

Title (en)

FRICTION 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)

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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

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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