

Title (en)
LUBRICANT COMPOSITION

Title (de)
SCHMIERMITTELZUSAMMENSETZUNG

Title (fr)
COMPOSITION LUBRIFIANTE

Publication
EP 4119642 A4 20240403 (EN)

Application
EP 21768257 A 20210311

Priority
• JP 2020044225 A 20200313
• JP 2021009859 W 20210311

Abstract (en)
[origin: EP4119642A1] The present invention relates to a lubricating oil composition which has a low viscosity, and exhibits a low evaporativity, an excellent oil film retainability, and an excellent cleanliness at high temperature. To this end, the present invention provides a lubricating oil composition including a base oil (A) containing an olefin-based polymer (A1), a viscosity index improver (B), and an imide-based dispersant (C), in which a first olefin-based polymer (A1-1) having a kinematic viscosity at 100°C of 3.0 mm²/s or more is contained as the olefin-based polymer (A1), and a content of the first olefin-based polymer (A1-1) is 30% by mass or more based on a total amount of the base oil (A), a second olefin-based polymer (A1-2) having a kinematic viscosity at 100°C of less than 3.0 mm²/s is not contained as the olefin-based polymer (A1), or is contained in a content of less than 18.5% by mass based on the total amount of the base oil (A), a content of a resin component (B1) derived from the viscosity index improver (B) is 0.01% by mass or more based on a total amount of the lubricant composition, a content of nitrogen atoms derived from the imide-based dispersant (C) is 0.06% by mass or more based on the total amount of the lubricant composition, a content ratio of the resin component (B1) derived from the viscosity index improver (B) and the first olefin-based polymer (A1-1) [(B1)/(A1-1)] is more than 0.001 in terms of a mass ratio, the kinematic viscosity at 100°C is 5.0 mm²/s or more and less than 7.1 mm²/s, and an aniline point is 95°C or higher.

IPC 8 full level
C10M 169/04 (2006.01); **C10M 101/02** (2006.01); **C10M 107/02** (2006.01); **C10M 133/56** (2006.01); **C10M 137/10** (2006.01); **C10N 20/00** (2006.01); **C10N 20/02** (2006.01); **C10N 20/04** (2006.01); **C10N 30/00** (2006.01); **C10N 30/02** (2006.01); **C10N 30/04** (2006.01); **C10N 30/06** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP US)
C10M 137/10 (2013.01 - US); **C10M 169/02** (2013.01 - US); **C10M 169/04** (2013.01 - EP US); **C10M 171/02** (2013.01 - US); **C10M 171/04** (2013.01 - US); **C10M 2201/085** (2013.01 - US); **C10M 2203/1025** (2013.01 - EP); **C10M 2205/003** (2013.01 - US); **C10M 2205/0285** (2013.01 - EP); **C10M 2207/262** (2013.01 - EP); **C10M 2215/28** (2013.01 - EP); **C10M 2223/045** (2013.01 - EP); **C10M 2290/10** (2013.01 - US); **C10N 2010/04** (2013.01 - US); **C10N 2020/02** (2013.01 - EP US); **C10N 2020/04** (2013.01 - EP US); **C10N 2020/071** (2020.05 - EP); **C10N 2030/02** (2013.01 - EP); **C10N 2030/04** (2013.01 - EP); **C10N 2030/06** (2013.01 - EP); **C10N 2030/74** (2020.05 - EP); **C10N 2040/02** (2013.01 - US); **C10N 2040/25** (2013.01 - EP US)

Citation (search report)
• [I] EP 2966153 A1 20160113 - IDEMITSU KOSAN CO [JP]
• [IP] EP 3666862 A1 20200617 - IDEMITSU KOSAN CO [JP]
• See also references of WO 2021182580A1

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 4119642 A1 20230118; **EP 4119642 A4 20240403**; CN 115210346 A 20221018; JP WO2021182580 A1 20210916; US 2023115470 A1 20230413; WO 2021182580 A1 20210916

DOCDB simple family (application)
EP 21768257 A 20210311; CN 202180020818 A 20210311; JP 2021009859 W 20210311; JP 2022507280 A 20210311; US 202117906164 A 20210311