

Title (en)  
LUBRICATING OIL COMPOSITION

Title (de)  
SCHMIERÖLZUSAMMENSETZUNG

Title (fr)  
COMPOSITION D'HUILE LUBRIFIANTE

Publication  
**EP 2692841 A4 20140827 (EN)**

Application  
**EP 11862708 A 20110913**

Priority  

- JP 2011072464 A 20110329
- JP 2011070814 W 20110913

Abstract (en)  
[origin: EP2692841A1] The present invention provides a lubricating oil composition that maintains properties necessary to lubricating a transmission and other devices and has more excellent insulation properties and anti-wear properties and more improved anti-seizure properties than the prior art and comprises (A) a lubricating oil base oil; (B) at least one type of phosphorus compound selected from the group consisting of phosphorus compounds having at least one hydroxyl group and/or at least one thiol group; and (C) an ashless dispersant having a functional group containing as a dispersion group in an amount of less than 0.001 percent by mass on the basis of nitrogen on the total composition mass basis or no such an ashless dispersant at all, the composition having a 80°C volume resistivity of 5×10<sup>8</sup> Ω·m or greater.

IPC 8 full level

**C10M 137/00** (2006.01); **C10M 137/02** (2006.01); **C10M 141/10** (2006.01); **C10N 10/04** (2006.01); **C10N 20/02** (2006.01); **C10N 20/04** (2006.01); **C10N 30/06** (2006.01); **C10N 40/04** (2006.01)

CPC (source: EP US)

**C10M 137/00** (2013.01 - EP US); **C10M 137/02** (2013.01 - EP US); **C10M 141/10** (2013.01 - EP US); **C10M 2203/1025** (2013.01 - EP US); **C10M 2207/2825** (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 2223/02** (2013.01 - EP US); **C10M 2223/04** (2013.01 - EP US); **C10M 2223/043** (2013.01 - EP US); **C10M 2223/047** (2013.01 - EP US); **C10M 2223/049** (2013.01 - EP US); **C10M 2223/06** (2013.01 - EP US); **C10N 2010/04** (2013.01 - EP US); **C10N 2020/02** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2030/40** (2020.05 - EP US); **C10N 2040/04** (2013.01 - EP US); **C10N 2040/16** (2013.01 - EP US)

Citation (search report)

- [E] EP 2520640 A1 20121107 - IDEMITSU KOSAN CO [JP] & WO 2011080970 A1 20110707 - IDEMITSU KOSAN CO [JP], et al
- [I] EP 1405897 A1 20040407 - NISSAN MOTOR [JP], et al & WO 02097017 A1 20021205 - NISSAN MOTOR [JP], et al
- See references of WO 2012132055A1

Cited by

FR3097872A1; EP3872151A4; US11535808B2; WO2020260462A1; WO2018067905A1

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)

**EP 2692841 A1 20140205; EP 2692841 A4 20140827**; CA 2820519 A1 20121004; CN 103443256 A 20131211; CN 103443256 B 20160525; JP 2012207083 A 20121025; JP 5779376 B2 20150916; US 2014018271 A1 20140116; WO 2012132055 A1 20121004

DOCDB simple family (application)

**EP 11862708 A 20110913**; CA 2820519 A 20110913; CN 201180069358 A 20110913; JP 2011070814 W 20110913; JP 2011072464 A 20110329; US 201114007120 A 20110913