

Title (en)  
LUBRICATING COMPOSITION INCLUDING N-ALKYLATED DIANILINE

Title (de)  
SCHMIERMITTELZUSAMMENSETZUNG MIT N-ALKYLIERTEM DIANILIN

Title (fr)  
COMPOSITION LUBRIFIANTE COMPORTANT DE LA DIANILINE N-ALKYLÉE

Publication  
**EP 3562921 B1 20220427 (EN)**

Application  
**EP 17826048 A 20171213**

Priority  
• US 201662439246 P 20161227  
• US 2017066103 W 20171213

Abstract (en)  
[origin: WO2018125569A1] A lubricating composition includes an oil of lubricating viscosity, an N-alkylated dianiline compound, and at least one of a) an ashless antioxidant, and b) an overbased calcium detergent. The ashless antioxidant may be selected from a diarylamine antioxidant, a phenolic antioxidant, and combinations thereof. The lubricating composition may contain less than 0.15 weight percent of phosphorus.

IPC 8 full level  
**C10M 133/12** (2006.01); **C10M 163/00** (2006.01); **C10N 10/04** (2006.01); **C10N 20/04** (2006.01); **C10N 30/00** (2006.01); **C10N 30/04** (2006.01); **C10N 30/10** (2006.01); **C10N 40/25** (2006.01); **C10N 60/14** (2006.01)

CPC (source: EP US)  
**C10M 133/12** (2013.01 - EP US); **C10M 163/00** (2013.01 - EP); **C10M 2205/022** (2013.01 - EP); **C10M 2207/026** (2013.01 - EP US); **C10M 2207/028** (2013.01 - EP US); **C10M 2207/262** (2013.01 - EP US); **C10M 2207/283** (2013.01 - US); **C10M 2207/289** (2013.01 - EP); **C10M 2215/06** (2013.01 - EP); **C10M 2215/064** (2013.01 - EP US); **C10M 2215/26** (2013.01 - US); **C10M 2215/28** (2013.01 - EP US); **C10M 2217/06** (2013.01 - US); **C10M 2219/022** (2013.01 - EP US); **C10M 2219/046** (2013.01 - EP US); **C10M 2223/045** (2013.01 - EP US); **C10N 2010/04** (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 2030/42** (2020.05 - EP US); **C10N 2030/52** (2020.05 - EP US); **C10N 2040/25** (2013.01 - EP US); **C10N 2060/14** (2013.01 - EP)

Citation (examination)  
US 2016115418 A1 20160428 - IVANCIC DANIELLE N [US], et al

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

DOCDB simple family (publication)  
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**US 2017066103 W 20171213**; CA 3046788 A 20171213; CN 201780080961 A 20171213; DK 17826048 T 20171213; EP 17826048 A 20171213; ES 17826048 T 20171213; US 201716468766 A 20171213