

Title (en)

COPOLYMERS AS ADDITIVES FOR FUELS AND LUBRICANTS

Title (de)

COPOLYMERE ALS ADDITIVE FÜR KRAFT- UND SCHMIERSTOFFE

Title (fr)

COPOLYMÈRES UTILISÉS EN TANT QU'ADDITIFS POUR CARBURANTS ET LUBRIFIANTS

Publication

**EP 3481921 A1 20190515 (DE)**

Application

**EP 17734115 A 20170704**

Priority

- EP 16178310 A 20160707
- EP 2017066619 W 20170704

Abstract (en)

[origin: WO2018007375A1] The present invention relates to novel uses of copolymers for removing and/or reducing deposits in the fuel system and/or injection system of direct-injection diesel and/or gasoline engines.

IPC 8 full level

**C10L 1/196** (2006.01); **C10L 10/18** (2006.01)

CPC (source: EP US)

**C10L 1/1966** (2013.01 - EP US); **C10L 10/04** (2013.01 - US); **C10L 10/18** (2013.01 - EP US); **C10M 145/14** (2013.01 - US); **C10L 2200/0423** (2013.01 - US); **C10L 2200/043** (2013.01 - US); **C10L 2200/0446** (2013.01 - EP US); **C10L 2200/0476** (2013.01 - US); **C10L 2200/0484** (2013.01 - US); **C10L 2250/04** (2013.01 - US); **C10L 2270/023** (2013.01 - US); **C10L 2270/026** (2013.01 - US); **C10L 2270/04** (2013.01 - US); **C10M 2205/028** (2013.01 - EP US); **C10M 2209/084** (2013.01 - EP US); **C10M 2209/086** (2013.01 - EP US); **C10N 2030/04** (2013.01 - EP US); **C10N 2040/25** (2013.01 - EP US); **C10N 2040/252** (2020.05 - US); **C10N 2040/255** (2020.05 - US); **F02B 79/00** (2013.01 - US); **F02B 2201/02** (2013.01 - US); **F02B 2275/14** (2013.01 - US)

Citation (search report)

See references of WO 2018007375A1

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 2018007375 A1 20180111**; CN 109312242 A 20190205; EP 3481921 A1 20190515; EP 3481921 B1 20230426; US 2019249099 A1 20190815

DOCDB simple family (application)

**EP 2017066619 W 20170704**; CN 201780038811 A 20170704; EP 17734115 A 20170704; US 201716315502 A 20170704