

Title (en)

LUBRICANT COMPOSITION WITH AN IMPROVED VISCOSITY CHARACTERISTIC AT LOW OPERATING TEMPERATURE

Title (de)

SCHMIERMITTELZUSAMMENSETZUNG MIT VERBESSERTER VISKOSITÄTSEIGENSCHAFT BEI NIEDRIGER BETRIEBSTEMPERATUR

Title (fr)

COMPOSITION DE LUBRIFIANT AVEC UNE CARACTÉRISTIQUE DE VISCOSITÉ AMÉLIORÉE À BASSE TEMPÉRATURE D'UTILISATION

Publication

EP 3535357 B1 20201216 (EN)

Application

EP 17787940 A 20171027

Priority

- EP 16196796 A 20161102
- EP 2017077605 W 20171027

Abstract (en)

[origin: WO2018083027A1] The invention relates to a lubricant composition comprising a comb polymer and a synthetic base oil. The lubricant composition has improved viscosity characteristics at low operating temperatures. The invention also relates to the use of a comb polymer for producing a lubricant having an R-factor of less than or equal to 8, wherein the R-factor is defined as the ratio of the kinematic viscosity at -20°C and the kinematic viscosity at +20°C.

IPC 8 full level

C10M 145/14 (2006.01); **C10M 107/28** (2006.01); **C10M 169/04** (2006.01); **C10N 20/00** (2006.01); **C10N 30/02** (2006.01); **C10N 30/08** (2006.01)

CPC (source: EP KR RU US)

C10M 107/02 (2013.01 - US); **C10M 107/28** (2013.01 - EP KR US); **C10M 143/10** (2013.01 - US); **C10M 143/12** (2013.01 - US);
C10M 145/14 (2013.01 - EP KR RU US); **C10M 145/32** (2013.01 - US); **C10M 169/04** (2013.01 - RU); **C10M 169/041** (2013.01 - EP KR US);
C10M 2205/028 (2013.01 - EP KR US); C10M 2205/0285 (2013.01 - EP KR US); C10M 2205/04 (2013.01 - EP KR US);
C10M 2205/043 (2013.01 - EP KR US); C10M 2205/06 (2013.01 - US); C10M 2209/084 (2013.01 - EP KR US);
C10M 2209/0845 (2013.01 - EP KR US); C10N 2020/02 (2013.01 - US); C10N 2020/04 (2013.01 - EP KR US);
C10N 2020/071 (2020.05 - EP KR US); C10N 2030/02 (2013.01 - EP KR US); C10N 2030/08 (2013.01 - EP KR US)

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)

WO 2018083027 A1 20180511; CA 3042119 A1 20180511; CN 109923195 A 20190621; CN 109923195 B 20221011; EP 3535357 A1 20190911;
EP 3535357 B1 20201216; ES 2854939 T3 20210923; JP 2019535858 A 20191212; JP 6890658 B2 20210618; KR 102455761 B1 20221019;
KR 20190080918 A 20190708; RU 2019116232 A 20201203; RU 2019116232 A3 20201203; RU 2747727 C2 20210513;
SG 11201903781Q A 20190530; US 2019300808 A1 20191003

DOCDB simple family (application)

EP 2017077605 W 20171027; CA 3042119 A 20171027; CN 201780067603 A 20171027; EP 17787940 A 20171027; ES 17787940 T 20171027;
JP 2019522683 A 20171027; KR 20197015692 A 20171027; RU 2019116232 A 20171027; SG 11201903781Q A 20171027;
US 201716345260 A 20171027