

Title (en)
LUBRICATING OIL COMPOSITION FOR SHOCK ABSORBER

Title (de)
SCHMIERÖLZUSAMMENSETZUNG FÜR STOSSDÄMPFER

Title (fr)
COMPOSITION D'HUILE LUBRIFIANTE POUR AMORTISSEUR

Publication
EP 3037507 A4 20170208 (EN)

Application
EP 14838669 A 20140825

Priority
• JP 2013173918 A 20130823
• JP 2014072187 W 20140825

Abstract (en)
[origin: EP3037507A1] The lubricating oil composition for a shock absorber of the present invention contains (A) a base oil containing a mineral oil and/or a synthetic oil, (B) a tertiary amine represented by the following general formula (I), (C) a zinc dithiophosphate represented by the following general formula (II), and (D) a phosphorus acid ester amine salt, wherein R 1 and R 2 each independently represent an aliphatic hydrocarbon group having from 1 to 5 carbon atoms, and R 3 represents an aliphatic hydrocarbon group having from 12 to 24 carbon atoms, in the general formula (I), wherein R 4 to R 7 each independently represent one selected from an alkyl group and an alkenyl group each having from 1 to 24 carbon atoms, in the general formula (II).

IPC 8 full level
C10M 141/10 (2006.01); **C10M 133/06** (2006.01); **C10M 137/08** (2006.01); **C10M 137/10** (2006.01); **C10N 30/04** (2006.01); **C10N 30/06** (2006.01); **C10N 40/06** (2006.01)

CPC (source: EP US)
C10M 141/10 (2013.01 - EP US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2203/1025** (2013.01 - EP US); **C10M 2207/026** (2013.01 - EP US); **C10M 2207/289** (2013.01 - EP US); **C10M 2209/084** (2013.01 - EP US); **C10M 2215/04** (2013.01 - EP US); **C10M 2215/082** (2013.01 - EP US); **C10M 2219/106** (2013.01 - EP US); **C10M 2223/041** (2013.01 - EP US); **C10M 2223/043** (2013.01 - EP US); **C10M 2223/045** (2013.01 - EP US); **C10M 2223/049** (2013.01 - EP US); **C10M 2223/065** (2013.01 - EP US); **C10M 2229/02** (2013.01 - EP US); **C10N 2010/04** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2030/10** (2013.01 - US); **C10N 2030/36** (2020.05 - EP US); **C10N 2040/08** (2013.01 - EP US)

C-Set (source: EP US)
C10M 2203/1025 + **C10N 2020/02**

Citation (search report)
• [Y] EP 2169037 A1 20100331 - IDEMITSU KOSAN CO [JP]
• [Y] WO 2008095966 A1 20080814 - SHELL INT RESEARCH [NL], et al
• See references of WO 2015025977A1

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 3037507 A1 20160629; EP 3037507 A4 20170208; EP 3037507 B1 20220629; CN 105473693 A 20160406; CN 105473693 B 20190402; JP 6353840 B2 20180704; JP WO2015025977 A1 20170302; KR 20160042910 A 20160420; US 2016369200 A1 20161222; WO 2015025977 A1 20150226

DOCDB simple family (application)
EP 14838669 A 20140825; CN 201480046145 A 20140825; JP 2014072187 W 20140825; JP 2015532932 A 20140825; KR 20167004385 A 20140825; US 201414910845 A 20140825