

Title (en)

METHOD OF IMPROVING THE OXIDATIVE STABILITY OF A LUBRICATING COMPOSITION

Title (de)

VERFAHREN ZUR VERBESSERUNG DER OXIDATIVEN STABILITÄT EINER SCHMIERMITTELZUSAMMENSETZUNG

Title (fr)

PROCÉDÉ PERMETTANT D'AMÉLIORER LA STABILITÉ OXYDATIVE D'UNE COMPOSITION LUBRIFIANTE

Publication

EP 3519538 A1 20190807 (EN)

Application

EP 17777580 A 20170929

Priority

- US 201662403320 P 20161003
- EP 2017074884 W 20170929

Abstract (en)

[origin: WO2018065331A1] Method of improving the oxidative stability of a lubricating composition which is used to lubricate a spark ignition internal combustion engine, the spark- ignition engine being comprised within the powertrain of a hybrid electric vehicle, wherein the method comprises the step of introducing into the combustion chamber of the spark-ignition engine a gasoline composition wherein the gasoline composition comprises a hydrocarbon base fuel containing 10 to 20% v olefins, not greater than 5% v olefins of at least 10 carbon atoms, and not greater than 5% v aromatics of at least 10 carbon atoms, based on the base fuel, initial boiling point in the range 30 to 40°C, T10 in the range 45 to 57°C, T50 in the range 82 to 104°C, T90 in the range 140 to 150°C and final boiling point not greater than 220 °C.

IPC 8 full level

C10L 10/00 (2006.01); **C10L 1/16** (2006.01)

CPC (source: EP US)

C10L 1/06 (2013.01 - US); **C10L 1/1824** (2013.01 - EP US); **C10L 1/1832** (2013.01 - EP US); **C10L 10/00** (2013.01 - EP US); **C10L 10/08** (2013.01 - US); **C10L 2200/0423** (2013.01 - EP US); **C10L 2230/081** (2013.01 - EP US); **C10L 2270/023** (2013.01 - EP US); **C10N 2030/78** (2020.05 - EP US); **C10N 2040/255** (2020.05 - EP US)

Citation (search report)

See references of WO 2018065331A1

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 2018065331 A1 20180412; BR 112019006319 A2 20200924; BR 112019006319 B1 20220712; CN 109790479 A 20190521; EP 3519538 A1 20190807; JP 2019533045 A 20191114; JP 2022058477 A 20220412; PH 12019500716 A1 20191202; US 2019249097 A1 20190815; ZA 201901304 B 20201028

DOCDB simple family (application)

EP 2017074884 W 20170929; BR 112019006319 A 20170929; CN 201780060514 A 20170929; EP 17777580 A 20170929; JP 2019517884 A 20170929; JP 2022000118 A 20220104; PH 12019500716 A 20190402; US 201716338538 A 20170929; ZA 201901304 A 20190301