

Title (en)
LUBRICANT COMPOSITIONS STABILIZED WITH STYRENATED PHENOLIC ANTIOXIDANT

Title (de)
DURCH EIN STYRENIERTES PHENOL-ANTIOXIDANTIUM STABILISIERTE SCHMIERMITTELZUSAMMENSETZUNGEN

Title (fr)
COMPOSITIONS DE LUBRIFIANT STABILISÉES AVEC UN ANTIOXYDANT PHÉNOLIQUE STYRÉNE

Publication
EP 2162518 A1 20100317 (EN)

Application
EP 08771877 A 20080625

Priority
• US 2008068105 W 20080625
• US 82544907 A 20070706

Abstract (en)
[origin: US2009011961A1] Compositions are disclosed that comprise a lubricant, at least a first antioxidant and an optional second antioxidant, the first antioxidant being a styrenated phenolic antioxidant and the optional second antioxidant a secondary diarylamine for synergistic antioxidant action. Also disclosed is a method of increasing the oxidation stability of lubricating oils comprising: adding thereto at least a first antioxidant and, optionally, a second antioxidant, the first antioxidant being a styrenated phenolic antioxidant and the optional second antioxidant a secondary diarylamine.

IPC 8 full level
C10M 129/10 (2006.01); **C10M 133/12** (2006.01); **C10M 141/06** (2006.01); **C10N 30/10** (2006.01); **C10N 50/10** (2006.01)

CPC (source: EP US)
C08K 5/13 (2013.01 - EP US); **C08K 5/18** (2013.01 - EP US); **C10M 129/10** (2013.01 - EP US); **C10M 133/12** (2013.01 - EP US); **C10M 141/06** (2013.01 - EP US); **C10M 2201/1006** (2013.01 - EP US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2205/0285** (2013.01 - EP US); **C10M 2207/024** (2013.01 - EP US); **C10M 2207/026** (2013.01 - EP US); **C10M 2207/042** (2013.01 - EP US); **C10M 2207/289** (2013.01 - EP US); **C10M 2215/064** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2219/046** (2013.01 - EP US); **C10M 2223/045** (2013.01 - EP US); **C10M 2223/049** (2013.01 - EP US); **C10N 2010/04** (2013.01 - EP US); **C10N 2020/01** (2020.05 - EP US); **C10N 2020/02** (2013.01 - EP US); **C10N 2020/065** (2020.05 - EP US); **C10N 2030/10** (2013.01 - EP US); **C10N 2050/10** (2013.01 - EP US)

Citation (search report)
See references of WO 2009009293A1

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
US 2009011961 A1 20090108; CN 101688142 A 20100331; CN 101688143 A 20100331; EP 2162518 A1 20100317; EP 2164933 A2 20100324; JP 2010532414 A 20101007; JP 2010532763 A 20101014; KR 20100029119 A 20100315; KR 20100029120 A 20100315; RU 2010103963 A 20110820; RU 2010103965 A 20110820; RU 2470067 C2 20121220; WO 2009009293 A1 20090115; WO 2009009481 A2 20090115; WO 2009009481 A3 20090226

DOCDB simple family (application)
US 82544907 A 20070706; CN 200880021556 A 20080625; CN 200880023567 A 20080707; EP 08771877 A 20080625; EP 08781436 A 20080707; JP 2010515051 A 20080625; JP 2010515283 A 20080707; KR 20107000219 A 20080625; KR 20107000222 A 20080707; RU 2010103963 A 20080625; RU 2010103965 A 20080707; US 2008068105 W 20080625; US 2008069320 W 20080707