

Title (en)

LIGHT-FRACTION BASED FUEL COMPOSITION FOR COMPRESSION IGNITED ENGINES

Title (de)

KRAFTSTOFFZUSAMMENSETZUNG AUF DER GRUNDLAGE VON LEICHTFRAKTION FÜR SELBSTZÜNDUNGSMOTOREN

Title (fr)

COMPOSITION DE CARBURANT À BASE DE FRACTION LÉGÈRE POUR MOTEURS À ALLUMAGE PAR COMPRESSION

Publication

EP 3810730 A1 20210428 (EN)

Application

EP 19735092 A 20190618

Priority

- US 201816013334 A 20180620
- US 2019037678 W 20190618

Abstract (en)

[origin: US2019390127A1] A light fraction fuel composition for compression-ignited engines comprises about 25 v/v % to about 50 v/v % commercial diesel fuel; about 40 v/v % to about 69 v/v % straight run heavy naphtha about 5 v/v % to about 10 v/v % n-butanol; and about 0.2 v/v % to about 1.7 v/v % 2-Ethylhexyl nitrate. The relative percentages of commercial diesel fuel and straight run heavy naphtha are controlled to obtain a cetane number of at least 51 for a selected engine.

IPC 8 full level

C10L 1/10 (2006.01); **C10L 1/16** (2006.01); **C10L 1/182** (2006.01); **C10L 1/23** (2006.01); **C10L 10/02** (2006.01)

CPC (source: EP US)

C10G 7/00 (2013.01 - US); **C10L 1/10** (2013.01 - EP); **C10L 1/1824** (2013.01 - US); **C10L 1/231** (2013.01 - US); **C10L 10/02** (2013.01 - EP); **C10G 2300/307** (2013.01 - US); **C10L 1/08** (2013.01 - US); **C10L 1/1616** (2013.01 - EP); **C10L 1/1824** (2013.01 - EP); **C10L 1/231** (2013.01 - EP); **C10L 2200/0415** (2013.01 - EP); **C10L 2200/0446** (2013.01 - EP US); **C10L 2270/026** (2013.01 - EP US)

Citation (search report)

See references of WO 2019246059A1

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)

US 2019390127 A1 20191226; CN 112218935 A 20210112; EP 3810730 A1 20210428; JP 2021528511 A 20211021; WO 2019246059 A1 20191226

DOCDB simple family (application)

US 201816013334 A 20180620; CN 201980035001 A 20190618; EP 19735092 A 20190618; JP 2020566579 A 20190618; US 2019037678 W 20190618