

Title (en)  
ENGINE OIL COMPOSITION

Title (de)  
MOTORÖLZUSAMMENSETZUNG

Title (fr)  
COMPOSITION D'HUILE POUR MOTEUR

Publication  
**EP 2878655 A4 20160309 (EN)**

Application  
**EP 13822656 A 20130724**

Priority  
• JP 2012163619 A 20120724  
• JP 2013070096 W 20130724

Abstract (en)  
[origin: EP2878655A1] An engine oil composition comprising: a lubricating base oil having a kinematic viscosity at 100°C of 1 to 5 mm<sup>2</sup>/s; a poly(meth)acrylate viscosity index improver containing a structural unit represented by the formula (1) in a proportion of 30 to 90 mol% and having a PSSI in an ultrasonic shear test of 15 or less; and a friction modifier, the engine oil composition has a kinematic viscosity at 100°C of 4 to 8 mm<sup>2</sup>/s, and an HTHS viscosity at 150°C of less than 2.6 mPa·s: [wherein R 1 represents hydrogen or a methyl group; and R 2 represents a linear or branched hydrocarbon group having a carbon number of 6 or less]:

IPC 8 full level  
**C10M 145/14** (2006.01); **C10M 139/00** (2006.01); **C10M 161/00** (2006.01); **C10N 10/12** (2006.01); **C10N 20/02** (2006.01); **C10N 20/04** (2006.01); **C10N 30/00** (2006.01); **C10N 30/02** (2006.01); **C10N 30/06** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP US)  
**C10M 145/14** (2013.01 - EP US); **C10M 161/00** (2013.01 - EP US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2203/1025** (2013.01 - EP US); **C10M 2207/289** (2013.01 - EP US); **C10M 2209/084** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2217/022** (2013.01 - EP US); **C10M 2217/023** (2013.01 - EP US); **C10M 2217/028** (2013.01 - EP US); **C10M 2219/068** (2013.01 - EP US); **C10M 2223/045** (2013.01 - EP US); **C10N 2010/12** (2013.01 - EP US); **C10N 2020/02** (2013.01 - EP US); **C10N 2020/073** (2020.05 - EP US); **C10N 2030/02** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2030/54** (2020.05 - EP US); **C10N 2030/68** (2020.05 - EP US); **C10N 2040/25** (2013.01 - EP US); **C10N 2040/252** (2020.05 - EP US)

Citation (search report)  
• [YP] EP 2522709 A1 20121114 - JX NIPPON OIL & ENERGY CORP [JP] & WO 2011083601 A1 20110714 - JX NIPPON OIL & ENERGY CORP [JP], et al  
• [Y] US 2010190671 A1 20100729 - STOEHR TORSTEN [DE], et al  
• See references of WO 2014017557A1

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 2878655 A1 20150603**; **EP 2878655 A4 20160309**; **EP 2878655 B1 20180919**; CN 104508097 A 20150408; JP 2017002314 A 20170105; JP 5984937 B2 20160906; JP WO2014017557 A1 20160711; US 2015197705 A1 20150716; WO 2014017557 A1 20140130

DOCDB simple family (application)  
**EP 13822656 A 20130724**; CN 201380038893 A 20130724; JP 2013070096 W 20130724; JP 2014526980 A 20130724; JP 2016152255 A 20160802; US 201314415389 A 20130724