

Title (en)
LUBRICATING OIL COMPOSITION

Title (de)
SCHMIERÖLZUSAMMENSETZUNG

Title (fr)
COMPOSITION D'HUILE LUBRIFIANTE

Publication
EP 2535398 A4 20130814 (EN)

Application
EP 10845798 A 20101117

Priority
• JP 2010026545 A 20100209
• JP 2010070427 W 20101117

Abstract (en)
[origin: EP2535398A1] A lubricating oil composition contains (A) a base oil for a lubricating oil in a range of 5 mass% to 70 mass% based on a total amount of the composition, the base oil containing a sulfur content of 0.03 mass% or less and having a kinematic viscosity at 100 degrees C in a range of 0.5 mm²/s to 1.5 mm²/s, and (B) a poly-alpha-olefin in a range of 15 mass% to 30 mass% based on the total amount of the composition, the poly-alpha-olefin having a kinematic viscosity at 100 degrees C of 150 mm²/s or more.

IPC 8 full level
C10M 169/04 (2006.01); **C10M 101/02** (2006.01); **C10M 107/02** (2006.01); **C10M 111/04** (2006.01); **C10M 143/00** (2006.01); **C10M 145/14** (2006.01); **C10M 155/02** (2006.01); **F16H 57/04** (2010.01); **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 40/04** (2006.01)

CPC (source: EP KR US)
C10M 101/02 (2013.01 - KR); **C10M 107/02** (2013.01 - KR); **C10M 111/04** (2013.01 - EP US); **C10M 143/00** (2013.01 - KR); **C10M 169/04** (2013.01 - EP KR US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2205/0285** (2013.01 - EP US); **C10M 2207/281** (2013.01 - EP US); **C10M 2209/084** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2219/046** (2013.01 - EP US); **C10M 2219/08** (2013.01 - EP US); **C10M 2223/04** (2013.01 - EP US); **C10M 2223/047** (2013.01 - EP US); **C10M 2229/025** (2013.01 - EP US); **C10M 2229/0415** (2013.01 - EP US); **C10N 2020/02** (2013.01 - EP US); **C10N 2020/04** (2013.01 - EP US); **C10N 2030/02** (2013.01 - EP US); **C10N 2030/68** (2020.05 - EP US); **C10N 2040/04** (2013.01 - EP US)

Citation (search report)
• [XY] US 2005059563 A1 20050317 - SULLIVAN WILLIAM T [US], et al
• [A] US 5146021 A 19920908 - JACKSON ANDREW [US], et al
• [Y] "ShinEtsu, Silicone Fluid KF-96, Performance Test Results", 1 January 2004 (2004-01-01), XP055069324, Retrieved from the Internet <URL:http://www.silicone.jp/e/catalog/pdf/kf96_e.pdf> [retrieved on 20130703]
• [Y] RONALD L SHUBKIN: "Polyalphaolefins", CRC HANDBOOK OF LUBRICATION AND TRIBOLOGY: THEORY OF TRIBOLOGY,, 1 January 1993 (1993-01-01), pages 219 - 236, XP009108705
• [Y] JUKIC ET AL: "Polyolefin and Polymethacrylate mixed additives as mineral oil rheology modifier", LUBRICATION SCIENCE 17,4, 1 August 2005 (2005-08-01), pages 431 - 449, XP055069349, Retrieved from the Internet <URL:http://dfpcorec-p.internal.epo.org/wf/storage/13FA421883500017177/originalPdf> [retrieved on 20130703]
• See references of WO 2011099207A1

Cited by
EP2537914A4; US9725672B2; WO2015117804A1

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