

Title (en)
LUBRICANT COMPOSITION

Title (de)
SCHMIERMITTELZUSAMMENSETZUNG

Title (fr)
COMPOSITION LUBRIFIANTE

Publication
EP 2444474 A4 20121128 (EN)

Application
EP 10789391 A 20100607

Priority
• JP 2010059623 W 20100607
• JP 2009145650 A 20090618

Abstract (en)
[origin: EP2444474A1] A lubricant oil composition which is excellent in wear resistance, high temperature detergency and base number retaining property, despite its low phosphorus content, low sulfur content and low sulfuric acid ash content, is provided at a low cost by compounding a sulfonamide compound having a specific structure in a base oil.

IPC 8 full level
C10M 135/10 (2006.01); **C10N 10/04** (2006.01); **C10N 20/02** (2006.01); **C10N 20/04** (2006.01); **C10N 30/04** (2006.01); **C10N 30/06** (2006.01); **C10N 30/08** (2006.01); **C10N 30/10** (2006.01); **C10N 40/02** (2006.01); **C10N 40/04** (2006.01); **C10N 40/08** (2006.01); **C10N 40/25** (2006.01); **C10N 40/30** (2006.01); **C10N 50/10** (2006.01); **C10N 60/02** (2006.01)

CPC (source: EP KR US)
C10M 135/10 (2013.01 - EP KR US); **C10M 2203/1025** (2013.01 - EP US); **C10M 2207/262** (2013.01 - EP US); **C10M 2207/289** (2013.01 - EP US); **C10M 2209/084** (2013.01 - EP US); **C10M 2215/064** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2219/044** (2013.01 - EP US); **C10M 2223/045** (2013.01 - EP US); **C10M 2229/02** (2013.01 - EP US); **C10N 2020/00** (2013.01 - KR); **C10N 2020/02** (2013.01 - EP US); **C10N 2020/04** (2013.01 - EP US); **C10N 2030/00** (2013.01 - KR); **C10N 2030/04** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2030/08** (2013.01 - EP US); **C10N 2030/10** (2013.01 - EP US); **C10N 2030/42** (2020.05 - EP US); **C10N 2030/43** (2020.05 - EP US); **C10N 2030/45** (2020.05 - EP US); **C10N 2030/52** (2020.05 - EP US); **C10N 2030/74** (2020.05 - EP US); **C10N 2040/02** (2013.01 - EP US); **C10N 2040/042** (2020.05 - EP US); **C10N 2040/044** (2020.05 - EP US); **C10N 2040/08** (2013.01 - EP US); **C10N 2040/135** (2020.05 - EP US); **C10N 2040/25** (2013.01 - EP KR US); **C10N 2040/252** (2020.05 - EP US); **C10N 2040/255** (2020.05 - EP US); **C10N 2040/30** (2013.01 - EP US); **C10N 2050/10** (2013.01 - EP US); **C10N 2060/02** (2013.01 - EP US)

C-Set (source: EP US)
EP
1. **C10M 2203/1025 + C10N 2020/02**
2. **C10M 2207/262 + C10N 2010/04**
3. **C10M 2223/045 + C10N 2010/04**
US
1. **C10M 2207/262 + C10N 2010/04**
2. **C10M 2223/045 + C10N 2010/04**
3. **C10M 2203/1025 + C10N 2020/02**

Citation (search report)
• No further relevant documents disclosed
• See references of WO 2010147016A1

Cited by
US11174449B2; US11193081B2; US10597600B2; WO2017205274A1; WO2017162774A1

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 SE SI SK SM TR

DOCDB simple family (publication)
EP 2444474 A1 20120425; EP 2444474 A4 20121128; CN 102459536 A 20120516; CN 102459536 B 20140625; JP 2011001470 A 20110106; JP 5785682 B2 20150930; KR 20120040145 A 20120426; US 2012135904 A1 20120531; WO 2010147016 A1 20101223

DOCDB simple family (application)
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