

Title (en)

ALKOXYLATED AMINES AS FUEL ADDITIVE

Title (de)

ALKOXYLIERTE AMINE ALS KRAFTSTOFFADDITIVE

Title (fr)

DES AMINES ALCOXYLÉES POUR ADDITIFS DE CARBURANT

Publication

EP 3609986 B1 20221012 (DE)

Application

EP 18720112 A 20180403

Priority

- EP 17165955 A 20170411
- EP 2018058398 W 20180403

Abstract (en)

[origin: WO2018188982A1] The invention relates to alkoxyated amines as fuel additives for reducing deposits on injectors in direct-injection gasoline engines.

IPC 8 full level

C10L 1/222 (2006.01); **C10L 1/182** (2006.01); **C10L 1/198** (2006.01); **C10L 1/224** (2006.01); **C10L 1/238** (2006.01); **C10L 1/2383** (2006.01); **C10L 1/2387** (2006.01); **C10L 10/04** (2006.01); **C10L 10/06** (2006.01)

CPC (source: EP US)

C10L 1/2222 (2013.01 - US); **C10L 1/2225** (2013.01 - EP); **C10L 1/238** (2013.01 - EP); **C10L 1/2383** (2013.01 - US); **C10L 1/2387** (2013.01 - EP); **C10L 10/04** (2013.01 - EP US); **C10L 10/06** (2013.01 - EP); **C10L 1/1824** (2013.01 - EP); **C10L 1/1985** (2013.01 - EP); **C10L 1/224** (2013.01 - EP); **C10L 1/2383** (2013.01 - EP); **C10L 2200/0423** (2013.01 - EP US); **C10L 2270/023** (2013.01 - EP US)

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)

WO 2018188982 A1 20181018; AU 2018253240 A1 20191017; CN 110494534 A 20191122; EP 3609986 A1 20200219; EP 3609986 B1 20221012; RU 2019135830 A 20210511; SG 11201909437R A 20191128; US 11130923 B2 20210928; US 2020102515 A1 20200402

DOCDB simple family (application)

EP 2018058398 W 20180403; AU 2018253240 A 20180403; CN 201880024371 A 20180403; EP 18720112 A 20180403; RU 2019135830 A 20180403; SG 11201909437R A 20180403; US 201816500632 A 20180403