

Title (en)
METHOD OF LUBRICATING AN AUTOMOTIVE OR INDUSTRIAL GEAR

Title (de)
VERFAHREN ZUR SCHMIERUNG EINES KRAFTFAHRZEUG- ODER INDUSTRIEGETRIEBES

Title (fr)
PROCÉDÉ DE LUBRIFICATION D'UN ENGRENAGE AUTOMOBILE OU INDUSTRIEL

Publication
EP 3884016 A1 20210929 (EN)

Application
EP 19835960 A 20191106

Priority
• US 201862758729 P 20181112
• US 2019060013 W 20191106

Abstract (en)
[origin: WO2020101969A1] The disclosed technology relates to a lubricant composition for automotive or industrial gears, as well as axles and bearings, the lubricant composition containing an oil of lubricating viscosity and a metal alkylthiophosphate compound, such as zinc dialkyldithiophosphate, as well as a method of obtaining extreme pressure performance in automotive or industrial gears, axles and bearings at lower sulfur content than is typical, by lubricating such automotive or industrial gears, axles and bearings with a lubricant composition containing a metal alkylthiophosphate compound, such as zinc dialkyldithiophosphate.

IPC 8 full level
C10M 137/02 (2006.01)

CPC (source: EP US)
C10M 137/02 (2013.01 - EP); **C10M 137/08** (2013.01 - US); **C10M 137/10** (2013.01 - US); **C10M 2205/02** (2013.01 - EP); **C10M 2205/0285** (2013.01 - EP); **C10M 2207/289** (2013.01 - EP); **C10M 2215/223** (2013.01 - EP); **C10M 2215/28** (2013.01 - EP); **C10M 2219/022** (2013.01 - EP); **C10M 2219/106** (2013.01 - EP US); **C10M 2223/04** (2013.01 - EP); **C10M 2223/043** (2013.01 - EP US); **C10M 2223/045** (2013.01 - EP US); **C10M 2223/047** (2013.01 - EP US); **C10N 2010/04** (2013.01 - US); **C10N 2030/06** (2013.01 - EP); **C10N 2030/54** (2020.05 - EP); **C10N 2030/56** (2020.05 - EP US); **C10N 2040/02** (2013.01 - EP US); **C10N 2040/04** (2013.01 - EP US)

Citation (search report)
See references of WO 2020101969A1

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 2020101969 A1 20200522; CA 3119741 A1 20200522; CN 112996888 A 20210618; EP 3884016 A1 20210929; EP 3884016 B1 20230531; EP 4249576 A2 20230927; EP 4249576 A3 20231206; JP 2022513000 A 20220207; US 2021363456 A1 20211125

DOCDB simple family (application)
US 2019060013 W 20191106; CA 3119741 A 20191106; CN 201980073663 A 20191106; EP 19835960 A 20191106; EP 23168061 A 20191106; JP 2021525585 A 20191106; US 201917291412 A 20191106