

Title (en)
LUBRICATING COMPOSITION

Title (de)
SCHMIERMITTELZUSAMMENSETZUNG

Title (fr)
COMPOSITION LUBRIFIANTE

Publication
EP 3615641 A1 20200304 (EN)

Application
EP 18724139 A 20180418

Priority
• EP 17168538 A 20170427
• EP 2018059960 W 20180418

Abstract (en)
[origin: WO2018197312A1] Use of a nitrogen-containing ashless dispersant in a lubricating composition for the purpose of reducing wear in the presence of ZDTP and soot wherein the nitrogen-containing ashless dispersant has a Functionality (F) of greater than 1.4.

IPC 8 full level
C10M 141/10 (2006.01)

CPC (source: EP RU US)
C10M 133/56 (2013.01 - US); **C10M 141/10** (2013.01 - EP RU); **C10M 141/12** (2013.01 - RU); **C10M 169/04** (2013.01 - RU);
C10M 2201/041 (2013.01 - EP); **C10M 2203/003** (2013.01 - US); **C10M 2205/173** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US);
C10M 2223/045 (2013.01 - EP US); **C10N 2030/041** (2020.05 - US); **C10N 2030/06** (2013.01 - EP US); **C10N 2040/25** (2013.01 - EP US)

Citation (search report)
See references of WO 2018197312A1

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 2018197312 A1 20181101; BR 112019022507 A2 20200512; BR 112019022507 B1 20221213; CN 110546243 A 20191206;
CN 110546243 B 20220923; EP 3615641 A1 20200304; EP 3615641 B1 20220413; JP 2020517787 A 20200618; RU 2019138210 A 20210527;
RU 2019138210 A3 20210816; RU 2768169 C2 20220323; US 2020095516 A1 20200326

DOCDB simple family (application)
EP 2018059960 W 20180418; BR 112019022507 A 20180418; CN 201880026896 A 20180418; EP 18724139 A 20180418;
JP 2019557584 A 20180418; RU 2019138210 A 20180418; US 201816607927 A 20180418