

Title (en)

Use of monocarboxylic acids to improve the electrical conductivity of a fuel oil composition

Title (de)

Verwendung von Monocarbonsäuren zur Verbesserung der elektrischen Leitfähigkeit einer Brennstoffölszusammensetzung

Title (fr)

Utilisation d'acides monocarboxyliques pour améliorer la conductibilité d'une composition d'huile combustible

Publication

**EP 1408101 A1 20040414 (EN)**

Application

**EP 03255525 A 20030904**

Priority

- EP 03255525 A 20030904
- EP 02256993 A 20021004

Abstract (en)

A fuel additive composition comprises additive containing 10-24C monocarboxylic acids or their derivatives, with less than 7 (preferably less than 1) mass % of the acids having linear chain and saturated, and the balance being unsaturated. At least 35 (preferably 40-85) mass% of the balance are polyunsaturated. The composition is free of polycyclic carboxylic acids or their derivatives. An independent claim is also included for a fuel oil composition comprising fuel oil, e.g. distillate oil, and the additive composition.

IPC 1-7

**C10L 1/18; C10L 1/14**

IPC 8 full level

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CPC (source: EP)

**C10L 1/14** (2013.01); **C10L 1/1881** (2013.01)

Citation (applicant)

- WO 9417160 A1 19940804 - EXXON CHEMICAL PATENTS INC [US], et al
- EP 0773279 A1 19970514 - ETHYL PETROLEUM ADDITIVES LTD [GB]
- EP 0839174 A1 19980506 - EXXON CHEMICAL PATENTS INC [US]
- WO 0138463 A1 20010531 - BASF AG [DE], et al
- EP 0773278 A1 19970514 - ETHYL PETROLEUM ADDITIVES LTD [GB]
- WO 0104239 A1 20010118 - LUBRIZOL CORP [US]
- WO 9900467 A1 19990107 - BAKER HUGHES INC [US]
- WO 0151593 A1 20010719 - CAMFIN S P A [IT], et al
- WO 0119941 A1 20010322 - FINA RESEARCH [BE], et al
- WO 0155282 A1 20010802 - BASF AG [DE], et al
- WO 0181512 A2 20011101 - BAKER HUGHES INC [US]
- WO 9817745 A1 19980430 - HAZEL CLIFFORD JAMES [GB], et al
- US 5071445 A 19911210 - OPPENLAENDER KNUT [DE], et al
- WO 0015740 A1 20000323 - LUBRIZOL CORP [US]
- WO 9734969 A1 19970925 - ECOTEC FRANCE [FR], et al
- WO 0031216 A1 20000602 - PURE ENERGY CORP [US]
- WO 0248294 A1 20020620 - AKZO NOBEL NV [NL], et al
- KIRK-OTHEMER: "Encyclopaedia of Chemical Technology", vol. 22, pages: 531 - 541
- KIRK-OTHEMER: "Encyclopaedia of Chemical Technology", vol. 22, pages: 531 - 541

Citation (search report)

- [XD] WO 9704044 A1 19970206 - EXXON CHEMICAL PATENTS INC [US], et al
- [XD] WO 0188064 A2 20011122 - LUBRIZOL CORP [US], et al
- [X] US 4248182 A 19810203 - MALEC ROBERT E
- [X] EP 0635558 A1 19950125 - EURON SPA [IT]
- [A] GB 883861 A 19611206 - ATLAS POWDER CO

Cited by

RU2694884C1; EP3272837A1; US7841585B2; US8926716B2; WO2008046900A1; WO2008046901A1

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