

Title (en)
LUBRICANT COMPOSITION FOR LIMITING FRICTION

Title (de)
SCHMIERMITTELZUSAMMENSETZUNG ZUR REIBUNGSBEGRENZUNG

Title (fr)
COMPOSITION LUBRIFIANTE POUR LIMITER LE FROTTEMENT

Publication
EP 4073212 A1 20221019 (FR)

Application
EP 20824535 A 20201211

Priority
• FR 1914410 A 20191213
• EP 2020085748 W 20201211

Abstract (en)
[origin: WO2021116401A1] The present application relates to a lubricant composition comprising, based on the total weight of the lubricant composition: - at least one base oil; - 0.005 to 10% by weight of at least one polymeric organic friction modifier; and - 0.005 to 10% by weight of at least one ester which is a product of the esterification reaction between a saturated or unsaturated, linear, cyclic or branched monoalcohol having 1 to 10 carbon atoms and a polycarboxylic acid or between a linear, cyclic or branched polyol and a saturated or unsaturated, linear, cyclic or branched monocarboxylic acid having 1 to 10 carbon atoms, said polymeric organic friction modifier is a compound of formula (I): $R_1 - [(AO)_n - AO - R_2]_m$ (I), wherein R1 is a residue of a group having at least m hydrogen atoms, m being greater than 2; AO is an alkylene oxide residue; n is between 0 and 100; R2 is a hydrogen atom or a C-(O)-R3 group, where R3 is a residue selected from the list consisting of a polyhydroxyalkyl carboxylic acid residue, a polyhydroxyalkenyl carboxylic acid residue, a hydroxyalkyl carboxylic acid residue, a hydroxyalkenyl carboxylic acid residue, a hydroxyalkyl carboxylic acid oligomer residue and a hydroxyalkenyl carboxylic acid oligomer residue; and wherein on average at least two R2 groups are acyl.

IPC 8 full level
C10M 161/00 (2006.01); **C10N 20/04** (2006.01); **C10N 30/06** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP KR US)
C10M 161/00 (2013.01 - EP KR US); **C10M 169/04** (2013.01 - KR); **C10M 2203/1025** (2013.01 - EP KR); **C10M 2207/282** (2013.01 - EP KR US); **C10M 2207/283** (2013.01 - EP KR US); **C10M 2209/104** (2013.01 - EP KR); **C10M 2209/105** (2013.01 - EP KR); **C10M 2209/109** (2013.01 - EP KR US); **C10N 2020/04** (2013.01 - EP KR US); **C10N 2030/06** (2013.01 - EP KR US); **C10N 2040/25** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2021116401A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2021116401 A1 20210617; CN 115052960 A 20220913; EP 4073212 A1 20221019; FR 3104608 A1 20210618; FR 3104608 B1 20211224; JP 2023505729 A 20230210; KR 20220112829 A 20220811; US 2023024398 A1 20230126

DOCDB simple family (application)
EP 2020085748 W 20201211; CN 202080086323 A 20201211; EP 20824535 A 20201211; FR 1914410 A 20191213; JP 2022536505 A 20201211; KR 20227023894 A 20201211; US 202017784702 A 20201211