

Title (en)

LUBRICATING COMPOSITIONS HAVING A MIXED DISPERSANT ADDITIVE PACKAGE

Title (de)

SCHMIERMITTELZUSAMMENSETZUNGEN MIT GEMISCHTEM DISPERGIERMITTELADDITIVPAKET

Title (fr)

COMPOSITIONS LUBRIFIANTES COMPRENANT UN MÉLANGE D'ADDITIFS DISPERSANTS

Publication

EP 3894526 A1 20211020 (EN)

Application

EP 19828514 A 20191210

Priority

- US 201862777470 P 20181210
- US 2019065364 W 20191210

Abstract (en)

[origin: WO2020123438A1] The instant disclosure generally relates to lubricating compositions having an oil of lubricating viscosity and a mixed dispersant additive package. The mixed dispersant additive package can include an acylated poly(1-olefin)-based dispersant and a polyisobutylene succinimide dispersant where the ratio of the acylated poly(1-olefin)-based dispersant to the polyisobutylene succinimide dispersant in the lubricating composition is from 3:1 to 1: 3.

IPC 8 full level

C10M 133/52 (2006.01); **C10M 169/04** (2006.01)

CPC (source: EP US)

C10M 133/52 (2013.01 - EP); **C10M 149/02** (2013.01 - US); **C10M 169/041** (2013.01 - US); **C10M 169/048** (2013.01 - EP); **C10M 2203/003** (2013.01 - US); **C10M 2203/1025** (2013.01 - EP); **C10M 2205/0285** (2013.01 - EP); **C10M 2205/04** (2013.01 - EP); **C10M 2207/34** (2013.01 - EP); **C10M 2215/28** (2013.01 - EP); **C10M 2215/30** (2013.01 - EP); **C10M 2217/06** (2013.01 - US); **C10M 2219/046** (2013.01 - EP); **C10M 2219/089** (2013.01 - EP); **C10M 2223/045** (2013.01 - EP); **C10N 2020/04** (2013.01 - EP); **C10N 2030/02** (2013.01 - EP US); **C10N 2030/04** (2013.01 - EP US); **C10N 2030/52** (2020.05 - EP US); **C10N 2030/68** (2020.05 - EP); **C10N 2040/25** (2013.01 - EP); **C10N 2040/255** (2020.05 - US)

Citation (search report)

See references of WO 2020123438A1

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 2020123438 A1 20200618; CA 3122566 A1 20200618; CN 113227334 A 20210806; CN 113227334 B 20221115; EP 3894526 A1 20211020; JP 2022514478 A 20220214; US 2022098509 A1 20220331

DOCDB simple family (application)

US 2019065364 W 20191210; CA 3122566 A 20191210; CN 201980084999 A 20191210; EP 19828514 A 20191210; JP 2021532867 A 20191210; US 201917311916 A 20191210