viscosity and a minor amount of an additive comprising the reaction product obtained by reacting a cyclic carbonate and a hydrocarbyl amine having the formula: R1R2NH in which R1 is hydrogen, or a hydrocarbyl group containing 1 to 40 carbon atoms, and R2 is a hydrocarbyl group containing 1 to 40 carbon atoms.

IPC 8 full level

C10M 133/18 (2006.01); **C10N 10/04** (2006.01); **C10N 10/12** (2006.01); **C10N 30/06** (2006.01); **C10N 40/04** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP US)

C10M 133/18 (2013.01 - EP US); **C10M 2207/289** (2013.01 - EP US); **C10M 2215/10** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2223/045** (2013.01 - EP US); **C10M 2227/09** (2013.01 - EP US); **C10N 2010/04** (2013.01 - EP US); **C10N 2020/069** (2020.05 - EP US); **C10N 2020/071** (2020.05 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2040/04** (2013.01 - EP US); **C10N 2040/08** (2013.01 - EP US); **C10N 2040/25** (2013.01 - EP US); **C10N 2070/00** (2013.01 - EP US)

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

DOCDB simple family (publication)

US 2010160198 A1 20100624; CA 2746937 A1 20100715; CA 2746937 C 20180123; CN 102282243 A 20111214; CN 102282243 B 20160921; EP 2376611 A2 20111019; EP 2376611 A4 20120725; EP 2376611 B1 20140618; JP 2012512945 A 20120607; JP 5438773 B2 20140312; SG 10201400731Q A 20140730; SG 172245 A1 20110728; WO 2010080308 A2 20100715; WO 2010080308 A3 20101007

DOCDB simple family (application)

US 33781308 A 20081218; CA 2746937 A 20091209; CN 200980154681 A 20091209; EP 09837831 A 20091209; JP 2011542247 A 20091209; SG 10201400731Q A 20091209; SG 2011044690 A 20091209; US 2009067253 W 20091209