

Title (en)  
LUBRICATING COMPOSITION INCLUDING ESTERIFIED COPOLYMER AND LOW DISPERSANT LEVELS SUITABLE FOR DRIVELINE APPLICATIONS

Title (de)  
SCHMIERMITTELZUSAMMENSETZUNG MIT VERESTERTEM COPOLYMER UND NIEDRIGEM DISPERGIERMITTELGEHALT FÜR ANTRIEBSSTRANGANWENDUNGEN

Title (fr)  
COMPOSITION LUBRIFIANTE CONTENANT UN COPOLYMÈRE ESTÉRIFIÉ ET DE FAIBLES NIVEAUX DE DISPERSANTS APPROPRIÉE POUR DES APPLICATIONS DE TRANSMISSION

Publication  
**EP 2814919 A2 20141224 (EN)**

Application  
**EP 13705711 A 20130214**

Priority  
• US 201261599992 P 20120217  
• US 2013026009 W 20130214

Abstract (en)  
[origin: WO2013123102A2] A lubricating composition, method of making, and method of use are disclosed. The lubricant includes an esterified copolymer including a backbone that includes units derived from a vinyl aliphatic monomer and units derived from a carboxylic acid monomer, the carboxylic acid monomer comprising an alpha,beta-ethylenically unsaturated dicarboxylic acid or derivative thereof. The lubricating composition also includes an oil of lubricating viscosity. The lubricating composition includes no more than 2.5 wt. % of dispersant for dispersing oxidation products, other than the esterified copolymer.

IPC 8 full level  
**C10M 145/16** (2006.01); **C10M 149/00** (2006.01)

CPC (source: EP US)  
**C10M 145/16** (2013.01 - EP US); **C10M 149/00** (2013.01 - EP US); **C10M 157/04** (2013.01 - US); **C10M 2203/02** (2013.01 - EP US); **C10M 2203/1025** (2013.01 - EP US); **C10M 2205/028** (2013.01 - EP US); **C10M 2205/0285** (2013.01 - EP US); **C10M 2209/084** (2013.01 - EP US); **C10M 2215/08** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2217/06** (2013.01 - EP US); **C10M 2219/022** (2013.01 - EP US); **C10M 2223/043** (2013.01 - EP US); **C10N 2020/02** (2013.01 - EP US); **C10N 2020/04** (2013.01 - EP US); **C10N 2030/04** (2013.01 - EP US); **C10N 2030/10** (2013.01 - EP US); **C10N 2040/04** (2013.01 - EP US); **C10N 2040/042** (2020.05 - EP US); **C10N 2040/044** (2020.05 - EP US); **C10N 2040/045** (2020.05 - EP US); **C10N 2040/046** (2020.05 - EP US); **C10N 2040/08** (2013.01 - EP US); **C10N 2040/20** (2013.01 - EP US); **C10N 2040/25** (2013.01 - EP US); **C10N 2040/30** (2013.01 - EP US); **C10N 2060/06** (2013.01 - EP US); **C10N 2060/09** (2020.05 - EP US)

Citation (search report)  
See references of WO 2013123102A2

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2013123102 A2 20130822; WO 2013123102 A3 20131121**; BR 112014020262 A2 20170620; BR 112014020262 A8 20170711; CA 2864431 A1 20130822; CN 104220570 A 20141217; EP 2814919 A2 20141224; JP 2015507073 A 20150305; KR 20140125873 A 20141029; SG 10201606835U A 20161028; SG 11201404851V A 20140926; US 2016040089 A1 20160211

DOCDB simple family (application)  
**US 2013026009 W 20130214**; BR 112014020262 A 20130214; CA 2864431 A 20130214; CN 201380019671 A 20130214; EP 13705711 A 20130214; JP 2014557750 A 20130214; KR 20147025881 A 20130214; SG 10201606835U A 20130214; SG 11201404851V A 20130214; US 201314378373 A 20130822