

Title (en)

METHOD FOR REDUCING LOW SPEED PRE-IGNITION

Title (de)

VERFAHREN ZUR VERMINDERUNG VON VORZÜNDUNG MIT NIEDRIGER GESCHWINDIGKEIT

Title (fr)

PROCÉDÉ DE RÉDUCTION DU PRÉ-ALLUMAGE À FAIBLE VITESSE

Publication

EP 3947608 A1 20220209 (EN)

Application

EP 20715818 A 20200327

Priority

- US 201962827535 P 20190401
- EP 2020058745 W 20200327

Abstract (en)

[origin: WO2020201104A1] Use of a gasoline fuel composition for reducing the occurrence of Low Speed Pre-Ignition (LSPI) in a spark-ignition internal combustion engine, wherein the gasoline fuel composition comprises a gasoline base fuel and has a PM Index of 1.4 or less.

IPC 8 full level

C10L 1/06 (2006.01); **C10L 1/16** (2006.01)

CPC (source: EP US)

C10L 1/06 (2013.01 - EP US); **C10M 135/18** (2013.01 - US); **C10M 169/04** (2013.01 - US); **C10M 171/00** (2013.01 - EP); **C10L 2200/0423** (2013.01 - EP US); **C10L 2270/023** (2013.01 - EP US); **C10M 2203/003** (2013.01 - US); **C10M 2219/068** (2013.01 - EP US); **C10N 2010/04** (2013.01 - EP US); **C10N 2010/12** (2013.01 - EP); **C10N 2030/02** (2013.01 - EP); **C10N 2030/06** (2013.01 - US); **C10N 2030/42** (2020.05 - EP); **C10N 2030/43** (2020.05 - EP); **C10N 2040/255** (2020.05 - EP US)

Citation (search report)

See references of WO 2020201104A1

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 2020201104 A1 20201008; CN 113710778 A 20211126; CN 113710778 B 20230523; EP 3947608 A1 20220209; EP 3947608 B1 20230809; JP 2022526585 A 20220525; US 2022356409 A1 20221110

DOCDB simple family (application)

EP 2020058745 W 20200327; CN 202080026383 A 20200327; EP 20715818 A 20200327; JP 2021558914 A 20200327; US 202017441784 A 20200327