

Title (en)
LUBRICANT COMPOSITION

Title (de)
SCHMIERMITTELZUSAMMENSETZUNG

Title (fr)
COMPOSITION D'HUILE LUBRIFIANTE

Publication
EP 3388500 A4 20190501 (EN)

Application
EP 16873033 A 20161207

Priority
• JP 2015238499 A 20151207
• JP 2016086429 W 20161207

Abstract (en)
[origin: EP3388500A1] Provided is a lubricating oil composition capable of decreasing friction while ensuring anti-wear properties even if it is reduced in viscosity. The lubricating oil composition comprises a lubricant base oil, (A) a magnesium-based detergent, and (B) a molybdenum-based friction modifier, wherein the amount of component (A) is in the range of 200 to 1200 mass ppm in terms of a concentration in mass ppm of magnesium [Mg] in the lubricating oil composition, and the amount of component (B) is in the range of 500 to 1500 mass ppm in terms of a concentration in mass ppm of molybdenum [Mo] in the lubricating oil composition.

IPC 8 full level
C10M 169/04 (2006.01); **C10M 135/18** (2006.01); **C10M 141/12** (2006.01); **C10M 159/22** (2006.01); **C10M 163/00** (2006.01);
C10N 10/04 (2006.01); **C10N 10/12** (2006.01); **C10N 20/02** (2006.01); **C10N 30/02** (2006.01); **C10N 30/06** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP US)
C10M 135/18 (2013.01 - US); **C10M 141/12** (2013.01 - US); **C10M 159/22** (2013.01 - US); **C10M 159/24** (2013.01 - US);
C10M 163/00 (2013.01 - EP US); **C10M 2207/026** (2013.01 - EP US); **C10M 2207/028** (2013.01 - US); **C10M 2209/084** (2013.01 - EP US);
C10M 2215/28 (2013.01 - EP US); **C10M 2219/046** (2013.01 - EP US); **C10M 2219/068** (2013.01 - EP US); **C10M 2223/045** (2013.01 - EP US);
C10N 2010/04 (2013.01 - EP US); **C10N 2010/12** (2013.01 - EP US); **C10N 2030/02** (2013.01 - EP US); **C10N 2030/04** (2013.01 - EP US);
C10N 2030/06 (2013.01 - EP US); **C10N 2040/255** (2020.05 - EP US)

Citation (search report)
• [E] EP 3275980 A1 20180131 - IDEMITSU KOSAN CO [JP]
• [X] US 2009082233 A1 20090326 - KASAI MORITSUGU [JP]
• [XY] US 5658862 A 19970819 - VRAHOPOULOU ELISAVET P [US]
• [YA] EP 2610333 A1 20130703 - CHEVRON JAPAN LTD [JP]
• See references of WO 2017099140A1

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 3388500 A1 20181017; **EP 3388500 A4 20190501**; CN 108699480 A 20181023; JP 2017105875 A 20170615; JP 6235549 B2 20171122;
SG 11201804612X A 20180628; US 2018355272 A1 20181213; WO 2017099140 A1 20170615

DOCDB simple family (application)
EP 16873033 A 20161207; CN 201680071610 A 20161207; JP 2015238499 A 20151207; JP 2016086429 W 20161207;
SG 11201804612X A 20161207; US 201616060340 A 20161207