

Title (en)
DISPERSANT COMBINATION FOR IMPROVED TRANSMISSION FLUIDS

Title (de)
DISPERSIONSMITTELKOMBINATION FÜR VERBESSERTE ÜBERTRAGUNGSFLÜSSIGKEITEN

Title (fr)
COMBINAISON DISPERSANTE POUR FLUIDES DE TRANSMISSION AMÉLIORÉS

Publication
EP 2109659 B1 20190612 (EN)

Application
EP 08728000 A 20080122

Priority
• US 2008051589 W 20080122
• US 88719207 P 20070130

Abstract (en)
[origin: WO2008094781A2] A lubricant composition of an oil, a dispersant viscosity modifier of a poly(meth)acrylate copolymer having a nitrogen-containing monomer in an amount to provide at least about 0.4 percent by weight nitrogen to the copolymer, and a succinimide dispersant prepared in the substantial absence of chlorine gives good performance as a transmission fluid.

IPC 8 full level
C10M 161/00 (2006.01)

CPC (source: EP US)
C10M 161/00 (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2217/02** (2013.01 - EP US); **C10M 2217/028** (2013.01 - EP US); **C10M 2223/043** (2013.01 - EP US); **C10M 2223/049** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2030/10** (2013.01 - EP US); **C10N 2030/76** (2020.05 - EP US); **C10N 2040/04** (2013.01 - EP US); **C10N 2040/042** (2020.05 - EP US); **C10N 2040/045** (2020.05 - EP US); **C10N 2060/00** (2013.01 - EP US); **C10N 2060/14** (2013.01 - EP US)

Citation (examination)
WO 2007044820 A1 20070419 - LUBRIZOL CORP [US], et al

Citation (opposition)
Opponent : Afton Chemical Corporation
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• "Lubricant Additives, Chemistry and Applications", 1 January 2010, article RUDNICK LESLIE: "Dispersants", pages: 153 - 157, 331, XP055806930
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• NIFANT'EV ILYA, VINOGRADOV ALEXANDER, VINOGRADOV ALEXEY, IVCHENKO PAVEL: "DFT Modeling of the Alternating Radical Copolymerization and Alder-Ene Reaction between Maleic Anhydride and Olefins", POLYMERS, vol. 12, no. 4, pages 744, XP055806934, DOI: 10.3390/polym12040744
• "LUBRICANT ADDITIVES, CHEMISTRY AND APPLICATIONS", 1 January 2003, MARCEL DEKKER, INC., , article LESLIE R. RUDNICK: "LUBRICANT ADDITIVES, CHEMISTRY AND APPLICATIONS /Passage/", pages: 8 - 8, XP093022593

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

DOCDB simple family (publication)
WO 2008094781 A2 20080807; WO 2008094781 A3 20081016; CA 2676290 A1 20080807; CA 2676290 C 20150310; EP 2109659 A2 20091021; EP 2109659 B1 20190612; JP 2010516866 A 20100520; JP 5414537 B2 20140212; US 2010099588 A1 20100422

DOCDB simple family (application)

