

Title (en)
LUBRICATING OIL COMPOSITIONS

Title (de)
SCHMIERÖLZUSAMMENSETZUNGEN

Title (fr)
COMPOSITIONS D'HUILE DE LUBRIFICATION

Publication
EP 2977436 B1 20210714 (EN)

Application
EP 15170161 A 20150601

Priority
• EP 14177471 A 20140717
• EP 15170161 A 20150601

Abstract (en)
[origin: EP2977436A1] The use of a polymeric friction modifier as an additive in an effective minor amount in a lubricating oil composition to reduce and/or inhibit the corrosion of the nonferrous metal containing engine components during operation of the engine.

IPC 8 full level
C10M 159/12 (2006.01); **C10M 129/78** (2006.01)

CPC (source: BR EP GB)
C10M 129/78 (2013.01 - EP); **C10M 137/10** (2013.01 - GB); **C10M 145/22** (2013.01 - GB); **C10M 145/38** (2013.01 - GB);
C10M 159/12 (2013.01 - BR EP); **C10M 161/00** (2013.01 - GB); **C10M 163/00** (2013.01 - GB); **C10M 169/04** (2013.01 - BR);
C10M 2203/1006 (2013.01 - EP); **C10M 2205/026** (2013.01 - GB); **C10M 2207/022** (2013.01 - EP); **C10M 2207/30** (2013.01 - EP);
C10M 2209/11 (2013.01 - EP GB); **C10M 2209/111** (2013.01 - EP); **C10M 2209/112** (2013.01 - EP); **C10M 2219/046** (2013.01 - EP);
C10M 2223/045 (2013.01 - EP); **C10N 2010/02** (2013.01 - GB); **C10N 2030/12** (2013.01 - EP GB); **C10N 2030/14** (2013.01 - EP);
C10N 2040/25 (2013.01 - EP GB); **C10N 2040/252** (2020.05 - EP); **C10N 2040/255** (2020.05 - EP)

C-Set (source: EP)
1. **C10M 2207/022 + C10M 2207/126 + C10M 2207/127**
2. **C10M 2207/022 + C10M 2207/126 + C10M 2207/129**

Citation (examination)
US 4209411 A 19800624 - GUTIERREZ ANTONIO [US], et al

Cited by
CN111073728A; US10479953B2

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)
EP 2977436 A1 20160127; EP 2977436 B1 20210714; BR 102015016942 A2 20160119; BR 102015016942 B1 20210518;
CA 2897619 A1 20160117; CA 2897619 C 20230103; CN 105273802 A 20160127; CN 105273802 B 20200612; GB 201509858 D0 20150722;
GB 2528569 A 20160127; GB 2528569 B 20161019; JP 2016023312 A 20160208; JP 6906890 B2 20210721; SG 10201505532T A 20160226

DOCDB simple family (application)
EP 15170161 A 20150601; BR 102015016942 A 20150715; CA 2897619 A 20150717; CN 201510419292 A 20150716;
GB 201509858 A 20150608; JP 2015142726 A 20150717; SG 10201505532T A 20150715