

Title (en)

Composition and process for inhibiting and removing carbonaceous deposits.

Title (de)

Zusammensetzung und Verfahren um kohlenhaltige Niederschläge zu verhindern und entfernen.

Title (fr)

Composition et procédé pour empêcher et enlever des dépôts carbonés.

Publication

EP 0487255 A1 19920527 (EN)

Application

EP 91310512 A 19911114

Priority

GB 9025387 A 19901122

Abstract (en)

A hydrocarbon fuel composition suitable for an internal combustion engine comprises a hydrocarbon fuel and as a cleaning agent for carbonaceous deposits a compound selected from 1-(3-aminopropyl)-2-pyrrolidinone, 1-(3 aminopropyl) imidazole, N-hydroxyethyl imidazolidinone, N-aminoethyl-imidazolidinone and 2-(2-aminoethylamino) ethanol. The fuel can be a gasoline and include a carrier in which the cleaning agent is first dispersed before blending with the fuel. The carrier can be a lubricating oil, a polyether or a polymer of a C2 to C6 monoolefin.

IPC 1-7

C10L 1/14; **C10L 1/22**; **C10L 10/06**

IPC 8 full level

C10L 1/14 (2006.01); **C10L 1/222** (2006.01); **C10L 1/232** (2006.01); **C10L 10/06** (2006.01); **C10L 1/16** (2006.01); **C10L 1/18** (2006.01); **C10L 1/22** (2006.01)

CPC (source: EP)

C10L 1/14 (2013.01); **C10L 1/143** (2013.01); **C10L 1/2225** (2013.01); **C10L 1/232** (2013.01); **C10L 10/06** (2013.01); **C10L 1/1608** (2013.01); **C10L 1/1616** (2013.01); **C10L 1/1641** (2013.01); **C10L 1/1824** (2013.01); **C10L 1/1852** (2013.01); **C10L 1/1985** (2013.01)

Citation (search report)

- [A] US 3734865 A 19730522 - HEIBA E, et al
- [AD] US 2956910 A 19601018 - GIAMMARIA JOHN J
- [AD] US 3144311 A 19640811 - ARMSTRONG JACK W, et al
- [A] US 3139330 A 19640630 - MALEC ROBERT E
- [A] US 3655351 A 19720411 - JAMIESON ERNEST J
- [A] DE 1115519 B 19611019 - BASF AG
- [A] US 2839371 A 19580617 - SIGWORTH HARRISON W, et al
- [A] US 4224180 A 19800923 - SUJDAK RICHARD J

Cited by

EP0608981A3; EP0757092A1; US5730762A; DE4328276A1; US5516277A; DE4328276C2; US7226489B2; US7204863B2; WO0121739A1; WO03050212A3; WO2015059206A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0487255 A1 19920527; AU 8794091 A 19920528; GB 9025387 D0 19910109; NZ 240685 A 19930326

DOCDB simple family (application)

EP 91310512 A 19911114; AU 8794091 A 19911119; GB 9025387 A 19901122; NZ 24068591 A 19911121