

Title (en)
DETERGENT ADDITIVE FOR FUEL

Title (de)
REINIGUNGSMITTELADDITIV FÜR KRAFTSTOFF

Title (fr)
ADDITIF DÉTERGENT POUR CARBURANT

Publication
EP 3394225 A1 20181031 (FR)

Application
EP 16826402 A 20161219

Priority

- FR 1563098 A 20151222
- FR 2016053556 W 20161219

Abstract (en)
[origin: WO2017109368A1] The invention relates to the use of one or more copolymers as a detergent additive in a liquid fuel for internal combustion engines. The copolymer comprises at least one repeat unit having an ester of alkyl or alkyl ester function and a repeat unit containing a nitrile group.

IPC 8 full level
C10L 1/196 (2006.01); **C10L 1/236** (2006.01); **C10L 10/18** (2006.01)

CPC (source: EP US)
C10L 1/2362 (2013.01 - EP US); **C10L 10/02** (2013.01 - EP US); **C10L 10/04** (2013.01 - EP US); **C10L 10/06** (2013.01 - EP US); **C10L 10/18** (2013.01 - EP US); **F02B 77/04** (2013.01 - US); **F02M 65/007** (2013.01 - US); **C10L 2200/0423** (2013.01 - EP US); **C10L 2200/0446** (2013.01 - EP US); **C10L 2230/22** (2013.01 - US); **C10L 2250/04** (2013.01 - US); **C10L 2270/023** (2013.01 - EP US); **C10L 2270/026** (2013.01 - EP US)

Citation (search report)
See references of WO 2017109368A1

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)
FR 3045656 A1 20170623; EP 3394225 A1 20181031; US 2019002780 A1 20190103; WO 2017109368 A1 20170629

DOCDB simple family (application)
FR 1563098 A 20151222; EP 16826402 A 20161219; FR 2016053556 W 20161219; US 201616065252 A 20161219